

57004259

Winther, Jan-Gunnar.

Klima i fokus [Climate in focus]: *in 75 ar for Norge*; Norsk Polarinstitutt jubilerer (Orheim, Olav, prefacer), Norsk Polarinstitutt, Tromso, Norway, p. 28-32, illus. incl. sketch map, 2003.

57004261

Dallmann, Winfried.

Geologi i polarområdene; fra berggrunn til papir og skjerm [Geology in the polar regions; from bedrock to paper and screen]: *in 75 ar for Norge*; Norsk Polarinstitutt jubilerer (Orheim, Olav, prefacer), Norsk Polarinstitutt, Tromso, Norway, p. 38-40, 42, illus., 2003.

57004709

Martel, Jim (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and McLeod, Malcolm, compilers.

Facilities engineering applications program; innovative ideas for the operation, maintenance, & repair of Army facilities; sludge sled: Rep. No. EQ-9, 1 sheet, illus., September 1997. Available from: U. S. Army Center for Public Works, Alexandria, VA, United States. CRREL Report No: ERDC/CRREL MP-03-6047

57004711

Martel, Jim (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and McLeod, Malcolm, compilers.

Facilities engineering applications program; innovative ideas for the operation, maintenance, & repair of Army facilities; sludge freezing bed: Rep. No. EQ-7, 1 sheet, illus., January 1993. Available from: U. S. Army Engineering House Support Center, Fort Belvoir, VA, United States. CRREL Report No: ERDC/CRREL MP-03-6046

57005010

Hicks, Faye and Mahabir, Chandra, chairpersons.

Proceedings of the 12th workshop on the Hydraulics of ice covered rivers: Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 1 disc, 2003. Meeting: June 18-20, 2003, Edmonton, AB, Canada. Individual paper within scope is cited separately.

57005011

Shen, Hung Tao (Clarkson University, Department of Civil and Environmental Engineering, Potsdam, NY).

River ice research; progress and missing links: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. Meeting: June 18-20, 2003, Edmonton, AB, Canada.

57005012

Ettema, Robert (University of Iowa, Department of Civil and Environmental Engineering, Iowa City, IA); Chen, Zhiming and Doering, Jay.

Making frazil ice in a large ice tank: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. Meeting: June 18-20, 2003, Edmonton, AB, Canada.

57005013

Ye, S. Q. (University of Manitoba, Department of Civil Engineering, Winnipeg, MB, Canada) and Doering, Jay.

A model for the vertical distribution of frazil ice: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005014

Tracy, Brian T. (U. S. Army Cold Regions Research Engineering Laboratory, Hanover, NH) and Daly, Steven F.

River ice delineation with RADARSAT SAR: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, unpaginated, illus. incl. 1 table, 8 ref., 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada. CRREL Report No: ERDC/CRREL MP-03-6048

57005015

Jasek, Martin (BC Hydro, Burnaby, BC, Canada); Weber, Frank and Hurley, Jeff.

Ice thickness and roughness analysis on the Peace River using RADARSAT-1 SAR imagery: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005016

Pelletier, Kristel (University of Alberta, Department of Civil and Environmental Engineering, Edmonton, AB, Canada); Hicks, Faye; van der Sanden, Joost and Du, Yong.

Monitoring breakup development on the Athabasca River using RADARSAT-1 SAR imagery: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005017

Beltaos, Spyros (Environment Canada, Ecosystems Impacts Research Branch, Burlington, ON, Canada); Burrell, Brian C.; Miller, Lindon and Sullivan, David.

Hydraulic interaction between ice and bridges: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005018

Morse, Brian (Université Laval, Quebec, PQ, Canada); Francoeur, Jean; Delcourt, Hugues and Leclerc, Michel.

Ice control structures using steel nets: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005019

Kuryk, Don (Department of Transportation & Government Services, Winnipeg, MB, Canada).

Winter roads in Manitoba: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005020

van der Vinne, Gary (Trillium Engineering and Hydrographics, Edmonton, AB, Canada) and Andres, David.

In-situ deflection measurements of ice bridges; results and implications on design: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005021

Briggs, Alaina L. (Tetra Tech, Breckenridge, CO).

Hydraulics and sediment transport of a proposed ice control structure: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005022

Barker, Anne (Canadian Hydraulics Centre, Ottawa, ON, Canada) and Timco, Garry.

The friction coefficient of a large ice block on a sand/gravel beach: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005023

Jasek, Martin (BC Hydro, Burnaby, BC, Canada) and Lavallee, Jim.

Safety during river ice data collection: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005024

Tuthill, Andrew M. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Vuyovich, Carrie M. and White, Kathleen D.

Ice-affected stage-frequency development along the Connecticut River: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 20 p., illus. incl. 6 tables, 8 ref., 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada. CRREL Report No: ERDC/CRREL MP-03-6049

57005025

Mahabir, C. (University of Alberta, Department of Civil and Environmental Engineering, Edmonton, AB, Canada); Hicks, F.; Robichaud, C. and Fayek, A. Robinson.

Towards a river breakup forecast system for the Athabasca River at Fort McMurray, AB: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005026

Smith, Derald G. (University of Calgary, Department of Geography, Calgary, AB, Canada). 1100 years of ice-jam flooding in the Peace River delta interpreted from flood bed sediments and ice-scarred trees: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005027

Hamilton, Stuart (Environment Canada, Vancouver, BC, Canada).

Winter hydrometry; real-time data issues: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005028

Daly, Steven F. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Vuyovich, Carrie M.

Modeling river ice with HEC-RAS: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, unpaginated, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada. CRREL Report No: ERDC/CRREL MP-03-6050

57005029

Carson, R. W. (KGS Group, Winnipeg, MB, Canada); Beltaos, Spyros; Healy, D. and Groeneveld, J.

Tests of river ice jam models; Phase 2: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005030

Hopkins, Mark A. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Daly, Steven F.

Recent advances in discrete element modeling of river ice: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, unpaginated, illus., 12 ref., 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada. CRREL Report No: ERDC/CRREL MP-03-6051

57005031

Andres, David (Trillium Engineering and Hydrographics, Edmonton, AB, Canada); van der Vinne, Gary; Johnson, Bill and Fonstad, Gordon.

Ice consolidation on the Peace River; release patterns and downstream surge characteristics: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005032

Beltaos, Spyros (National Water Research Institute, Aquatic Ecosystem Impacts Research Branch, Burlington, ON, Canada).

Threshold condition between mechanical and thermal breakup: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005033

Jasek, Martin (BC Hydro, Burnaby, BC, Canada).

Ice jam release and break-up from propagation: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005034

Kowalczyk, Twyla (University of Alberta, Department of Civil and Environmental Engineering, Edmonton, AB, Canada) and Hicks, Faye.

Observations of dynamic ice jam release on the Athabasca River at Fort McMurray, AB: *in* Proceedings of the 12th workshop on the Hydraulics of ice covered rivers (Hicks, Faye, chairperson; *et al.*), Canadian Geophysical Union, Committee on River Ice Processes and the Environment, Canada, 2003. *Meeting:* June 18-20, 2003, Edmonton, AB, Canada.

57005106

Yankielun, Norbert E. (U. S. Cold Regions Research and Engineering Laboratory, Hanover, NH).

Scour sensor assembly: Rep. No. US 6,526,189 B1, unpaginated, 11 ref., February 25, 2003.

Available from: U. S. Patent Office, Washington, DC, United States. Patent No. 6,526,189 B1; Application no. 09/878,997 filed June 13, 2001.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6,526,189.WKU.&OS=PN/6,526,189&RS=PN/6,526,189> CRREL Report No: ERDC/CRREL MP-03-6054

57005134

Hammer, Claus Uffe, editor.

Hans Tausen ice cap; glaciology and glacial geology: **Meddelelser om Gronland. Geoscience**, 39, 163 p., illus. incl. tables, geol. sketch maps, 2001. ISBN: 87-90369-45-9. Individual papers are cited separately.

57005135

Weidick, Anker (Geological Survey of Denmark and Greenland, Copenhagen, Denmark). Neoglacial glaciations around Hans Tausen Iskappe, Peary Land, North Greenland: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 5-26, 33 ref., 2001.

57005136

Landvik, Jon Y. (University Courses on Svalbard, Longyearbyen, Svalbard and Jan Mayen Islands); Weidick, Anker and Hansen, Anette.

The glacial history of the Hans Tausen Iskappe and the last glaciation of Peary Land, North Greenland: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 27-44, illus. incl. 1 table, sketch map, 40 ref., 2001.

57005137

Starzer, Wolfgang (Geological Survey of Denmark and Greenland, Copenhagen, Denmark) and Reeh, Niels.

Digital elevation models of the Hans Tausen ice cap: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 45-56, illus. incl. sketch map, 4 ref., 2001.

57005138

Reeh, Niels (Technical University of Denmark, Department of Electromagnetic Studies, Lyngby, Denmark); Olesen, Ole B.; Thomsen, Henrik Hojmark; Starzer, Wolfgang and Boggild, Carl Egede.

Mass balance parameterisation for Hans Tausen Iskappe, Peary Land, North Greenland: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 57-69, illus. incl. 4 tables, 10 ref., 2001.

57005139

Gundestrup, Niels (University of Copenhagen, Department of Geophysics, Copenhagen, Denmark); Keller, Kristian; Knudsen, Thomas and Jonsson, Peter.

Locating the Hans Tausen drill site: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 71-80, illus. incl. sketch maps, 5 ref., 2001.

57005140

Jonsson, Peter (Lund University, Department of Engineering Geology, Lund, Sweden).

An impulse radar measurement in NE Greenland: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 81-86, illus., 7 ref., 2001.

57005141

Hammer, Claus Uffe (University of Copenhagen, Department of Geophysics, Copenhagen, Denmark); Johnsen, S. J.; Clausen, Henrik B.; Dahl-Jensen, Dorthe; Gundestrup, Niels and Steffensen, Jorgen Peder.

The paleoclimatic record from a 345 m long ice core from the Hans Tausen Iskappe: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 87-95, illus., 18 ref., 2001.

57005142

Madsen, Karen Norgaard (University of Copenhagen, Department of Geophysics, Copenhagen, Denmark) and Thorsteinsson, Thorsteinn.

Textures, fabrics and meltlayer stratigraphy in the Hans Tausen ice core, North Greenland; indicators of late Holocene ice cap generation?: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 97-114, illus., 34 ref., 2001.

57005143

Keller, Kristian (National Survey and Cadastre, Copenhagen, Denmark); Hvidberg, Christine S.; Gundestrup, Niels and Jonsson, Peter.

Surface movement and mass balance at the Hans Tausen drill site determined by use of GPS: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 115-122, illus. incl. 1 table, sketch map, 12 ref., 2001.

57005144

Clausen, Henrik B. (University of Copenhagen, Department of Geophysics, Copenhagen, Denmark); Stampe, Mia; Hammer, Uffe; Hvidberg, Christine S.; Dahl-Jensen, Dorthe and Steffensen, Jorgen Peder.

Glaciological and chemical studies on ice cores from Hans Tausen Iskappe, Greenland: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 123-149, illus. incl. 9 tables, sketch map, 27 ref., 2001.

57005145

Steffensen, Jorgen Peder (University of Copenhagen, Department of Geophysics, Copenhagen, Denmark); Sigaard-Andersen, Marie-Louise; Stampe, Mia and Clausen, Henrik B.

Microparticles, soil derived chemical components and sea salt in the Hans Tausen ice cap ice core from Peary Land, North Greenland: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 151-160, illus. incl. 1 table, 18 ref., 2001.

57005146

Gruber, Sabine (Universität Mainz, Institut für Physik der Atmosphäre, Mainz, Federal Republic of Germany) and Jaenicke, Ruprecht.

Biological microparticles in the Hans Tausen ice cap, North Greenland: *in* Hans Tausen ice cap; glaciology and glacial geology (Hammer, Claus Uffe, editor), **Meddelelser om Gronland. Geoscience**, 39, p. 161-163, illus., 7 ref., 2001.

57005147

Lentz, Harald (Radar Systemtechnik, Gallen, Switzerland); Braun, Hans-Martin; Younis, Marwan; Fischer, Christian; Wiesbeck, Werner and Mavrocordatos, Constantin.

Concept and realization of an airborne SAR/interferometric radar altimeter system (ASIRAS): *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3099-3101, illus., 1 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005148

Rostan, F. (Astrium, Earth Observation and Science, Friedrichshafen, Federal Republic of Germany) and Mallow, U.

The CryoSat space segment; definition, design and predicted performance: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3102-3104, illus., 2 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005150

Strong, K. (University of Toronto, Department of Physics, Toronto, ON, Canada); Bernath, P.; Drummond, J. R.; Fast, H.; McConnell, J. C.; McElroy, C. T.; Quine, B. M.; Shepherd, T. C.; Solheim, B. H.; Sommerfeldt, D.; Fogal, P. F.; Murcray, F. J. and Goutail, F.

The MANTRA campaigns; studying the stratosphere from balloons: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3136-3138, illus. incl. 1 table, 12 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005151

Wang, S. (Canada Centre for Remote Sensing, Environmental Monitoring Section, Ottawa, ON, Canada); Leblanc, S. G.; Fernandes, R. and Cihlar, J.

Diurnal variation of direct and diffuse radiation and its impact on surface albedo: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3224-3226, illus. incl. 1 table, 9 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005152

Gadallah, Fawzia (University of Toronto, Department of Geography, Toronto, ON, Canada) and Csillag, Ferko.

Vegetation quantification in a sub-arctic salt marsh using reflectance data: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3293-3295, 7 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005153

Hogda, Kjell Arild (NORUT IT, Tromso, Norway); Karlsen, Stein Rune; Solheim, Inger; Tommervik, Hans and Ramfjord, Hallvard.

The start dates of birch pollen seasons in Fennoscandia studied by NOAA AVHRR NDVI data: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3299-3301, illus. incl. 1 table, 14 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005154

Jiang Lingmei (Beijing Normal University, Research Center for Remote Sensing, Beijing, China); Yang Hua; Wang Jindi and Li Xiaowen.

Modeling the albedo of mixed vegetation canopy and snow: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3492-3494, illus., 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005155

Arslan, Ali Nadir (Nokia Group, Nokia Research Center, Finland); Wang, Huining; Koskinen, Jarkko; Pulliainen, Jouni and Hallikainen, Martti.

Scattering from wet snow by applying strong fluctuation theory: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3539-3541, illus., 10 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005156

Heygster, Georg (University of Bremen, Institute of Environmental Physics, Bremen, Federal Republic of Germany); Miao, Jungang and Buehler, Stefan.

Single scattering of partly oriented aspherical cloud ice crystals at sub-millimeter wavelengths: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3564-3566, illus., 9 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005158

Muramoto, Ken-ichiro (Kanazawa University, Faculty of Engineering, Kanazawa, Japan); Servomaa, Henri; Kubo, Mamoru; Ebisu, Sunao and Shiina, Toru.

Measurement of snowfall parameters by radar and optical lidar: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3599-3601, illus., 5 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005160

Yang, P. (Texas A&M University, Department of Atmospheric Sciences, College Station, TX); Hu, Y. X.; Zhao, J.; Winker, D. M.; Hostetler, C. A.; Baum, B. A.; Tsay, S. C.; Gao, B. C. and Mishchenko, M. I.

The enhancement of lidar backscattering by horizontally oriented ice crystal plates in cirrus clouds: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3608-3610, illus., 8 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

57005176

Brice, William R. (University of Pittsburgh at Johnstown, Johnstown, PA) and Figueiroa, Silvia F. de M.

Charles Hartt, Louis Agassiz, and the controversy over Pleistocene glaciation in Brazil: **History of Science**, 38, Part 2(124), p. 161-184, illus. incl. sketch map, 90 ref., June 2001.

57005177

Gipp, Michael R. (McMaster University, School of Geology and Geography, Hamilton, ON, Canada).

Interpretation of climate dynamics from phase space portraits; is the climate system strange or just different?: **Paleoceanography**, 16(4), p. 335-351, illus., 40 ref., August 2001.

57005178

Nowaczyk, Norbert R. (GeoForschungsZentrum Potsdam, Potsdam, Federal Republic of Germany); Frederichs, Thomas W.; Kassens, Heidi; Norgaard-Pedersen, Nils; Spielhagen, Robert F.; Stein, Rüdiger and Weiel, Dominik.

Sedimentation rates in the Makarov Basin, central Arctic Ocean; a paleomagnetic rock magnetic approach: **Paleoceanography**, 16(4), p. 368-389, illus. incl. 3 tables, sketch map, 58 ref., August 2001.

57005179

von Blanckenburg, Friedhelm (Universität Bern, Isotopengeoologie, Mineralogisch-Petrographische, Bern, Switzerland) and Nägler, Thomas F.

Weathering versus circulation-controlled changes in radiogenic isotope tracer composition of the Labrador Sea and North Atlantic deep water: **Paleoceanography**, 16(4), p. 424-434, illus. incl. 2 tables, sketch map, 40 ref., August 2001.

57005180

Duk-Rodkin, Alejandra (Geological Survey of Canada, Calgary, AB, Canada); Barendregt, R. W.; White, J. M. and Singhroy, V. H.

Geologic evolution of the Yukon River; implications for placer gold: *in* Quaternary placer deposits (Duk-Rodkin, Alejandra, editor; *et al.*), **Quaternary International**, 82, p. 5-31, illus. incl. strat. cols., block diag., geol. sketch maps, 33 ref., 2001.

57005181

Levson, Victor M. (British Columbia Geological Survey, Ministry of Energy and Mines, Victoria, BC, Canada) and Blyth, Heather.

Formation and preservation of a Tertiary to Pleistocene fluvial gold placer in Northwest British Columbia: *in* Quaternary placer deposits (Duk-Rodkin, Alejandra, editor; *et al.*), **Quaternary International**, 82, p. 33-50, illus. incl. strat. cols., sects., geol. sketch map, 69 ref., 2001.

57005182

Guneriussen, Tore (NORUT IT, Tromso, Norway); Hogda, Kjell Arild; Johnsen, Harald and Lauknes, Inge.

InSAR for estimation of changes in snow water equivalent of dry snow: **IEEE Transactions on Geoscience and Remote Sensing**, 39(10), p. 2101-2108, illus. incl. 1 table, 19 ref., October 2001.

57005183

Legarsky, Justin J. (University of Missouri, Department of Electrical Engineering, Columbia, MO); Gogineni, Sivaprasad P. and Akins, Torry L.

Focused synthetic aperture radar processing of ice-sounder data collected over the Greenland ice sheet: **IEEE Transactions on Geoscience and Remote Sensing**, 39(10), p. 2109-2117, illus. incl. 4 tables, sketch map, 25 ref., October 2001. Includes appendix.

57005184

Nghiem, Son V. (Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA) and Tsai, Wu-Yang.

Global snow cover monitoring with spaceborne K_u-band scatterometer: **IEEE Transactions on Geoscience and Remote Sensing**, 39(10), p. 2118-2134, illus., 53 ref., October 2001.

57005185

Simpson, James J. (University of California, Scripps Institution of Oceanography, San Diego, CA) and McIntire, Timothy J.

A recurrent neural network classifier for improved retrievals of areal extent of snow cover: **IEEE Transactions on Geoscience and Remote Sensing**, 39(10), p. 2135-2147, illus., 45 ref., October 2001.

57005226

Gray, Bonnie J., chairperson (Environmental Studies Research Funds, Ottawa, ON, Canada).

Environmental studies research funds; annual report 2002—Fonds pour l'étude de l'environnement; rapport annuel 2002: Environmental Studies Research Funds, Ottawa, ON, Canada, 55 p., (French, English), illus., February 2003. ISBN: 0-921652-52-6.

57005228

Anonymous.

Determination of forces which Arctic ice can exert on the drift hull: Westinghouse Electrical Corporation, Defense and Space Center, Baltimore, MD, 21 p., illus., 7 ref., 19??.

57005231

Conger, Steve, compiler.

André Roch, a lifetime of contributions: **The Avalanche Review**, 21(4), p. 1, 22-23, illus. incl. portr., June 2003.

57005232

Brennan, John.

CIL-Orion avalanche control products: **The Avalanche Review**, 21(4), p. 6, illus., June 2003.

57005233

Brennan, John.

Flipper; a self-cleaning storm board: **The Avalanche Review**, 21(4), p. 8, illus., June 2003.

57005234

Richmond, Doug.

Ski stabilization in avalanche terrain: **The Avalanche Review**, 21(4), p. 11-12, illus., June 2003.

57005235

Harvey, Stephan.

Avalanche incidents in Switzerland in relation to the predicted danger degree: **The Avalanche Review**, 21(4), p. 13-14, illus., 9 ref., June 2003.

57005236

Johnson, Russ (American Avalanche Association, Bozeman, MT).

Breaking the chain: **The Avalanche Review**, 21(4), p. 18, illus., June 2003.

57005237

Mueller, Mark.

The avalanche cycle of January 26-30, 1957 at Wolf Creek pass, Colorado: **The Avalanche Review**, 21(4), p. 19, illus., 7 ref., June 2003.

57005238

Sharaf, Don.

Happy top avalanche case study: **The Avalanche Review**, 21(4), p. 20-21, illus., June 2003.

57005239

Al-Khalil, Kamel (Cox & Company, New York, NY).

Assessment of effect of mixed-phase icing conditions on thermal ice protection systems: **Report - Department of Transportation, Federal Aviation Administration, Office of Aviation Administration**, Rep. No. DOT/FAA/AR-03/48, 38 p., illus. incl. 2 tables, 6 ref., May 2003. Available from: National Technical Information Service, Springfield, VA, United States. Final report.

57005240

Bengtsson, Lars.

The role of river rapids in the production of ice: **Bulletin - Institutionen foer Teknisk Vattenresurslaera, Lunds Tekniska Hoegskola, Lunds Universitet, Series A = Bulletin - Department ...Engineering, Lund ...Technology, University of Lund, Series A**, 55, p. 55-65, illus., 2 ref., July 1976.

57005267

Kunz, Michael (Bureau of Land Management, Fairbanks, AK); Bever, Michael and Adkins, Constance.

The Mesa site; paleoindians above the Arctic Circle: **BLM-Alaska Open File Report**, Rep. No. 86, 81 p., illus. incl. sketch maps, 144 ref., April 2003. Available from: Bureau of Land Management, Alaska State Office, Anchorage, AK, United States.

57005268

Anonymous.

Canadian Society for Civil Engineering annual conference, 11th Canadian hydrotechnical conference; proceedings: **Proceedings - National Hydrotechnical Conference = Compte Rendu - Conference Nationale d'Hydrotechnique**, 11, unpaginated, illus. incl. sketch map, 7 ref., 1993. Meeting: June 8-11, 1993, Fredericton, NB, Canada.

57005271

Wey, Jong-Shinn (Clarkson College of Technology, Chemical Engineering Department, Potsdam, NY) and Estrin, Joseph.

Modeling the batch crystallization process; the ice-brine system: **Industrial & Engineering Chemistry Process Design and Development**, 12(3), p. 236-246, illus., 22 ref., 1973. Includes appendix.

57005392

Mironov, E. U. and Klyachkin, S. V., editors.

Issledovaniia ledyanogo pokrova v zamerzaiushchikh moryakh [Research of ice cover in freezing seas]: **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 443, 178 p., illus., 2001. Individual papers are cited separately.

57005408

Korotkov, A. I. (Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation) and Fedyakov, V. E.

Statsionarnaia polyn'ia v zalive Pryuds [Stationary polynya in Prydz Bai]: *in* Issledovania ledyanogo pokrova v zamerzaiushchikh moryakh (Mironov, E. U., editor; *et al.*), **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 443, p. 146-155, illus. incl. table, 9 ref., 2001.

57005546

Beisswenger, Arlene (University of Quebec at Chicoutimi, Ant-icing Materials International Laboratory, Chicoutimi, PQ, Canada); Fortin, Guy and Laforte, Jean-Louis.

Investigation of type II and type IV aircraft ground anti-icing fluid aerodynamic certification standards: Rep. No. DOT/FAA/AR-03/55, 1 disc, July 2003. compact disc *Available from:* National Technical Information Service, Springfield, VA, United States.

57005547

Fernandez, R. (Syracuse University, Department of Chemical and Metallurgy, Syracuse, NY) and Barduhn, A. J.

The growth rate of ice crystals: **Desalination**, 3, p. 330-342, illus. incl. 2 tables, 13 ref., 1967. Paper presented at the Second European symposium on Fresh water from the sea, European Federation of Chemical Engineering, May 9-12, 1967, Athens, Greece.

57005675

Stark, Scott C. (University of Tasmania, School of Chemistry, Sandy Bay, Tasmania, Australia); O'Grady, Barry V.; Burton, Harry R. and Carpenter, Peter D.

Frigidly concentrated seawater and the evolution of Antarctic saline lakes: *in* Environmental and analytical chemistry, **Australian Journal of Chemistry (Online)**, 56(2-3), p. 181-186, illus. incl. 1 table, 57 ref., 2003. WWW. *Meeting:* Interact 2002, July 2002, Sydney, N.S.W., Australia.

Accessed on July 31, 2003.

57005732

Bachus, Walter O., chairperson (U. S. Army Corps of Engineers).

The Great Lakes-St. Lawrence Seaway Winter Navigation Board; third annual report: Rep. No. 3, 100 p., illus. incl. 10 tables, sketch map, 1974. *Available from:* Great Lakes - St. Lawrence Seaway Navigation Season Extension Demonstration Program, United States. Includes appendix.

57005734

Graves, Ernest, chairperson (U. S. Army Corps of Engineers).

The Great Lake-St. Lawrence Seaway Winter Navigation Board; second annual report: Rep. No. 2, 103 p., illus. incl. 9 tables, sketch map, 1973. *Available from:* Great Lakes - St. Lawrence Seaway Navigation Season Extension Demonstration Program, United States.

57005735

Bachus, Walter O., chairperson (U. S. Army Corp of Engineers).

Great Lakes-St. Lawrence Seaway Winter Navigation Board; fourth annual report: Rep. No. 4, 104 p., illus. incl. 8 tables, sketch map, 1975. *Available from:* Great Lakes - St. Lawrence Seaway Navigation Season Extension Demonstration Program, United States. Includes appendix.

57005737

Fathauer, Theodore F. (National Weather Service, Forecast Office, Fairbanks, AK).

The great Bering Sea storms of 9-12 November 1974: **Weatherwise**, April 1975, p. 76-77, 80-83, illus. incl. sketch map, April 1975.

57005902

Westinghouse Defense and Space Center, Systems Operation Division.

Arctic drift hull research platform: Rep. No. SO-320A, 28 p., illus. incl. 4 tables, November 1966. *Available from:* Westinghouse Defense and Space Center Systems Operation Division, Baltimore, MD, United States. NSF Grant NSF-C484.

57005903

Kendrick, A. M. (German & Milne, Westmount, PQ, Canada); Dadachanji, N. and Quart, B.

M.V. Arctic; maneuvering performance in ice: Rep. No. TP 5683E, 16 p. (French sum.), illus., September 1984. *Available from:* Transportation Development Centre, Montreal, PQ, Canada.

57005904

Hightower, M. Michael (Sandia National Laboratories, Albuquerque, NM); Norwood, Frederick R. and Young, C. Wayne.

Development of an ice penetration model: Rep. No. SAND82-0599, 50 p., illus. incl. 2 tables, 21 ref., December 1982. *Available from:* Sandia National Laboratories, Albuquerque, NM, United States.

57005905

Baraduhn, Allen J. (Syracuse University, Syracuse, NY); Rose, Arthur and Sweeny, Robert F.

Waste-water renovation; Part 1, A design study of freezing and gas hydrate formation; Part 2, Feasibility tests of freezing: Rep. No. AWTR-1, 45 p., illus. incl. 10 tables, 19 ref., October 1963. *Available from:* U. S. Department of Health, Education, and Welfare, Public Health Service, Division of Water supply and Pollution Control, Cincinnati, OH, United States; Advanced Waste Treatment Research Program, Basic and Applied Sciences Branch, United States. Includes appendix.

57005906

Lecourt, E. J. (Arctic Technology) and McIntosh, J. A.

Polar Star 1976 ice trials: Rep. No. TR-165C-6, 75 p., illus., 13 ref., October 1977. *Available from:* U. S. Department of Transportation, United States Coast Guard, Washington, DC, United States.

57005908

Vance, George P. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

The analysis of model testing in three different test basins: 24 p., illus. incl. 6 tables, 10 ref., September 1978. *Available from:* Informal notes, United States. CRREL Report No: ERDC/CRREL MP-03-6068

57005910

Glen, I. F. (Arctec Canada, Kanata, ON, Canada); Nawwar, A. M. and Brown, R.

MV Arctic structural performance: Rep. No. TP 568OE, 90 p. (French sum.), illus. incl. 3 tables, 13 ref., April 30, 1985. *Available from:* Transport Canada, Transportation Development Center, Montreal, PQ, Canada. Includes 6 appendices; final report.

57005911

Lecourt, E. J. (Arctic Technology) and Deslauriers, P. C.

Icebreaking model tests of the USCGC Polar Star: Rep. No. 278C-2, 34 p., illus. incl. 8 tables, 13 ref., November 1976. *Available from:* U. S. Department of Transportation, U. S. Coast Guard, Washington, DC, United States. Includes 4 appendices.

57006054

Phillips, Marcia (Swiss Federal Institute for Snow and Avalanche Research, Davos, Switzerland); Springman, Sarah M. and Arenson, Lukas U., editors.

Proceedings of the Eighth international conference on Permafrost: **International Conference on Permafrost, Proceedings**, 8, Volume 1, 660 p., illus. incl. tables, sketch maps, 2003. ISBN: 90-5809-584-3. *Meeting:* July 21-25, 2003, Zurich, Switzerland. Individual papers are cited separately.

57006055

Alexeev, S. V. (Russian Academy of Sciences, Siberian Branch, Institute of the Earth's Crust, Irkutsk, Russian Federation) and Alexeeva, L. P.

The burial of drainage waters from the Udachnaya kimberlite pipe into permafrost: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 1-4, illus. incl. sketch map, 14 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006056

Ananjeva, G. V. (Russian Academy of Sciences, Earth Cryosphere Institute, Moscow, Russian Federation); Melnikov, E. S. and Ponomareva, O. E.

Relict permafrost in the central part of western Siberia: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 5-8, illus. incl. sketch map, 7 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006057

Anisimov, O. A. (State Hydrological Institute, Saint Petersburg, Russian Federation) and Poliakov, V. Y.

GIS assessment of climate-change impacts in permafrost regions: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 9-14, illus. incl. 2 tables, sketch map, 28 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006058

Aoyama, M. (Tokyo Metropolitan University, Department of Geography, Tokyo, Japan). Permafrost environment in the Yari-Hotaka Mountains, southern part of the northern Japanese Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 15-19, illus. incl. 1 table, sketch map, 17 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006059

Arcone, S. A. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Delaney, A. J.

Radiowave pulse refraction and ground wave propagation through permafrost and the active layer: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 21-25, illus. incl. sketch map, 9 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland. CRREL Report No: ERDC/CRREL MP-03-6069

57006060

Are, F. E. (Petersburg State University of Means of Communication, Saint Petersburg, Russian Federation).

Shoreface of the Arctic seas; a natural laboratory for subsea permafrost dynamics: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 27-32, illus. incl. 1 table, 34 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006061

Arenson, Lukas U. (Swiss Federal Institute of Technology, Institute for Geotechnical Engineering, Zurich, Switzerland); Springman, S. M. and Hawkins, P. G.

Pressuremeter tests within an active rock glacier in the Swiss Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 33-38, illus. incl. 3 tables, 26 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006062

Arenson, Lukas U. (Swiss Federal Institute of Technology, Institute for Geotechnical Engineering, Zurich, Switzerland); Almasi, N. and Springman, S. M.

Shearing response of ice-rich rock glacier material: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 39-44, illus. incl. 2 tables, 26 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006063

Bartoszewski, S. A. (Maria Curie-Sklodowska University, Institute of the Earth Sciences, Lublin, Poland) and Magierski, J.

Hydrological dynamics and retention of water in a permafrost environment, Recherche Fiord, Spitsbergen: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 45-48, illus. incl. sketch map, 8 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006064

Bäumler, R. (Technische Universität München, Department of Ecology, Munich, Federal Republic of Germany).

Pedogenesis under permafrost and active volcanism in southern Kamchatka; new aspects about the last glaciation: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 49-54, illus. incl. 1 table, sketch map, 23 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006065

Bauer, A. (Joanneum Research, Institute of Digital Image Processing, Graz, Austria); Paar, G. and Kaufmann, V.

Terrestrial laser scanning for rock glacier monitoring: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 55-60, illus. incl. 1 table, 15 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006066

Beilman, D. W. (University of Alberta, Department of Biological Sciences, Edmonton, AB, Canada) and Robinson, S. D.

Peatland permafrost thaw and landform type along a climatic gradient: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 61-65, illus. incl. 1 table, 25 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006067

Boelhouwers, J. C. (Uppsala University, Department of Earth Sciences, Uppsala, Sweden). Sensitivity and responses to climate change in the subantarctic periglacial environment: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 67-71, illus. incl. 2 tables, sketch map, 6 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006068

Boelhouwers, J. C. (Uppsala University, Earth Sciences, Uppsala, Sweden) and Sumner, P. D.

The palaeoenvironmental significance of southern African blockfields and blockstreams: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 73-78, illus. incl. 1 table, sketch map, 22 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006069

Boike, J. (Alfred Wegener Institute for Polar and Marine Research, Potsdam, Federal Republic of Germany); Hinzman, L. D.; Overduin, P. P.; Romanovsky, V.; Ippisch, O. and Roth, K.

A comparison of snow melt at three circumpolar sites; Spitsbergen, Siberia, Alaska: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 79-84, illus., 7 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006070

Bosikov, N. (Russian Academy of Sciences, Melnikov Permafrost Institute, Yakutsk, Russian Federation).

Climate and cryogenic processes along linear structures: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 85-87, illus. incl. 1 table, 6 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006071

Broll, G. (University of Vechta, Division of Geo- and Agroecology, Vechta, Federal Republic of Germany); Tarnocai, C. and Gould, J.

Long-term high Arctic ecosystem monitoring in Quttinirpaaq National Park, Ellesmere Island, Canada: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 89-94, illus. incl. 5 tables, sketch map, 10 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006072

Brouchkov, A. (Hokkaido University, Research Center for North Eurasia and North Pacific Regions, Sapporo, Japan).

Frozen saline soils of the Arctic coast; their distribution and engineering properties: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 95-100, illus. incl. 4 tables, sketch map, 9 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006073

Brown, J. B. (International Permafrost Association, Woods Hole, MA); Jorgenson, M. T.; Smith, O. P. and Lee, W.

Long-term rates of coastal erosion and carbon input, Elson Lagoon, Barrow, Alaska: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 101-106, illus. incl. 1 table, sketch map, 27 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland. NSF Grants OPP-9818294 and OPP-9818120.

57006074

Burgess, M. M. (Geological Survey of Canada, Natural Resources Canada, Ottawa, ON, Canada) and Smith, S. L.

17 years of thaw penetration and surface settlement observations in permafrost terrain along the Norman Wells Pipeline, Northwest Territories, Canada: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 107-112, illus. incl. 1 table, sketch map, 6 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006075

Burn, C. R. (Carleton University, Ottawa, ON, Canada).

Lake-bottom thermal regime in thermokarst terrain near Mayo, Yukon Territory, Canada: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 113-118, illus. incl. 1 table, 22 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006076

Campbell, I. B. (Land & Soil Consultancy Services, New Zealand) and Claridge, G. G. C.
Thermokarst landforms in the Transantarctic Mountains region of Antarctica: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 119-123, illus., 14 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006077

Cannone, N. (University of Ferrara, Department of Natural and Cultural Resources, Ferrara, Italy); Guglielmin, M.; Hauck, C. and Vonder Mühl, D.

The impact of recent glacier fluctuation and human activities on permafrost distribution, Stelvio Pass (Italian Central-Eastern Alps): *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 125-130, illus. incl. 1 table, sketch maps, 25 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006078

Cheng, G. D. (Chinese Academy of Sciences, State Key Laboratory of Frozen Soil Engineering, Lanzhou, China) and Li, X.

Constructing the Qinghai-Tibet Railroad; new challenges to Chinese permafrost scientists: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 131-134, 24 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006079

Chevrev, V. G. (Moscow State University, Faculty of Geology, Moscow, Russian Federation) and Vidyapin, I. Y.

The hydraulic conductivity of freezing saline soils: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 135-137, illus., 5 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006080

Christiansen, H. H. (University of Oslo, Institute of Geography, Blinder, Norway) and Humlum, O.

The southern boundary of the Northern Hemisphere periglacial zone at the Faroe Islands: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 139-144, illus. incl. 1 table, 12 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006081

Chuvilin, E. M. (Moscow State University, Faculty of Geology, Moscow, Russian Federation); Kozlova, E. V.; Makhomina, N. A. and Yakushev, V. S.

Experimental investigation of gas hydrate and ice formation in methane-saturated sediments: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 145-150, illus. incl. 1 table, 14 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006082

Clark, J. I. (C-CORE, Saint John's, NF, Canada) and Phillips, R.

Centrifuge modelling of frost heave of Arctic gas pipelines: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 151-156, illus., 17 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006083

Costard, F. (Université Paris-Sud, Orsay, France); Dupeyrat, L.; Carey-Gailhardis, E. and Gautier, E.

Thermal erosion in Siberia; laboratory simulations: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 157-162, illus., 12 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006084

Coultish, T. L. (University of Ottawa, Department of Geography, Ottawa, ON, Canada) and Lewkowicz, A. G.

Palsa dynamics in a subarctic mountainous environment, Wolf Creek, Yukon Territory, Canada: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 163-168, illus. incl. 1 table, sketch map, 26 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006085

Davies, M. C. R. (University of Dundee, School of Engineering, Dundee, United Kingdom); Hamza, O. and Harris, C.

Physical modelling of permafrost warming in rock slopes: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 169-174, illus. incl. 1 table, 13 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006086

Delaloye, R. (University of Fribourg, Department of Geosciences, Fribourg, Switzerland); Reynard, E.; Lambiel, C.; Marescot, L. and Monnet, R.

Thermal anomaly in a cold scree slope (Creux du Van, Switzerland): *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 175-180, illus. incl. 1 table, 18 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006087

Delisle, G. (Bundesanstalt für Geowissenschaften und Rohstoffe, Hanover, Federal Republic of Germany) and Allard, M.

Numerical simulation of the temperature field of a palsa reveals strong influence of convective heat transport by groundwater: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 181-186, illus. incl. 1 table, sketch map, 4 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006088

Delisle, G. (Bundesanstalt für Geowissenschaften und Rohstoffe, Hanover, Federal Republic of Germany); Caspers, G. and Freund, H.

Permafrost in north-central Europe during the Weichselian; how deep?: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 187-191, illus., 9 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006089

Dereviagin, A. Y. (Moscow State University, Moscow, Russian Federation); Chizhov, A. B.; Meyer, H.; Hubberten, H. W. and Siegert, C.

Recent ground ice and its formation on evidence of isotopic analysis: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 193-198, illus. incl. 4 tables, 22 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006090

Dramis, F. ("Roma Tre" University, Department Geological Sciences, Rome, Italy); Giraudi, C. and Guglielmin, M.

Rock glacier distribution and paleoclimate in Italy: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 199-204, illus. incl. 2 tables, sketch maps, 53 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006091

Drozdov, D. S. (Russian Academy of Science, Earth Cryosphere Institute, Moscow, Russian Federation); Korostelev, Y. V.; Malkova, G. V. and Melnikov, E. S.

The set of eco-geologic digital maps of the Timan-Pechora Province: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 205-210, illus. incl. sketch maps, 16 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006092

Dubina, M. M. (Tyumen's State Architectural-Constructional Academy, Tyumen, Russian Federation); Chernyakov, Y. A. and Teslenko, D. K.

Management of the thermo-mechanical response of the building-foundation system: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 211-215, illus., 4 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006093

Duchesne, C. (Geological Survey of Canada, Ottawa, ON, Canada); Wright, J. F.; Côté, M. M. and Nixon, F. M.

An enhanced vegetation classification for permafrost modelling, NWT, Canada: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 217-221, illus. incl. 3 tables, sketch map, 9 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006094

Dysli, M. (Swiss Federal Institute of Technology, Soil Mechanics Laboratory, Lausanne, Switzerland).

Scaling of supersaturation by a simple test: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 223-227, illus. incl. 1 table, 15 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006095

Eisner, W. R. (University of Cincinnati, Department of Geography, Cincinnati, OH); Hinkel, K. M.; Nelson, F. E. and Bockheim, J. G.

Late-Quaternary paleoenvironmental record from a palsa-scale frost mound in northern Alaska: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 229-234, illus. incl. 2 tables, 31 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland. NSF Grants OPP-9911122, ATM-9416858, GER-99550382, OPP-0094769, and OPP-0095088. *algae, pollen*

57006096

Ershov, E. D. (Moscow State University, Moscow, Russian Federation); Parmuzin, S. Y.; Lobanov, N. F. and Lopatin, V. V.

Problems of radioactive waste burial in perennially frozen ground: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 235-238, illus. incl. 1 table, 4 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006097

Fedorov, A. N. (Russian Academy of Sciences, Melnikov Permafrost Institute, Yakutsk, Russian Federation) and Konstantinov, P.

Observations of surface dynamics with thermokarst initiation, Yukechi site, central Yakutia: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 239-243, illus. incl. sketch map, 12 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006098

Fedoseyeva, V. I. (Russian Academy of Sciences, Melnikov Permafrost Institute, Yakutsk, Russian Federation) and Fedoseyev, N. F.

Migration of copper ions from an underlying substrate to the snowcover: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 245-248, illus., 16 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006099

Fowler, A. C. (Mathematical Institute, Oxford, United Kingdom).

A mathematical model of differential frost heave: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 249-252, illus., 19 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006100

Frauenfelder, R. (University of Zurich, Department of Geography, Zurich, Switzerland); Haeberli, W. and Hoelzle, M.

Rockglacier occurrence and related terrain parameters in a study area of the eastern Swiss Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 253-258, illus. incl. 1 table, 39 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006101

Frolov, A. D. (Russian Academy of Sciences, Scientific Council on Earth Cryology, Moscow, Russian Federation).

A physical model of frozen ground considered as a complex macrosystem: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 259-264, illus., 12 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006102

Fukui, K. (Tokyo Metropolitan University, Department of Geography, Tokyo, Japan).

Permafrost and surface movement of an active protalus rampart in the Kuranosuke Cirque, the northern Japanese Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 265-270, illus. incl. sketch maps, 22 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006103

Gautier, E. (University of Paris VIII, Laboratoire de Géographie Physique, Paris, France); Brunstein, D.; Costard, F. and Lodina, R.

Fluvial dynamics in a deep permafrost zone; the case of the middle Lena River (central Siberia): *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 271-275, illus., 12 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006104

Gavriliev, P. P. (Russian Academy of Sciences, Melnikov Permafrost, Yakutsk, Russian Federation) and Efremov, P. V.

Effects of cryogenic processes on Yakutian landscapes under climate warming: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 277-282, illus. incl. sketch maps, 20 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006105

Gavriliev, R. I. (Russian Academy of Sciences, Melnikov Permafrost Institute, Yakutsk, Russian Federation).

Quantitative estimation of the thermal conductivity of saturated frozen soils: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 283-285, illus., 8 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006106

Gavrilov, A. V. (Moscow State University, Faculty of Geology, Moscow, Russian Federation) and Tumskoy, V. E.

Model of mean annual temperature history for the Yakutian coastal lowlands and Arctic shelf during the last 400 thousand years: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 287-290, illus. incl. sketch map, 17 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006107

Goering, D. J. (University of Alaska at Fairbanks, Fairbanks, AK).

Thermal response of air convection embankments to ambient temperature fluctuations: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 291-296, illus., 4 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006108

Gravis, G. F. (Russian Academy of Sciences, Institute of Earth Cryosphere, Moscow, Russian Federation); Melnikov, E. S.; Guo Dongxin; Li Shuxun; Li Shude; Tong Boliang; Zhao Lin; Nan Zuotong; Sharkhuu, N.; Gorbunov, A. P.; Marchenko, S. S. and Seversky, E. V.
Principles of classification and mapping of permafrost in Central Asia: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 297-302, illus. incl. 1 table, sketch map, 36 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006109

Grebennets, V. I. (Moscow State University, Faculty of Geography, Moscow, Russian Federation).

Geocryological-geoecological problems occurring in urbanised territories in northern Russia and methods for improvement and restoration of foundations: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 303-307, illus., 4 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006110

Grechishchev, S. E. (State Road Research Institute, Soyuzdorniy, Russian Federation); Kazarnovsky, V. D.; Pshenichnikova, Y. S. and Sheshin, Y. B.

Experimental road structures for permafrost regions: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 309-311, illus., 3 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006111

Grechishchev, S. E. (Earth Cryosphere Institute, Moscow, Russian Federation).

Ice segregation and slope stability in permafrost areas: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 313-317, illus. incl. 1 table, 4 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006112

Grigoriev, M. N. (Russian Academy of Sciences, Permafrost Institute, Yakutsk, Russian Federation) and Rachold, V.

The degradation of coastal permafrost and the organic carbon balance of the Laptev and East Siberian seas: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 319-324, illus. incl. 1 table, sketch maps, 36 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006113

Gruber, S. (University of Zurich, Department of Geography, Zurich, Switzerland); Peter, M.; Hoelzle, M.; Woodhatch, I. and Haeberli, W.

Surface temperatures in steep alpine rock faces; a strategy for regional-scale measurement and modelling: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 325-330, illus. incl. 1 table, 24 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006114

Gude, M. (University of Jena, Department of Geography, Jena, Federal Republic of Germany); Dietrich, S.; Mäusbacher, R.; Hauck, C.; Molenda, R.; Ruzicka, V. and Zacharda, M.

Probable occurrence of sporadic permafrost in non-alpine scree slopes in Central Europe: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 331-336, illus. incl. 1 table, 12 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006115

Guglielmin, M. (ArpaLombardia, Milan, Italy); Balks, M. and Paetzold, R.

Towards an Antarctic active layer and permafrost monitoring network: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 337-341, illus. incl. 3 tables, 8 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006116

Haeberli, W. (University of Zurich, Geography Department, Zurich, Switzerland); Brandova, D.; Burga, C.; Egli, M.; Frauenfelder, R.; Kääb, A.; Maisch, M.; Mauz, B. and Dikau, R.

Methods for absolute and relative age dating of rock-glacier surfaces in alpine permafrost: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 343-348, illus., 49 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006117

Hall, K. (University of Northern British Columbia, Geography Program, Prince George, BC, Canada).

Micro-transducers and high-frequency rock temperature data; changing our perspectives on rock weathering in cold regions: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 349-354, illus., 30 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006118

Henry, K. S. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Holtz, R. D.

Simulating soil freezing conditions in the laboratory: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 377-382, illus. incl. 4 tables, 14 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland. CRREL Report No: ERDC/CRREL MP-03-6070

57006119

Herz, T. (JLU, Institut für Geographie, Giessen, Federal Republic of Germany); King, L. and Gubler, H.

Microclimate within coarse debris of talus slopes in the alpine periglacial belt and its effect on permafrost: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 383-387, illus., 17 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006120

Hétu, B. (Université du Québec, Rimouski, Canada); Gray, J. T.; Gangloff, P. and Archambault, B.

Postglacial talus-derived rock glaciers in the Gaspé Peninsula, Québec (Canada): *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 389-394, illus. incl. sketch map, 19 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006121

Heyse, I. (Ghent University, Department of Geography, Ghent, Belgium) and Ghysels, G.
Fossil polygonal periglacial structures in Flanders (Belgium): *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 395-400, illus. incl. 2 tables, sketch maps, 37 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006122

Hinkel, K. M. (University of Cincinnati, Department of Geography, Cincinnati, OH); Bockheim, J. G.; Peterson, K. M. and Norton, D. W.

Impact of snow fence construction on tundra soil temperatures at Barrow, Alaska: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 401-405, illus., 10 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland. NSF Grants OPP-9529783, OPP-9732051, and OPP-0094769.

57006123

Hinzman, L. D. (University of Alaska, Fairbanks Water and Environmental Research Center, Fairbanks, AK); Kane, D. L.; Yoshikawa, K.; Carr, A.; Bolton, W. R. and Fraver, M.
Hydrological variations among watersheds with varying degrees of permafrost: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 407-411, illus. incl. 1 table, sketch map, 11 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006124

Hirschmugl, M. (University of Graz, Institute of Geography and Regional Sciences, Graz, Austria).

Debris flows in the mountain permafrost zone; Hohe Tauern National Park (Austria): *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 413-418, illus. incl. 2 tables, sketch maps, 19 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006125

Hoelzle, M. (University of Zurich, Department of Geography, Zurich, Switzerland); Haeberli, W. and Stocker-Mittaz, C.

Miniature ground temperature data logger measurements 2000-2002 in the Murtèl-Corvatsch area, eastern Swiss Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 419-424, illus. incl. 3 tables, 23 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006126

Holubec, I. (SNC-LAVALIN Engineers & Constructors, Toronto, ON, Canada); Hu, X.; Wonnacott, J.; Olive, R. and Delarosbil, D.

Design, construction and performance of dams in continuous permafrost: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 425-430, illus. incl. 3 tables, sketch maps, 1 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006127

Hubberten, H. W. (Alfred Wegener Institute for Polar and Marine Research, Potsdam, Federal Republic of Germany) and Romanovskii, N. N.

The main features of permafrost in the Laptev Sea region, Russia; a review: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 431-436, illus. incl. geol. sketch maps, 34 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006128

Hu, X. (SNC-Lavalin Engineers & Constructors, Toronto, ON, Canada); Holubec, I.; Wonnacott, J.; Lock, R. and Olive, R.

Geomorphological, geotechnical and geothermal conditions at Diavik Mines: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 437-442, illus. incl. 3 tables, sketch maps, 10 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006129

Hyatt, J. A. (Eastern Connecticut State University, Environmental Earth Science, Willimantic, CT); Michel, F. A. and Gilbert, R.

Recognition of subglacial regelation ice near Pangnirtung, Baffin Island, Canada: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 443-448, illus. incl. sketch map, 28 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006130

Iijima, Y. (University of Tokyo, Department of Ecosystem Studies, Tokyo, Japan) and Fukui, K.

The effect of surface nocturnal cooling on maintaining the mountain permafrost in central Japan: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 449-454, illus. incl. 1 table, sketch map, 14 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006131

Ikeda, A. (University of Tsukuba, Institute of Geoscience, Ibaraki, Japan); Matsuoka, N. and Kääb, A.

A rapidly small rock glacier at the lower limit of the mountain permafrost belt in the Swiss Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 455-460, illus. incl. sketch maps, 17 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006132

Instanes, A. (Instances Consulting Engineers, Bergen, Norway).

Climate change and possible impact on Arctic infrastructure: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 461-466, illus. incl. 2 tables, 22 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006133

Isaksen, K. (Norwegian Meteorological Institute, Oslo, Norway); Heggem, E. S. F.; Bakkehoi, Steinar; Odegard, R. S.; Eiken, T.; Etzelmüller, B. and Sollid, J. L.

Mountain permafrost and energy balance on Juvvasshoe, Southern Norway: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 467-472, illus. incl. 2 tables, sketch maps, 21 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006134

Ishikawa, M. (Frontier Observational Research System for Global Change, Yokohama, Japan).

Spatial mountain permafrost modelling in the Daisetsu Mountains, northern Japan: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 473-478, illus. incl. sketch maps, 11 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006135

Ivanova, R. N. (Russian Academy of Sciences, Melnikov Permafrost Institute, Yakutsk, Russian Federation).

Seasonal thawing of soils in the Yana River valley, northern Yakutia: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 479-482, illus. incl. 1 table, sketch map, 6 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006136

Iwahana, G. (Institute of Low Temperature Science, Sapporo, Japan); Fukuda, M.; Kobayashi, Y.; Machimura, T. and Fedorov, A. N.

A comparative study of the surface and active layer conditions at disturbed forest sites near Yakutsk: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 483-488, illus. incl. 4 tables, sketch map, 15 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006137

Johnson, K. (EBA Engineering Consultants, Edmonton, AB, Canada); Solomon, S.; Berry, D. and Graham, P.

Erosion progression and adaptation strategy in a northern coastal community: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 489-494, illus. incl. sketch maps, 7 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006138

Jorgenson, M. Torre (ABR, Fairbanks, AK); Macander, M.; Jorgenson, J. C.; Ping, C. L. and Harden, J.

Ground ice and carbon characteristics of eroding coastal permafrost at Beaufort Lagoon, Northern Alaska: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 495-500, illus. incl. 1 table, 15 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006139

Kääb, A. (University of Zurich, Department of Geography, Zurich, Switzerland); Kaufmann, V.; Ladstädter, R. and Eiken, T.

Rock glacier dynamics; implications from high-resolution measurements of surface velocity fields: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 501-506, illus., 31 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006140

Kane, D. L. (University of Alaska, Fairbanks Water & Environmental Research Center, Fairbanks, AK); Gieck, R. E. and Bowling, L. C.

Impacts of surficial permafrost landforms on surface hydrology: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 507-511, illus. incl. sketch maps, 15 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland. NSF Grant OPP-9814984.

57006141

Kanevskiy, M. (Russian Academy Sciences, Siberian Branch, Earth Cryosphere Institute, Tyumen, Russian Federation).

Cryogenic structure of mountain slope deposits, Northeast Russia: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 513-518, illus. incl. 1 table, 7 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006142

Karunaratne, K. C. (Carleton University, Department of Geography and Environmental Studies, Ottawa, ON, Canada) and Burn, C. R.

Freezing n-factors in discontinuous permafrost terrain, Takhini River valley, Yukon Territory, Canada: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 519-524, illus. incl. 3 tables, 15 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006143

Kaufmann, V. (Graz University of Technology, Institute of Geodesy, Graz, Austria) and Ladstädter, R.

Quantitative analysis of rock glacier creep by means of digital photogrammetry using multi-temporal aerial photographs; two case studies in the Austrian Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 525-530, illus. incl. sketch maps, 17 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006144

Keller, F. (Academia Engiadina, Switzerland) and Tamás, M.

Enhanced ground cooling in periods with thin snow cover in the Swiss National Park: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 531-536, illus., 15 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006145

Kenyi, L. W. (Joanneum Research, Institute for Digital Image Processing, Graz, Austria) and Kaufmann, V.

Measuring rock glacier surface deformation using SAR interferometry: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 537-541, illus. incl. 1 table, 15 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006146

Kershaw, G. P. (University of Alberta, Department of Earth and Atmospheric Sciences, Edmonton, AB, Canada).

Permafrost landform degradation over more than half a century, Macmillan/Caribou Pass region, NWT/Yukon, Canada: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 543-548, illus. incl. sketch map, 21 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006147

Khrustalev, L. N. (Moscow State University, Moscow, Russian Federation).

Permafrost engineering problems at the turn of the XXIst century: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 549-554, illus., 9 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006148

Klene, A. E. (University of Delaware, Newark, DE); Hinkel, K. M. and Nelson, F. E.

The Barrow urban heat island study; soil temperatures and active-layer thickness: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 555-560, illus. incl. 1 table, sketch map, 39 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland. NSF Grants OPP-0094769 and OPP-0095088.

57006149

Kneisel, Christof (University of Wuerzburg, Department of Physical Geography, Wuerzburg, Federal Republic of Germany).

Sporadic and discontinuous mountain permafrost occurrence in the Upper Engadine, eastern Swiss Alps: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 561-566, illus. incl. 1 table, 20 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006150

Kokelj, S. V. (Carleton University, Department of Geography and Environmental Studies, Ottawa, ON, Canada) and Burn, C. R.

“Drunken forest” and near-surface ground ice in Mackenzie Delta, Northwest Territories, Canada: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 567-571, illus. incl. sketch map, 13 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006151

Kolunin, V. S. (Russian Academy of Sciences, Siberian Branch, Earth's Cryosphere Institute, Tyumen, Russian Federation).

Water and ice transfer in porous media near the phase transition point: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 573-578, illus., 12 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006152

Komarov, I. A. (Moscow State University, Geological Department, Moscow, Russian Federation).

Effect of microscopic heterogeneities on water transfer in frozen ground: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 579-583, illus. incl. 2 tables, 9 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006153

Konishchev, V. N. (Moscow State University, Faculty of Geography, Moscow, Russian Federation); Golubev, V. N. and Sokratov, S. A.

Sublimation from a seasonal snow cover and an isotopic content of ice wedges in the light of a palaeoclimate reconstruction: *in Proceedings of the Eighth international conference on Permafrost* (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 585-590, illus. incl. 1 table, sketch map, 30 ref., 2003. *Meeting*: July 21-25, 2003, Zurich, Switzerland.

57006154

Konstantinov, I. P. (Russian Academy of Sciences, Siberian Branch, Melnikov Permafrost Institute, Yakutsk, Russian Federation).

Concept of protection against adverse permafrost-related processes: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 591-594, 7 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006155

Kopczynski, S. E. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Lawson, D. E.; Arcone, S. A. and Snyder, C. F.

Predicting the extent of discontinuous permafrost and affiliated ground water aquifers: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 595-599, illus. incl. sketch maps, 10 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland. CRREL Report No: ERDC/CRREL MP-03-6071

57006156

Korobova, E. M. (V. I. Vernadsky Institute of Geochemistry and Analytical Chemistry, Moscow, Russian Federation); Ukrantseva, N. G.; Surkov, V. V. and Brown, J. B.

Geochemistry study of the tundra landscapes in the Yenisey Delta and gulf area: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 601-606, illus. incl. 3 tables, sketch map, 13 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006157

Kozlov, A. N. (Moscow State University, Moscow, Russian Federation); Parmuzin, S. Y. and Pustovoit, G. P.

Long-time probabilistic forecasting for temperature and phase state of soils in the permafrost zone: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 607-610, illus., 2 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006158

Krummenacher, B. (Swiss Federal Institute for Snow and Avalanche Research, Davos, Switzerland); Affentranger, R.; Kienholz, H.; Eisenring, S. and Haeberli, W.

Use of the solar compass to estimate the presence of permafrost: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 611-615, illus. incl. 2 tables, 7 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006159

Kuzmin, G. P. (Russian Academy of Sciences, Melnikov Permafrost Institute, Yakutsk, Russian Federation) and Zhang, R. V.

Operation of air and liquid thermosyphons; experimental comparison: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 617-619, illus., 6 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006160

Ladanyi, B. (École Polytechnique, Montreal, PQ, Canada).

Rheology of ice/rock systems and interfaces: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 621-626, illus., 31 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006161

Laustela, M. (University of Zurich, Geography Department, Zurich, Switzerland); Egli, M.; Frauenfelder, R.; Kääb, A.; Maisch, M. and Haeberli, W.

Weathering rind measurements and relative age dating of rock glacier surfaces in crystalline regions of the eastern Swiss Alps: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 627-632, illus. incl. 1 table, sketch map, 32 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006162

LeBlanc, A. M. (Université Laval, Département de Géologie et de Génie Géologique, Saint-Foy, PQ, Canada); Fortier, R. and Allard, M.

Seismic cone penetration test and vertical seismic profiling in permafrost: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 633-638, illus., 21 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006163

Lehmkuhl, F. (Aachen University, Department of Geography, Aachen, Federal Republic of Germany); Stauch, G. and Batkhishig, O.

Rock glacier and periglacial processes in the Mongolian Altai: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 639-644, illus. incl. 1 table, sketch map, 35 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006164

Leibman, M. O. (Russian Academy of Sciences, Siberian Branch, Earth Cryosphere Institute, Tyumen, Russian Federation); Hubberten, H. W.; Lein, A. Yu.; Streletskaia, I. D. and Vanshtein, B. G.

Tabular ground ice origin; cryolithological and isotope-geochemical study: *in* Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; *et al.*), **International Conference on Permafrost, Proceedings**, 8, Volume 1, p. 645-650, illus. incl. sketch map, 12 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

57006167

Timco, G. W. (National Research Council, Ottawa, ON, Canada) and Sayed, M.

Thermal stress in a constrained ice sheet: *in* Canadian Society for Civil Engineering annual conference, 11th Canadian hydrotechnical conference; proceedings, **Proceedings - National Hydrotechnical Conference = Compte Rendu - Conference Nationale d'Hydrotechnique**, 11, p. 593-602, illus., 11 ref., 1993. *Meeting:* June 8-11, 1993, Fredericton, NB, Canada.

57006168

Hirayama, Ken-ichi (Iwate University, Civil Engineering Department, Morioka, Japan).
Thrust on hydraulic structures due to the thermal expansion of ice cover: **Technology Reports of the Iwate University**, 9, p. 61-70, illus. incl. 2 tables, 7 ref., 1976.

57006172

Jorgenson, M. Torre (ABR, Fairbanks, AK) and Racine, Charles H.
Review of potential impacts of the proposed GVEA powerline on ecosystems on the Tanana Flats: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-03-14, 24 p., illus. incl. 3 tables, sketch map, 44 ref., February 22, 2001. Available from: Alaska Department of Natural Resources, Division of Mining, Land and Water, Fairbanks, AK, United States. Final report. CRREL Report No: ERDC/CRREL MP-03-6091

57006177

Calabrese, S. J. (Rensselaer Polytechnic Institute, Department of Mechanical Engineering, Troy, NY) and Murray, S. F.

Methods of evaluating of evaluating materials for icebreaker hull coatings: *in* Selection and use of wear tests for coatings (Bayer, R. G., editor), **ASTM Special Technical Publication. STP**, 769, p. 157-173, illus. incl. 3 tables, 6 ref., 1981. *Meeting:* Dec. 9, 1981, Phoenix, AZ.

57006182

Wieghardt, K. (University of Hamburg, Hamburg, Federal Republic of Germany).
Preliminary flow tests with sand, sand/water mixtures and mush ice: **Institut für Schiffbau der Universität Hamburg - Bericht**, 383, 9 p., illus., July 1979. Includes appendix.

57006196

Cheng, Chen-Yen (Calyxes Research and Development Corporation, Albuquerque, NM) and Cheng, Wu-Ching.

Final report on the vacuum freezing multiple phase transformation process investigation (September 1985-September 1986): Calyxes Research and Development Corporation, Albuquerque, NM, 83 p., illus. incl. 10 tables, 1986. Includes 2 appendices.

57006197

Anonymous.

Ice navigation in the USSR; inland waterways: "Ice Navigation" Working Group, PIANC, USSR, 19 p., illus. incl. 2 tables, 1982.

57006198

Swift, Peter M. (Shell Oil (London), Marine Department, London, United Kingdom) and Benford, Harry.

Economics of winter navigation in the Great Lakes and St. Lawrence Seaway: *in* The Society of Naval Architects and Marine Engineers annual meeting, Society of Naval Architects and Marine Engineers, New York, NY, p. 1-13, illus. incl. 8 tables, sketch map, 25 ref., 1975. *Meeting:* Nov. 13-15, 1975, New York, NY. Paper No. 12.

57006201

Vance, George P. (U. S. Army Cold Regions Research and Engineering, Hanover, NH).

Supplementary data for analysis of the performance of a 140-ft Great Lakes icebreaker (USCGC Katmai Bay): **CRREL Internal Report**, Rep. No. 621, unpaginated, illus. incl. tables, April 1980. CRREL Report No: ERDC/CRREL MP-03-6103

57006204

Vance, George P. (U. S. Cold Regions Research and Engineering Laboratory, Hanover, NH).

Comparison of full scale performance with predicted performance of the USCGC Katmai Bay (WTGB 101): 35 p., illus. incl. 6 tables, 13 ref., June 1980. *Available from:* U. S. Department of Transportation, U. S. Coast Guard, Washington, DC, United States. CRREL Report No: ERDC/CRREL MP-03-6072

57006476

Vance, George (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

Research trial of ship in ice conditions: 13 p., 19???. *Available from:* Informal notes, United States. CRREL Report No: ERDC/CRREL MP-03-6079

57006477

Sodhi, Devinder S. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

Ice forces on structures: 23 p., illus. incl. 1 table, 3 ref., 19???. *Available from:* Informal notes, United States. CRREL Report No: ERDC/CRREL MP-03-6080

57006511

St. Lawrence Seaway Authority Operations and Maintenance Branch.

Navigation season extension studies record of conditions St. Lawrence River and Lake Erie winter 1990-1991: 24 p., illus. incl. sketch maps, October 1991. *Available from:* The St. Lawrence Seaway Authority Operations and Maintenance Branch, Cornwall, ON, Canada.

57006514

Wartsila.

WABS, Wartsila air bubbling system; a system for improving the icebreaking performance of ships: Wartsila, Helsinki, Finland, 27 p., illus., November 1979.

57006517

Mathews, S. T. (Arctic Vessel and Marine Research Institute, Saint John's, NF, Canada).

The Arctic Vessel and Marine Research Institute of the National Research Council of Canada: 15 p., May 1979. *Available from:* National Research Council of Canada, Arctic Vessel and Marine Research Institute, Saint John's, NF, Canada.

57006519

Carey, K. L. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Ashton, G. D. and Frankenstein, G. E.

Ice engineering for civil works; baseline study: 91 p., illus. incl. 4 tables, sketch map, August 1973. *Available from:* U. S. Army Corps of Engineers, Directorate of Civil Works, United States. CRREL Report No: ERDC/CRREL MP-03-6095

57006521

Keller, Linda M. (University of Wisconsin, Department of Atmospheric and Oceanic Sciences, Madison, WI); Weidner, George A.; Stearns, Charles R.; Whittaker, Matthew T.; Holmes, Robert E. and Lazzara, Matthew A.

Antarctic automatic weather station data for the calendar year 1999: University of Wisconsin, Space Science and Engineering Center, Madison, WI, 49 p., illus. incl. sketch maps, July 2003. NSF Grant OPP-9726040.

57006522

Michel, Bernard.

Basic considerations on unconsolidated ice covers: **Report - Université Laval, Génie Civil, Sciences et Génie**, Rep. No. GCS-84-03, 16 p., illus., 6 ref., September 1984.

57006524

Williams, F. M. (Institute for Marine Dynamics, Canada); Spencer, D.; Mathews, S. T. and Bayly, Ian.

Full scale trials in level ice with Canadian R-class icebreaker: *in* The Society of Naval Architects and Marine Engineers annual meeting, Society of Naval Architects and Marine Engineers, Jersey City, NJ, 18 p., illus. incl. 4 tables, 32 ref., 1992. *Meeting*: Oct. 28-31, 1992, New York, NY. Paper No. 10.

57006525

Assur, Andrew (U. S. Cold Regions Research and Engineering Laboratory, Hanover, NH).

A revolutionary shape for icebreaking vessels; experimental investigation of a novel icebreaker concept; discussion: 5 p., 1981. *Available from*: Informal notes, United States. For reference to original see Freitas, A., 6th ship technology and research (STAR) symposium, Ottawa, ON, June 17-19, p. 369-380, 1981; Society of Naval Architects and Marine Engineers, New York, NY; CRREL Acc. No: 37000718. CRREL Report No: ERDC/CRREL MP-03-6082

57006526

Rychnovsky, R. E. (Sandia National Laboratories, Livermore, CA).

Development of an Arctic ice penetrator: Rep. No. SAND88-8218, variously paginated, December 1998. *Available from*: Sandia National Laboratories, Albuquerque, NM, United States.

57006527

Williams, G. P.

Evaporation from natural surfaces: Rep. No. 185, 9 p., 25 ref., November 1959. *Available from*: National Research Council of Canada, Division of Building Research, Ottawa, ON, Canada. Includes 2 appendices.

57006528

Goodings, D. J. (University of Maryland, Department of Civil Engineering, College Park, MD) and Straub, N.

Boulder jacking through seasonal freezing and thawing: *in* Centrifuge 98 (Kimura, T., editor; *et al.*), **Proceedings of the International Conference Centrifuge**, 98, Vol. 1, p. 869-873, illus., 6 ref., 1998. *Meeting*: Sept. 23-25, 1998, Tokyo, Japan.

57006529

Takahashi, H. and Kitagawa, H.

Ice model basin at Ship Research Institute: Ship Research Institute, Tokyo, Japan, 8 p., illus., 2 ref., September 1979.

57006530

Lecourt, E. J. (ARCTEC).

Icebreaking model tests of the 140-foot WYTM: Rep. No. 202C-2, 37 p., illus. incl. 9 tables, 3 ref., June 1975. *Available from:* U. S. Department of Transportation, U. S. Coast Guard, Washington, DC, United States. Includes 3 appendices.

57006531

Carter, Donald (1281 Bishop, Ste-Foy, PQ, Canada).

Ice forces on fixed structures and ship hulls: Rep. No. TP-7457E, 41 p. (French sum.), illus. incl. 6 tables, 58 ref., February 1986. *Available from:* Transport Canada, Transportation Development Centre, Montreal, PQ, Canada. Final report.

57006532

Canadian Marine Transportation Administration.

Review of recent Canadian activities for the extension of the navigation season; Gulf of St. Lawrence to Great Lakes: 13 p., site location maps, 1:6,336,000, 1972. *Available from:* Canadian Marine Transportation Administration, Canada.

57006534

Harris, Richard L., chairperson (U. S. Army Corps of Engineers).

The Great Lakes and St. Lawrence Seaway Winter Navigation Board; demonstration program final report: 136 p., illus. incl. 4 tables, September 1979. *Available from:* Great Lakes and St. Lawrence Seaway Navigation Season Extension Demonstration Program, United States.

57006536

Remus, Melvyn D. (U. S. Army Corps of Engineers).

Transit of a 105' by 1100' lake freighter through the Great Lakes system: 69 p., illus. incl. 23 tables, sketch maps, August 1976. *Available from:* U. S. Army Corps of Engineers, Detroit District, Detroit, MI, United States. Includes 5 appendices; special report.

57006537

U. S. Army Corps of Engineers.

The Great Lakes-St. Lawrence Seaway Winter Navigation Board; first annual report: Rep. No. 1, 100 p., illus. incl. 6 tables, sketch map, 1972. *Available from:* Great Lakes - St. Lawrence Seaway Navigation Season Extension Demonstration Program, United States. Includes appendices.

57006539

Abdelnour, R. (ARCTEC Canada, Kanata, ON, Canada).

Model tests of an icebreaking inclined plane: Rep. No. 289C-1, variously paginated, illus. incl. tables, 2 ref., March 16, 1979. *Available from:* National Research Council, Department of Building Research, Ottawa, ON, Canada. Includes 3 appendices.

57006540

Gerard, R. (University of Alberta, Department of Civil Engineering, Edmonton, AB, Canada) and Stanley, S.

A preliminary appraisal of meteorological and streamflow effects on break-up, Yukon River at Dawson: **Water Resources Engineering Report**, Rep. No. 86-1, 50 p., illus. incl. 1 table, sketch map, 1 ref., April 1986. Includes 2 appendices.

57006542

Crago, W. A. (British Hovercraft Corporation, Experimental and Electronic Laboratories, United Kingdom); Dix, P. J. and German, J. Gordon.

Model icebreaking experiments and their correlation with full scale data: *in* Meeting of the Royal Institution of Naval Architects, The Royal Institution of Naval Architects, London, United Kingdom, 16 p., illus. incl. 1 table, 12 ref., 1970. *Meeting*: April 22, 1970, London, United Kingdom. Includes appendix; Paper No. 3.

57006543

Waas, E. H. Heinrich (Hamburgische Schiffbau-Versuchsanstalt, Hamburg, Federal Republic of Germany).

Zusatzantrieb für eisbrechende Schiffe; Vorschlag für neue Schiffstypen, geeignet für die Arktis-Fahrt [Auxiliary propulsion for icebreakers; proposal for a new type of ship suitable for Arctic travel]: Hamburgische Schiffbau-Versuchsanstalt, Hamburg, Federal Republic of Germany, 8 p., illus., August 28, 1970.

57006544

West, E. E.

Powering predictions for the United States Coast Guard 140-foot WYTM represented by model 5336: Rep. No. SPD-223-16, 2 p., illus. incl. 3 tables, April 1975. *Available from*: U. S. Department of the Navy, Naval Ship Research & Development Center, Ship Performance Department, Bethesda, MD, United States. Final report.

57006545

Yamaguchi, E. (Hitachi Zosen Corporation, Technical Research Institute, Osaka, Japan); Iwata, S.; Andoh, M. and Kitazawa, T.

Effect of freezing temperature on the flexural properties of urea model-ice: 17 p., illus., 6 ref., 198?. *Available from*: Informal notes, United States.

57006546

Vance, G. P. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

State of the art of ship model testing in ice: *in* 19th American towing tank conference, **American Tank Towing Conference**, 19, p. 1-10, illus. incl. 1 table, 5 ref., April 1980. *Meeting*: July 9-11, 1980, Ann Arbor, MI. CRREL Report No: ERDC/CRREL MP-03-6083

57006547

Prentice, B. G. (Sandia National Laboratories, Advanced Systems Development Division I, Albuquerque, NM).

Three-inch air gun ice penetration test program: Rep. No. SAND86-0092, variously paginated, May 1986. *Available from*: Sandia National Laboratories, Albuquerque, NM, United States.

57006548

DenHartog, Stephen L. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Martel, C. James.

Innovative waste treatment at remote sites: Rep. No. FEAP-UG-CRREL-93-03, 5 p., illus., August 1993. *Available from:* U. S. Army Engineering and Housing Support Center, Facilities Engineering Applications Program, Fort Belvoir, VA, United States.

57006549

Gedney, Richard T. (NASA, Lewis Research Center, Cleveland, OH).

Ice and weather information system for the Great Lakes Winter Navigation Season Program: 8 p., illus. incl. sketch maps, December 1974. *Available from:* U. S. Department of Transportation, U. S. Coast Guard, United States; National Weather Service, United States; National Aeronautics and Space Administration, United States. Includes 5 appendices.

57006673

Korzhikov, A. Ia., editor.

Estestvennye stadii razvitiia atmosfernoi tsirkulyatsii i dolgosrochnye meteorologicheskie progozy v Arktike i Antarktike [Natural stages of atmospheric circulation evolution and long-term meteorologic predictions in Arctic region and Antarctica]: **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 441, 221 p., illus., 1999. ISBN: 5-286-02264-7. Individual papers are cited separately.

57006678

Ryabkov, G. E. (Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation).

Ispol'zovanie troposferno-stratosfernykh svyazei v metode dolgosrochnykh meteorologicheskikh prognozov dlya Antarktiki [Applying troposphere-stratosphere connection in method of long-term meteorological prediction in Antarctica]: *in* Estestvennye stadii razvitiia atmosfernoi tsirkulyatsii i dolgosrochnye meteorologicheskie progozy v Arktike i Antarktike (Korzhikov, A. Ia., editor), **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 441, p. 52-58, illus. incl. 2 tables, 2 ref., 1999.

57006679

Ryzhakov, L. Iu. (Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation) and Rabtsevich, S. V.

Rezul'taty razrabotki metoda dolgosrochnykh meteorologicheskikh prognozov na zimu dlya Antarktiki [Results of developing method of long-term meteorological prediction for winter in Antarctica]: *in* Estestvennye stadii razvitiia atmosfernoi tsirkulyatsii i dolgosrochnye meteorologicheskie progozy v Arktike i Antarktike (Korzhikov, A. Ia., editor), **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 441, p. 59-72, illus. incl. 5 tables, 7 ref., 1999.

57006682

Ryabkov, G. E. (Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation). Vzaimosvyaz' vesenne-letnikh atmosfernykh makroprotsessov nad Antarktikoi s ledovymi usloviiami v Antarkticheskikh moryakh [Interconnection of spring-summer atmospheric macro processes over Antarctica with ice conditions in Southern Ocean]: *in* Estestvennye stadii razvitiia atmosfernoi tsirkulyatsii i dolgosrochnye meteorologicheskie progozy v Arkte i Antarktike (Korzhikov, A. Ia., editor), **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 441, p. 90-94, 2 tables, 4 ref., 1999.

57006685

Ryabkov, G. E. (Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation). Vlianie iavleniya El'-Nin'o; iuzhnoe kolebanie na formirovanie letnikh termobaricheskikh polei nad Antarktikoi [Influence of El Nino Southern Oscillation on summer thermo-barometric field formation over Antarctica]: *in* Estestvennye stadii razvitiia atmosfernoi tsirkulyatsii i dolgosrochnye meteorologicheskie progozy v Arkte i Antarktike (Korzhikov, A. Ia., editor), **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 441, p. 114-118, illus. incl. table, 7 ref., 1999.

57006692

Savitskii, G. B. (Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation). Prognozy pogody na srednie sroki dlya Antarktiki [Standard weather prognosis for Antarctica]: *in* Estestvennye stadii razvitiia atmosfernoi tsirkulyatsii i dolgosrochnye meteorologicheskie progozy v Arkte i Antarktike (Korzhikov, A. Ia., editor), **Trudy - Gosudarstvennyy Nauchnyy Tsentr Rossiiskoi Federatsii, Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut**, 441, p. 175-180, 11 ref., 1999.

58000108

Doyle, P. F. (Alberta Research Council, Transportation and Surface Water Engineering Division, Edmonton, AB, Canada) and Andres, D. D. 1978 breakup in the vicinity of Fort McMurray and investigation of two Athabasca River ice jams: Rep. No. SWE-78-5, 44 p., illus. incl. 3 tables, sketch maps, 12 ref., December 1978. Available from: Alberta Cooperative Research Program, Transportation and Surface Water Engineering, Edmonton, AB, Canada.

58000127

SeaTek Corporation.

Mooring and motion analysis of a round drill ship V; simulation and model test of survival sea conditions: SeaTek Corporation, Santa Barbara, CA, 14 p., illus., 4 ref., November 18, 1981. Includes appendix.

58000282

Samelson, Daniel.

A simple method for predicting snowpack water equivalent in the northeastern United States: **Northeast Regional Climate Center Research Publication**, Rep. No. RR 92-1, 151 p., 1992.

58000283

LeDrew, Ellsworth F., chairperson.

Remote sensing; integrating our view of the planet; proceedings: **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, 691 p., 2002. ISBN: 0-7803-7536-X; 0-7803-7537-8. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada. Individual papers are cited separately.

58000284

Farahani, E. (University of Toronto, Department of Physics, Toronto, ON, Canada); Melo, S. M. L.; Strong, K.; Bassford, M. R. and McLinden, C. A.

Measurements of stratospheric composition in the Canadian Arctic during spring 1999-2002 using a UV-visible spectrometer: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 51-53, illus., 5 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000287

Abbott, Keith (University of New Brunswick, Remote Sensing and GIS Research Group, Fredericton, NB, Canada); Leblon, Brigitte; Staples, Gordon; Alexander, M. E. and MacLean, Dave.

Use of RADARSAT-1 images of map forest fuel moisture over boreal forest: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 134-136, illus. incl. 3 tables, 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000288

Peterson, I. K. (Fisheries and Oceans Canada, Bedford Institute of Oceanography, Dartmouth, NS, Canada); Prinsenberg, S. J.; Holladay, J. S. and Lalumiere, L. A.

Validation of sea ice signatures in Radarsat scanSAR imagery for the Gulf of St. Lawrence: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 146-148, illus., 4 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000289

Labelle-Hamer, Nettie (University of Alaska, Geophysical Institute, Alaska SAR Facility, Fairbanks, AK); Kwok, Ronald; Cunningham, Glenn; Moore, Clifton and Barker, Edward, Jr.

RADARSAT geophysical processor system; 2 years of production: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 149-151, illus., 3 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000290

Piwowar, Joseph M. (University of Waterloo, Laboratory for Earth Observations, Waterloo, ON, Canada); LeDrew, Ellsworth F.; Brown, Ross; Goodison, Barry E.; Polanski, Marcin and Hirose, Tom.

The Canadian cryospheric information network; facilitating access to sea ice, lake ice, snow cover, permafrost, and glacier data: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 214-216, illus., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000291

Derkzen, C. (University of Waterloo, Department of Geography, Waterloo, ON, Canada); Walker, A. E.; LeDrew, Ellsworth F. and Goodison, Barry E.

Utilizing satellite snow cover data for climatological analysis; a comparison of passive microwave and optically derived time series, 1978-1995: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 217-219, illus. incl. 1 table, 8 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000292

Roy, V. (Université de Sherbrooke, CARTEL, Sherbrooke, PQ, Canada); Goita, K.; Royer, A.; Walker, A. E. and Goodison, Barry E.

Retrieval of snow water equivalent over boreal forest in Canada from passive microwave measurements using the HUT snow emission model: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 220-222, illus. incl. 3 tables, 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000293

Fortin, Jean-Pierre (INRS-Eau, Sainte-Foy, PQ, Canada); Bernier, Monique; Savary, Stéphane; El Battay, Ali and Khaldoune, Jalal.

New developments and results for snowcover monitoring using RADARSAT and VEGETATION data and the HYDROTEL hydrological model: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 223-226, illus., 7 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000294

Bernier, Monique (INRS-EAU, Sainte-Foy, PQ, Canada); Gauthier, Yves; Briand, Paul; Coulombe-Simoneau, Judith; Hurley, Jeff and Weber, Frank.

Radiometric correction of RADARSAT-1 images for mapping the snow water equivalent (SWE) in a mountainous environment: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 227-230, illus. incl. 1 table, 4 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000295

Agnew, Tom A. (Meteorological Service of Canada, Toronto, ON, Canada) and Howell, Stephen.

Comparison of digitized Canadian ice charts and passive microwave sea-ice concentrations: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 231-233, illus. incl. 1 table, 5 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000296

Yackel, J. J. (University of Calgary, Department of Geography, Calgary, AB, Canada) and Barber, David G.

Validation of a snow water equivalence algorithm over landfast first-year sea ice using RADARSAT-1: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 234-236, illus. incl. 1 table, 4 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000297

Soh, Leen-Kiat (University of Nebraska, Computer Science and Engineering, Lincoln, NE). Image processing techniques for describing sea ice features: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 309-311, 11 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000298

Cho, K. (Tokai University, Tokyo, Japan); Nakayama, M.; Shimoda, H.; Uratsuka, S.; Enomoto, H. and Honda, Y.

Preparation of multi-stage remote sensing for monitoring sea ice in the Okhotsk Sea with ALOS sensors: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 402-404, illus. incl. 1 table, 2 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000299

Harouche, Isabelle P. F. (University of Manitoba, Centre of Earth Observation Science, Winnipeg, MB, Canada) and Barber, David G.

On the seasonal evolution of thermophysical drivers and passive microwave emissions on first-year sea ice: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 452-453, illus., 13 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000300

Guo, Jianjun (University of Washington, Department of Electrical Engineering, Seattle, WA); Tsang Leung; Josberger, Edward and Hwang, Jenq-Neng.

Mapping the spatial distribution and time evolution of snow water equivalent with passive microwave measurements: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 454-456, illus., 3 ref., 2002. *Meeting*: 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000301

Klein, Marian (University of Colorado, CIRES, Boulder, CO); Gasiewski, A. J.; Irisov, Vladimir; Leuskiy, Vladimir and Yevgrafov, Aleksandr.

A wideband microwave airborne imaging system for hydrological studies: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 558-561, illus. incl. 1 table, 5 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000302

Hallikainen, Martti (Helsinki University of Technology, Laboratory of Space Technology, Helsinki, Finland); Halme, Pekka; Takala, Matias and Pulliainen, Jouni.

Effects of temperature and moisture of snow and soil on SSM/I response to snow: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 680-682, illus. incl. 4 tables, 1 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000303

Malnes, Eirik (NORUT IT, Tromso, Norway) and Guneriussen, Tore.

Mapping of snow covered area with Radarsat in Norway: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 683-685, illus., 9 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000304

Kelly, R. E. J. (University of Maryland, Goddard Earth Sciences and Technology Center, Baltimore, MD); Chang, A. T. C.; Tsang, L. and Chen, C. T.

Parameterization of snowpack grain size for global satellite microwave estimates of snow depth: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 686-688, illus. incl. 1 table, 7 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000305

Pulliainen, Jouni (Helsinki University of Technology, Laboratory of Space Technology, Helsinki, Finland); Takala, Matias and Hallikainen, Martti.

Assimilation of space-borne microwave radiometer and discrete ground-based data in snow depth mapping; a case study for northern Eurasia: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 689-691, illus., 5 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000306

Guo Huadong (Chinese Academy of Sciences, Institute of Remote Sensing Applications, Beijing, China) and Wang Changlin.

Study of environmental issues with ALOS PALSAR data: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 1, p. 396-398, illus., 5 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000419

Wood, J. E. (Canadian Forest Service, Victoria, BC); Gillis, M. D.; Goodenough, D. G.; Hall, R. J.; Leckie, Donald G.; Luther, J. E. and Wulder, Michael A.

Earth observation of sustainable development of forests (EOSD); project overview: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1299-1302, illus., 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000420

Wulder, Michael A. (Canadian Forest Service, Victoria, BC, Canada).

Mapping the land cover of the forested area of Canada with Landsat data: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1303-1306, 11 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000421

Leckie, Donald G. (Natural Resource Canada, Canadian Forest Service, Victoria, BC, Canada); Walsworth, Nicholas; Dechka, Jeff and Wulder, Mike.

An investigation of two data unsupervised classification in the context of a natural program for Landsat based forest change mapping: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1307-1311, 3 tables, 11 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000422

Lurhwe, J. E. (Canadian Forest Service, Corner Brook, NF, Canada); Fournier, R. A.; Hall, R. J.; Ung, C. H.; Guindon, L.; Piercey, D. E.; Lambert, M. C. and Beaudoin, A.

A strategy for mapping Canada's forest biomass with Landsat TM imagery: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1312-1315, illus., 10 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000423

Bhogal, A. S. Pal (Natural Resources Canada, Pacific Forestry Centre, Canada); Goodenough, D. G.; Chen, H.; Hobart, G.; Rancourt, B.; Murdoch, M.; Love, J. and Dyk, A.

Automated methods for atmospheric correction and fusion of multispectral satellite data for natural monitoring: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1316-1319, illus. incl. 3 tables, 9 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000424

Hall, R. J. (Natural Resources Canada, Canadian Forest Service, Edmonton, AB, Canada); Arsenault, E.; Price, D. T.; Guindon, L.; Fournier, R. A.; Case, B. S.; Luther, J. E. and Piercy, D. E.

Modeling and mapping forest biomass using forest inventory and Landsat TM data; results from the Foothills Model Forest, Alberta: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1320-1323, 2 tables, 19 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000425

Long, David G. (Brigham Young University, Provo, UT); Drinkwater, Mark and Holt, Benjamin.

The Scatterometer Climate Record Pathfinder: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1509-1511, illus., 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000427

König, Thomas (Deutsches Zentrum für Luft- und Raumfahrt, Wessling, Federal Republic of Germany); Niedermeier, Andreas and Lehner, Susanne.

Extracting sea ice parameters from SAR imagettes: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1515-1517, illus. incl. 2 tables, 7 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000428

Makynen, Marko (Helsinki University of Technology, Laboratory of Space Technology, Helsinki, Finland); Manninen, Terhikki; Simila, Markku; Karvonen, Juha and Hallikainen, Martti.

Incidence angle dependence of the mean C-band HH-polarization backscattering signatures of the Baltic Sea ice: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1518-1520, illus. incl. 3 tables, 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000429

Scheuchl, Bernd (University of British Columbia, Department of Electrical and Computer Engineering, Vancouver, BC, Canada); Hajnsek, Irena and Cumming, Ian G.

Model-based classification of polarimetric SAR sea ice data: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1521-1523, illus. incl. 2 tables, 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000430

Karvonen, Juha (Finnish Institute of Marine Research, Finland); Simila, Markku and Makynen, Marko.

An interactive incidence angle normalization algorithm for sea ice SAR images: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1524-1527, illus. incl. 1 table, 5 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000431

Sukhacheva, L. L. (Institute of Remote Sensing Methods for Geology, Saint Petersburg, Russian Federation); Bychkova, I. A. and Victorov, S. V.

Multiyear remotely sensed data in support of monitoring, management and protection of the eastern Gulf of Finland coastal zone: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1585-1587, illus., 3 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000433

Haas, C. (Alfred Wegener Institute of Polar and Marine Research, Bremerhaven, Federal Republic of Germany).

Validation of CryoSat sea-ice products; instruments and methods: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1753-1755, illus., 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000434

Forsberg, R. (National Survey and Cadastre, Geodynamics Department, Copenhagen, Denmark); Keller, K. and Jacobsen, S. M.

Airborne lidar measurements for Cryosat validation: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1756-1758, illus. incl. 1 table, 8 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000435

Francis, C. R. (ESA/ESTEC, Noordwijk, Netherlands).

Design of the CryoSat system: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1759-1761, 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000437

Raney, R. K. (Johns Hopkins University, Applied Physics Laboratory, Baltimore, MD) and Jensen, J. R.

An airborne CryoSat prototype; the D2P radar altimeter: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1765-1767, 1 table, 11 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000438

Rey, Laurent (Alcatel Space Industrie, Toulouse, France); de Château-Thierry, P.; Phalippou, L.; Mavrocordatos, Constantin and Francis, R.

SIRAL; the radar altimeter for Cryosat mission, under development: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1768-1770, illus. incl. 4 tables, 3 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000439

Steinmeir, C. (Swiss Federal Research Institute, Birmensdorf, Switzerland); Schwarz, M.; Holecz, F.; Stebler, O. and Wagner, S.

The evaluation of different sensors and techniques for the detection of storm damages in forests: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1774-1776, illus. incl. 2 tables, 2 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000440

Pullainen, Jouni (Helsinki University of Technology, Laboratory of Space Technology, Helsinki, Finland); Engdahl, M. and Hallikainen, Martti.

Estimation of boreal forest biomass from multi-temporal INSAR data by inverting an empirical backscattering-coherence model: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1786-1788, illus. incl. 1 table, 2 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000441

Delbart, Nicolas (Centre d'Etudes Spatiales del la Biosphère, Toulouse, France); Melon, Pierre; Florsch, Géraldine; Le Toan, Thuy and Martinez, Jean-Michel.

Forest biomass retrieval using L-band polarimetric measurements: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1789-1791, illus., 5 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000442

Fransson, Johan E. S. (Swedish University of Agricultural Sciences, Department of Forest Resource Management and Geomatics, Umea, Sweden); Magnusson, Mattias; Gustavsson, Anders; Smith, Gary; Ulander, Lars M. H. and Walter, Fredrik.

Detection of thinning cuttings using CARABAS-II VHF SAR data: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1792-1794, illus., 8 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000443

Connor, Lawrence N. (NOAA, Office of Research and Applications, Camp Springs, MD); Chang, Paul S.; Carswell, James R. and Castells, Toni.

Measurement of the ocean surface in low to moderate winds at C-band: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1837-1838, illus., 1 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000444

Wang, Xuanji (University of Wisconsin-Madison, Cooperative Institute for Meteorological Satellite Studies, Madison, WI) and Key, Jeffrey R.

Arctic climate characteristics and recent trends based on the AVHRR polar pathfinder data set: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1842-1844, illus., 10 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000445

Skofronick-Jackson, G. M. (University of Maryland, GEST Center, Greenbelt, MD); Weinman, J. A. and Chang, D. E.

Observation of snowfall over land by microwave radiometry from space: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1866-1868, illus., 8 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000446

Li, Xiaofeng (NOAA/NESDIS, Camp Springs, MD); Clemente-Colón, Pablo; Pichel, William G. and Friedman, Karen.

SAR and MODIS images of atmospheric solitary waves generated by upstream blocking in flow over St. Lawrence Island, Bering Sea: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1890-1892, illus., 8 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000447

Scheuchl, Bernd (University of British Columbia, Department of Electrical and Computer Engineering, Vancouver, BC, Canada); Hajnsek, Irena and Cumming, Ian G.

Sea ice classification using multi-frequency polarimetric SAR data: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1914-1916, illus. incl. 2 tables, 7 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000448

Tonboe, Rasmus (Danish Meteorological Institute, Copenhagen, Denmark) and Ezraty, Robert.

Monitoring of new-ice in Greenland waters: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1932-1934, illus., 9 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000449

Meier, Walter N. (U. S. Naval Academy, Oceanography Department, Annapolis, MD); Andersen, Soren and Bastar, Nathan.

Evaluation of SSM/I-derived sea ice concentrations with AVHRR imagery: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1935-1937, illus. incl. 3 tables, 9 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000450

Kern, Stefan (University of Hamburg, Institute of Oceanography, Hamburg, Federal Republic of Germany) and Kaleschke, Lars.

Two ice concentration algorithms benefitting from 85GHz special sensor microwave/imager data; a comparison: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1938-1940, illus. incl. 1 table, 11 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000453

Fraser, R. H. (Natural Resources Canada, Canada Centre for Remote Sensing, Ottawa, ON, Canada); Fernandes, R. and Latifovic, R.

Multi-temporal burned area mapping using logistic regression analysis and change metrics: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1486-1488, illus., 3 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000454

Abuelgasim, Abdelgadir (Intermap Technologies, Ottawa, ON, Canada) and Fraser, Robert.

Day and night-time active fire detection over North America using NOAA-16 AVHRR data: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1489-1491, illus., 4 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000455

Dankert, Heiko (GKSS Research Center, Geesthacht, Federal Republic of Germany); Horstmann, Jochen and Rosenthal, Wolfgang.

Detection of extreme waves using radar-image sequences: *in* Remote sensing; integrating our view of the planet; proceedings (LeDrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 3, p. 1831-1833, illus., 11 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, CA.

58000456

Raymond, Charles F. (University of Washington, Department of Earth and Space Sciences, Seattle, WA) and van der Veen, Kees, prefacers.

Papers from the International symposium on Fast glacier flow: **Annals of Glaciology**, 36, 300 p., illus. incl. tables, sketch maps, 2003. ISBN: 0-946417-31-8. *Meeting:* June 10-14, 2002, Yakutat, AK. Individual papers within scope are cited separately.

58000457

Harrison, William D. (University of Alaska, Geophysical Institute, Fairbanks, AK) and Post, Austin S.

How much do we really know about glacier surging?: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 1-6, illus., 49 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK. NSF Grant OPP-9977796.

58000458

Nolan, Matt (University of Alaska at Fairbanks, Water and Environmental Research Center, Fairbanks, AK).

The “galloping glacier” trots; decadal-scale speed oscillations within the quiescent phase: *in Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; et al.), Annals of Glaciology*, 36, p. 7-13, illus. incl. sketch map, 17 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000459

Lingle, Craig S. (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK) and Fatland, Dennis R.

Does englacial water storage drive temperature glacier surges?: *in Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; et al.), Annals of Glaciology*, 36, p. 14-20, illus. incl. sketch maps, 33 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000460

Ford, Andrew L. J. (University of Utah, Department of Geography, Salt Lake City, UT); Forster, Richard R. and Bruhn, Ronald L.

Ice surface velocity patterns on Seward Glacier, Alaska/Yukon, and their implications for regional tectonics in the Saint Elias Mountains: *in Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; et al.), Annals of Glaciology*, 36, p. 21-28, illus., 26 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000461

Fatland, Dennis R. (Vexcel Corporation, Boulder, CO); Lingle, Craig S. and Truffer, Martin.

A surface motion survey of Black Rapids Glacier, Alaska, U.S.A.: *in Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; et al.), Annals of Glaciology*, 36, p. 29-36, illus. incl. sketch map, 16 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000462

Roush, James J. (University of Alaska Fairbanks, Geophysical Institute, Fairbanks, AK); Lingle, Craig S.; Guritz, Richard M.; Fatland, Dennis R. and Voronina, Vera A.

Surge-front propagation and velocities during the early-1993-95 surge of Bering Glacier, Alaska, U.S.A., from sequential SAR imagery: *in Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; et al.), Annals of Glaciology*, 36, p. 37-44, illus. incl. sketch maps, 25 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000463

Trabant, Dennis C. (U. S. Geological Survey, Fairbanks, AK); Krimmel, Robert M.; Echelmeyer, Keith A.; Zirnheld, Sandra L. and Elsberg, Daniel H.

The slow advance of a calving glacier; Hubbard Glacier, Alaska, U.S.A.: *in Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; et al.), Annals of Glaciology*, 36, p. 45-50, illus. incl. sketch maps, 25 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000464

Barclay, David J. (State University of New York College at Cortland, Department of Geology, Cortland, NY); Wiles, Gregory C. and Calkin, Parker E.

An 850 year record of climate and fluctuations of the iceberg-calving Nellie Juan Glacier, south central Alaska, U.S.A.: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 51-56, illus. incl. 2 tables, 27 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK. NSF Grant OPP-9912124.

58000465

Motyka, Ramon J. (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK); Hunter, Lewis; Echelmeyer, Keith A. and Connor, Cathy.

Submarine melting at the terminus of a temperate tidewater glacier, LeConte Glacier, Alaska, U.S.A.: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 57-65, illus. incl. 5 tables, sketch map, 25 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK. NSF Grant OPP-9877057. CRREL Report No: ERDC/CRREL MP-03-6098

58000467

Copeland, Luke (University of Alberta, Department of Earth and Atmospheric Sciences, Edmonton, AB, Canada); Sharp, Martin J. and Dowdeswell, Julian A.

The distribution and flow characteristics of surge-type glaciers in the Canadian High Arctic: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 73-81, illus. incl. 2 tables, sketch map, 29 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000468

Bjornsson, Helgi (University of Iceland, Science Institute, Reykjavik, Iceland); Palsson, Finnur; Sigurdsson, Oddur and Flowers, Gwenn E.

Surges of glaciers in Iceland: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 82-90, illus. incl. 1 table, sketch map, 39 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK. NSF Grant NSF-INT-0000425.

58000469

Gudmundsson, G. Hilmar (British Antarctic Survey, National Environment Research Council, Cambridge, United Kingdom); Adalgeirsdottir, Gudfinna and Bjornsson, Helgi.

Observational verification of predicted increase in bedrock-to-surface amplitude transfer during a glacial surge: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 91-96, illus. incl. sketch map, 13 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK. Includes appendix.

58000470

Hansen, Siri (University of Copenhagen, Institute of Geography, Copenhagen, Denmark).

From surge-type to non-surge-type glacier behaviour; midre Lovenbreen, Svalbard: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 97-102, illus. incl. sketch map, 36 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000471

Kulessa, Bernd (Queen's University of Belfast, School of Civil Engineering, Belfast, United Kingdom) and Murray, Tavi.

Slug-test derived differences in bed hydraulic properties between a surge-type and a non-surge-type Svalbard glacier: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 103-109, illus. incl. 2 tables, sketch map, 25 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000472

Murray, Tavi (University of Leeds, School of Geography, Leeds, United Kingdom); Luckman, Adrian; Strozzi, Tazio and Nuttall, Anne-Marie.

The initiation of glacier surging at Fridtjovbreen, Svalbard: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 110-116, illus. incl. 1 table, sketch map, 30 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000473

Boulton, Geoffrey S. (University of Edinburgh, Department of Geology and Geophysics, Edinburgh, United Kingdom); Hagdorn, Magnus and Hulton, Nicholas R. J.

Streaming flow in an ice sheet through a glacial cycle: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 117-128, illus. incl. sketch maps, 36 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000474

Luckman, Adrian (University of Wales, Department of Geography, Swansea, United Kingdom); Murray, Tavi; Jiskoot, Hester; Pritchard, Hamish and Strozzi, Tazio.

ERS SAR feature-tracking measurement of outlet glacier velocities on a regional scale in East Greenland: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 129-134, illus. incl. 2 tables, 20 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000475

Alley, Richard B. (Pennsylvania State University, Department of Geosciences, University Park, PA); Lawson, Daniel E.; Evenson, Edward B. and Larson, Grahame J.

Sediment, glaciohydraulic supercooling, and fast glacier flow: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 135-141, illus., 58 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK. NSF Grant OPP-0126187 and OPP-9814774. CRREL Report No: ERDC/CRREL MP-03-6096

58000476

Jiskoot, Hester (University of Calgary, Department of Geography, Calgary, AB, Canada); Murray, Tavi and Luckman, Adrian.

Surge potential and drainage-basin characteristics in East Greenland: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 142-148, illus. incl. 3 tables, sketch map, 30 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000477

Prescott, Paul R. (University of Maine, Bryand Global Science Center, Orono, ME); Kenneally, James P. and Hughes, Terence J.

Relating crevassing to non-linear strain in the floating part of Jakobshavn Isbrae, West Greenland: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 149-156, illus. incl. sketch map, 25 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000478

Willis, Ian (University of Cambridge, Department of Geography, Cambridge, United Kingdom); Mair, Douglas; Hubbard, Bryn; Nienow, Peter; Fischer, Urs H. and Hubbard, Alun. Seasonal variations in ice deformation and basal motion across the tongue of Haut Glacier d'Arolla, Switzerland: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 157-167, illus. incl. 4 tables, 27 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000479

Diolaiuti, Guglielmina (Università di Milano, Dipartimento di Scienze della Terra, Milan, Italy); Pecci, Massimo and Smiraglia, Claudio.

Liligo Glacier, Karakoram, Pakistan; a reconstruction of the recent history of a surge-type glacier: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 168-172, illus. incl. 2 tables, sketch map, 28 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000480

Warren, Charles R. (University of St. Andrews, School of Geography and Geosciences, St. Andrews, United Kingdom) and Kirkbride, Martin P.

Calving speed and climatic sensitivity of New Zealand lake-calving glaciers: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 173-178, illus. incl. 1 table, sketch map, 34 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000481

Eijpen, Kim Jardine (University of St. Andrews, School of Geography and Geosciences, St. Andrews, United Kingdom); Warren, Charles R. and Benn, Douglas I.

Subaqueous melt rates at calving termini; a laboratory approach: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 179-183, illus., 17 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000482

Skvarca, Pedro (Instituto Antártico Argentino, Buenos Aires, Argentina); Raup, Bruce and de Angelis, Hernán.

Recent behaviour of Glaciar Upsala, a fast-flowing calving glacier in Lago Argentino, southern Patagonia: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 184-188, illus. incl. 1 table, sketch map, 24 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK.

58000483

Rippin, David M. (University of Bristol, School of Geographical Sciences, Bristol, United Kingdom); Siegert, Martin J. and Bamber, Jonathan L.

The englacial stratigraphy of Wilkes Land, East Antarctica, as revealed by internal radio-echo sounding layering, and its relationship with balance velocities: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 189-196, illus. incl. sketch map, 25 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK.

58000484

Vieli, Andreas (University of Bristol, School of Geographical Sciences, Bristol, United Kingdom) and Payne, Antony J.

Application of control methods for modelling the flow of Pine Island Glacier, West Antarctica: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 197-204, illus. incl. 1 table, sketch map, 23 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK.

58000485

Rabus, Bernhard T. (German Remote Sensing Center, Wessling, Federal Republic of Germany) and Lang, Oliver.

Interannual surface velocity variations of Pine Island Glacier, West Antarctica: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 205-214, 18 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK.

58000486

Rabus, Bernhard T. (German Remote Sensing Center, Wessling, Federal Republic of Germany); Lang, Oliver and Adolpfs, Ute.

Interannual velocity variations and recent calving of Thwaites Glacier tongue, West Antarctica: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 215-224, illus. incl. 2 tables, sketch map, 14 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK.

58000487

Vaughn, David G. (British Antarctic Survey, Natural Environment Research Council, Cambridge, United Kingdom); Smith, Andrew M.; Nath, P. Chandrika and Le Meur, Emmanuel.

Acoustic impedance and basal shear stress beneath four Antarctic ice streams: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 225-232, illus. incl. 3 tables, sketch map, 32 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK.

58000488

Christoffersen, Poul (Technical University of Denmark, Department of Civil Engineering, Lyngby, Denmark) and Tulaczyk, Slawek.

Thermodynamics of basal freeze-on; predicting basal and subglacial signatures of stopped ice streams and interstream ridges: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 233-243, illus. incl. 2 tables, sketch map, 65 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK. NSF Grants OPP-9873593 and OPP-0096302.

58000489

Hulbe, Christina L. (Portland State University, Department of Geology, Portland); Wang, Weili; Joughin, Ian R. and Siegert, Martin J.

The role of lateral and vertical shear in tributary flow towards a West Antarctic ice stream: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 244-250, illus. incl. sketch map, 31 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK. NSF Grant OPP-0105308.

58000490

Parizek, Byron R. (Pennsylvania State University, Department of Geosciences, University Park, PA); Alley, Richard B. and Hulbe, Christina L.

Subglacial thermal balance permits ongoing grounding-line retreat along the Siple Coast of West Antarctica: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 251-256, illus. incl. 1 table, 36 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK. NSF Grants OPP-0126187 and OPP-9814774.

58000491

Joughin, Ian R. (Jet Propulsion Laboratory, Pasadena, CA); Tulaczyk, Slawek and Engelhardt, Hermann F.

Basal melt beneath Whillans ice stream and ice streams A and C, West Antarctica: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 257-262, illus. incl. 3 tables, sketch map, 36 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK. NSF Grant OPP-0096302.

58000492

Bindschadler, Robert A. (NASA, Goddard Space Flight Center, Greenbelt, MD); Vornberger, Patricia L.; King, Matt A. and Padman, Laurie.

Tidally driven stick-slip motion in the mouth of Whillans ice stream, Antarctica: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 263-272, illus. incl. 1 table, sketch map, 20 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK. NSF Grants OPP-9616394 and OPP-9896006.

58000493

Vogel, Stefan W. (University of California at Santa Cruz, Department of Earth Sciences, Santa Cruz, CA); Tulaczyk, Slawek and Joughin, Ian R.

Distribution of basalt melting and freezing beneath tributaries of Ice Stream C; implication for the Holocene decay of the West Antarctic ice sheet: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 273-282, illus. incl. 3 tables, sketch map, 45 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK. NSF Grants OPP-9873593 and OPP-0096302.

58000494

Anandakrishnan, Sridhar (Pennsylvania State University, Department of Geosciences, University Park, PA).

Dilatant till layer near the onset of streaming flow of Ice Stream C, West Antarctica, determined by AVO (amplitude vs offset) analysis: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 283-286, illus. incl. sketch map, 19 ref., 2003. *Meeting*: June 10-14, 2002, Yakutat, AK. NSF Grants OPP-9996262 and OPP-9725708.

58000495

Catania, Ginny A. (University of Washington, Department of Earth and Space Sciences, Seattle, WA); Conway, Howard B.; Gades, Anthony M.; Raymond, Charles F. and Engelhardt, Hermann F.

Bed reflectivity beneath inactive ice streams in West Antarctica: *in* Papers from the International symposium on Fast glacier flow (Raymond, Charles F., prefacer; *et al.*), **Annals of Glaciology**, 36, p. 287-291, illus. incl. sketch map, 19 ref., 2003. *Meeting:* June 10-14, 2002, Yakutat, AK. NSF Grants OPP-9909469, OPP-9615347 and OPP-0615420.

58000497

Johnston, M. (National Research Council of Canada, Canadian Hydraulics Centre, Ottawa, ON, Canada); Timco, G. and Frederking, R.

Ice loads measured on an instrumented pier of the St. Regis Bridge, 1990 to 1998: **Controlled Technical Report - Canadian Hydraulics Centre**, Rep. No. HYD-CTR-106, unpaginated, illus. incl. 2 tables, sketch map, 25 ref., May 2001. Includes appendices.

58000514

Koivurova, Timo (University of Lapland, Northern Institute for Environmental and Minority Law Arctic Centre, Rovaniemi, Finland).

Environmental impact assessment in the Arctic; a study of international legal norms: Ashgate Publishing, Aldershot, United Kingdom, 448 p., sketch maps, 255 ref., 2002. ISBN: 0-7546-2283-5. Doctoral thesis, University of Lapland, Rovaniemi, Finland, 2001.

58000515

Majorowicz, J. A. (Northern Geothermal Consultants, Edmonton, AB, Canada) and Hannigan, P. K.

Natural gas hydrates in the offshore Beaufort-Mackenzie Basin; study of a feasible energy source II: **Natural Resources Research (International Association for Mathematical Geology)**, 9(3), p. 201-214, illus. incl. 1 table, geol. sketch maps, 28 ref., September 2000.

58000516

O'Neill, Kevin (ERDC Cold Regions Research and Engineering Laboratory, Hanover, NH).

Discrimination of UXO in soil using broadband polarimetric GPR backscatter: **IEEE Transactions on Geoscience and Remote Sensing**, 39(2), p. 356-367, illus., 25 ref., February 2001. CRREL Report No: ERDC/CRREL MP-03-6092

58000517

Hall, Dorothy K. (NASA, Goddard Space Flight Center, Greenbelt, MD); Foster, James L.; Salomonson, Vincent V.; Klein, Andrew G. and Chien, J. Y. L.

Development of a technique to assess snow-cover mapping errors from space: **IEEE Transactions on Geoscience and Remote Sensing**, 39(2), p. 432-438, illus. incl. 4 tables, geol. sketch maps, 33 ref., February 2001.

58000518

Oele, Erno (Kagerdreef 188, Sassenheim, Netherlands).

Ontwikkelingen in de Kwartair-geologische opvattingen over ons land na Starings proefschrift van 1833; de periode van Staring tot Lorie [Quaternary geology concept evolution from papers on Starling's land, 1833; the period of Staring to Lorie]: **Grondboor en Hamer**, 55(1), p. 16-21, illus., 28 ref., 2001.

58000519

Laberg, Jan Sverre (Universitetet i Tromso, Tromso, Norway) and Corner, Geoffrey D.
Et ras i Balsfjorden i Troms sommeren 1999 [Landslides in Balsfjorden, Troms, summer of 1999]: **Naturen**, 125(1), p. 17-22, illus., 2001.

58000520

Davis, Curtis H. (University of Missouri, Department of Electrical Engineering, Rollo MO); Belu, Radian G. and Feng, Gang.
Elevation change measurements of the East Antarctic ice sheet, 1978 to 1988, from satellite radar altimetry: **IEEE Transactions on Geoscience and Remote Sensing**, 39(3), p. 635-644, illus. incl. 2 tables, 31 ref., March 2001.

58000521

Chalise, Suresh Raj (ICIMOD, Mountain Natural Resources Division, Kathmandu, Nepal) and Khanal, N. R.

Rainfall and related natural disasters in Nepal: *in* Landslide hazard mitigation in the Hindu Kush-Himalayas (Li, Tianchi, editor; *et al.*), International Centre for Integrated Mountain Development, Kathmandu, Nepal, p. 63-70, 1 table, 40 ref., 2001.

58000522

Thapa, K. B. (Tribhuvan University, Central Department of Hydrology and Meteorology, Kathmandu, Nepal).

Water-induced disasters in the Himalaya; case study of an extreme weather event in central Nepal: *in* Landslide hazard mitigation in the Hindu Kush-Himalayas (Li, Tianchi, editor; *et al.*), International Centre for Integrated Mountain Development, Kathmandu, Nepal, p. 71-78, illus. incl. 5 tables, sketch maps, 5 ref., 2001.

58000523

Kelley, Joseph T. (University of Maine, Department of Geological Sciences, Orono, ME); Belknap, Daniel F.; FitzGerald, Duncan M. and Boothroyd, Jon C.

Quaternary sea-level change and coastal evolution in eastern Maine: *in* Guidebook for geological field trips in New England (West, David P., Jr., editor; *et al.*), Geological Society of America, p. A1-A31, illus. incl. sects., strat. cols., geol. sketch maps, 112 ref., 2001.

58000524

Allen, Timothy T. (Keene State College, Keene, NH); Creasy, John W.; Davis, P. Thompson; Eusden, J. Dykstra; Fowler, Brian K. and Thompson, Woodrow B.

The Notches; bedrock and surficial geology of New Hampshire's White Mountains: *in* Guidebook for geological field trips in New England (West, David P., Jr., editor; *et al.*), Geological Society of America, p. C1-C33, illus. incl. sect., geol. sketch maps, 134 ref., 2001.

58000525

Colgan, Patrick M. (Northeastern University, Department of Geology, Boston, MA) and Rosen, Peter S.

Quaternary environments and history of Boston Harbor, Massachusetts: *in* Guidebook for geological field trips in New England (West, David P., Jr., editor; *et al.*), Geological Society of America, p. I1-I20, illus. incl. 1 table, geol. sketch maps, 54 ref., 2001.

58000526

Evans, D. (British Geological Survey, Edinburgh, United Kingdom); McGiveron, S.; Harrison, Z.; Bryn, P. and Berg, K.

Along-slope variation in the late Neogene evolution of the mid-Norwegian margin in response to uplift and tectonism: *in* Exhumation of the North Atlantic margin; timing, mechanisms and implications for petroleum exploration (Doré, A. G., editor; *et al.*), **Geological Society Special Publications**, 196, p. 139-151, illus. incl. sects., strat. col., geol. sketch maps, 55 ref., 2002.

58000527

Stroeven, Arjen P. (Stockholm University, Department of Physical Geography and Quaternary Geology, Stockholm, Sweden); Fabel, Derek; Hattestrand, Clas and Kleman, Johan.

Reconstructing the erosion history of glaciated passive margins; applications of in situ produced cosmogenic nuclide techniques: *in* Exhumation of the North Atlantic margin; timing, mechanisms and implications for petroleum exploration (Doré, A. G., editor; *et al.*), **Geological Society Special Publications**, 196, p. 153-168, illus. incl. geol. sketch maps, 86 ref., 2002.

58000528

Faleide, Jan Inge (University of Oslo, Department of Geology, Oslo, Norway); Kyrkjebo, Rune; Kjengerud, Tomas; Gabrielsen, Roy H.; Jordt, Henrik; Fanavoll, Stein and Bjerke, Morten D.

Tectonic impact on sedimentary processes during Cenozoic evolution of the northern North Sea and surrounding areas: *in* Exhumation of the North Atlantic margin; timing, mechanisms and implications for petroleum exploration (Doré, A. G., editor; *et al.*), **Geological Society Special Publications**, 196, p. 235-269, illus. incl. sects., strat. col., geol. sketch maps, 160 ref., 2002.

58000529

Pearce, Fred.

Pollution is plunging us into darkness: **New Scientist (1971)**, 176(2373), p. 6-7, illus., December 14, 2002.

58000530

Jones, Nicola.

How to run on thin air: **New Scientist (1971)**, 176(2373), p. 17, illus., December 14, 2002.

58000531

Jones, Nicola.

Holes in ice threaten to let greenhouse gas escape from the ocean's depth: **New Scientist (1971)**, 176(2373), p. 17, December 14, 2002.

58000532

Ananthaswamy, Anil.

Theories flow for rivers on Mars: **New Scientist (1971)**, 176(2373), p. 22, illus., December 14, 2002.

58000533

Junge, Martina M. (University of Reading, Department of Meteorology, Reading, United Kingdom) and Stephenson, David B.

Mediated and direct effects of the North Atlantic Ocean on winter temperatures in Northwest Europe: **International Journal of Climatology**, 23(3), p. 245-261, illus. incl. 4 tables, sketch maps, 23 ref., March 15, 2003.

58000534

Mölg, Thomas (University of Innsbruck, Department of Geography, Innsbruck, Austria); Georges, Christian and Kaser, Georg.

The contribution of increased incoming shortwave radiation to the retreat of the Rwenzori glaciers, East Africa, during the 20th century: **International Journal of Climatology**, 23(3), p. 291-303, illus. incl. 2 tables, sketch maps, 36 ref., March 15, 2003.

58000535

Glennie, K. W. (University of Aberdeen, Department of Geology and Petroleum, Aberdeen, United Kingdom); Singhvi, A. K.; Lancaster, N. and Teller, J. T.

Quaternary climatic changes over southern Arabia and the Thar Desert, India: *in* The tectonic and climatic evolution of the Arabian Sea region (Clift, Peter D., editor; *et al.*), **Geological Society Special Publications**, 195, p. 301-316, illus. incl. 1 table, geol. sketch map, 83 ref., 2002. *Meeting:* Special meeting of the Tectonic Studies, Marine Studies and Petroleum groups of the Geological Society of London, April 4-5, 2001, London, United Kingdom.

58000536

Jung, Simon J. A. (Free University Amsterdam, Department of Isotope Geology, Amsterdam, Netherlands); Ivanova, Ekaterina; Reichart, Gert Jan; Davies, Gareth R.; Ganssen, Gerald; Kroon, Dick and van Hinte, Jan E.

Centennial-millennial-scale monsoon variations off Somalia over the last 35 Ka: *in* The tectonic and climatic evolution of the Arabian Sea region (Clift, Peter D., editor; *et al.*), **Geological Society Special Publications**, 195, p. 341-352, illus. incl. 1 table, geol. sketch maps, 42 ref., 2002. *Meeting:* Special meeting of the Tectonic Studies, Marine Studies and Petroleum groups of the Geological Society of London, April 4-5, 2001, London, United Kingdom.

58000537

Reichart, Gert Jan (Utrecht University, Institute of Earth Sciences, Utrecht, Netherlands); Nortier, Juriaan; Versteegh, Gerard and Zachariasse, Willem Jan.

Periodical breakdown of the Arabian Sea oxygen minimum zone caused by deep convective mixing: *in* The tectonic and climatic evolution of the Arabian Sea region (Clift, Peter D., editor; *et al.*), **Geological Society Special Publications**, 195, p. 407-419, illus. incl. 1 table, geol. sketch map, 68 ref., 2002. *Meeting:* Special meeting of the Tectonic Studies, Marine Studies and Petroleum groups of the Geological Society of London, April 4-5, 2001, London, United Kingdom.

58000538

von Rad, Ulrich (Bundesanstalt für Geowissenschaften und Rohstoffe, Hanover, Federal Republic of Germany); Burgath, Klaus-Peter; Pervaz, Muhammad and Schulz, Hartmut.

Discovery of the Toba Ash (c. 70 ka) in a high-resolution core recovering millennial monsoonal variability off Pakistan: *in* The tectonic and climatic evolution of the Arabian Sea region (Clift, Peter D., editor; *et al.*), **Geological Society Special Publications**, 195, p. 445-461, illus. incl. 2 tables, geol. sketch map, 47 ref., 2002. *Meeting:* Special meeting of the Tectonic Studies, Marine Studies and Petroleum groups of the Geological Society of London, April 4-5, 2001, London, United Kingdom.

58000539

Chandler, David L.

NASA shifts focus to ice impact risk: **New Scientist** (1971), 177(2384), p. 6, illus., March 1, 2003.

58000540

Saleska, Scott R. (University of California at Berkeley, Energy and Resources Group, Berkeley, CA); Shaw, M. Rebecca; Fischer, Marc L.; Dunne, Jennifer A.; Still, Christopher J.; Holman, Melisa L. and Harte, John.

Plant community composition mediates both large transient decline and predicted long-term recovery of soil carbon under climate warming: **Global Biogeochemical Cycles**, 16(4), 18 p., illus. incl. 7 tables, sketch map, 62 ref., December 2002.

58000541

Ganachaud, Alexandre (Institut de Recherche pour le Développement, Laboratoire d'Etudes Géophysiques et d'Océanographie Spatiale, Toulouse, France) and Wunsch, Carl. Oceanic nutrient and oxygen transports and bounds on export production during the World Ocean Circulation Experiment: **Global Biogeochemical Cycles**, 16(4), 14 p., illus. incl. 5 tables, sketch maps, 45 ref., December 2002.

58000542

King, J. Y. (University of California at Irvine, Department of Earth System Science, Irvine, CA); Reeburgh, W. S.; Thieler, K. K.; Kling, G. W.; Loya, W. M.; Johnson, L. C. and Nadelhoffer, K. J.

Pulse-labeling studies of carbon cycling in Arctic tundra ecosystems; the contribution of photosynthates to methane emission: **Global Biogeochemical Cycles**, 16(4), 8 p., illus., 60 ref., December 2002.

58000543

Dudleston, Khrystyne N. (University of Alaska, Department of Biological Sciences, Anchorage, AK); Kinney, Monica A.; Kiene, Ronald P. and Hines, Mark E.

Anaerobic microbial biogeochemistry in a northern bog; acetate as a dominant metabolic end product: **Global Biogeochemical Cycles**, 16(4), 9 p., illus. incl. 2 tables, 37 ref., December 2002.

58000544

Popp, Brian N. (University of Hawaii, Department of Geology and Geophysics, Honolulu, HI); Westley, Marian B.; Toyoda, Sakae; Miwa, Tatsuya; Dore, John E.; Yoshida, Naohiro; Rust, Terri M.; Sansone, Francis J.; Russ, Mary E.; Ostrom, Nathaniel E. and Ostrom, Peggy H.

Nitrogen and oxygen isotopomeric constraints on the origins and sea-to-air flux of N_2O in the oligotrophic subtropical North Pacific gyre: **Global Biogeochemical Cycles**, 16(4), 10 p., December 2002. SOEST Contrib. No. 5970.

58000545

Ridgwell, Andy J. (University of East Anglia, School of Environmental Sciences, Norwich, United Kingdom); Watson, Andrew J. and Archer, David E.

Modeling the response of the oceanic Si inventory to perturbation, and consequences for atmospheric CO_2 : **Global Biogeochemical Cycles**, 16(4), 25 p., illus. incl. 6 tables, 137 ref., December 2002. Includes appendix.

58000546

Sabine, C. L. (University of Washington, Joint Institute for the Study of Atmosphere and Ocean, Seattle, WA); Feely, R. A.; Key, Robert M.; Bullister, J. L.; Millero, F. J.; Lee, K.; Peng, T. H.; Tilbrook, B.; Ono, T. and Wong, C. S.

Distribution of anthropogenic CO₂ in the Pacific Ocean: **Global Biogeochemical Cycles**, 16(4), 17 p., illus. incl. 2 tables, sketch maps, 68 ref., December 2002. JISAO Contrib. No. 863; PMEL Contrib. No. 2378.

58000547

Francois, Roger (Woods Hole Oceanographic Institution, Woods Hole, MA); Honjo, Susumu; Krishfield, Richard and Manganini, Steve.

Factors controlling the flux of organic carbon to the bathypelagic zone of the ocean: **Global Biogeochemical Cycles**, 16(4), 20 p., illus. incl. 2 tables, sketch map, 71 ref., December 2002. WHOI Contrib. No. 10628; US JGOFS Contrib. No. 715.

58000548

Sowers, Todd (Pennsylvania State University, Department of Geosciences, University Park, PA); Rodebaugh, Amy; Yoshida, Naohiro and Toyoda, Sakae.

Extending records of the isotopic composition of atmospheric N₂O back to 1800 A.D. from air trapped in snow at the South Pole and the Greenland Ice Sheet Project II ice core: **Global Biogeochemical Cycles**, 16(4), 10 p., illus. incl. 2 tables, 36 ref., December 2002. NSF Grant OPP-9526556.

58000549

Brovkin, Victor (Potsdam-Institut für Klimafolgenforschung, Potsdam, Federal Republic of Germany); Bendtsen, Jorgen; Claussen, Martin; Ganopolski, Andrey; Kubatzki, Claudia; Petoukhov, Vladimir and Andreev, Andrei.

Carbon cycle, vegetation, and climate dynamics in the Holocene; experiments with the CLIMBER-2 model: **Global Biogeochemical Cycles**, 16(4), 20 p., illus. incl. 3 tables, 75 ref., December 2002. Includes appendix.

58000550

Mollenhauer, Gesine (University of Bremen, Bremen, Federal Republic of Germany); Schneider, Ralph R.; Müller, Peter J.; Spiess, Volkhard and Wefer, Gerold.

Glacial/interglacial variability in the Benguela upwelling system; spatial distribution and budgets of organic carbon accumulation: **Global Biogeochemical Cycles**, 16(4), 15 p., illus. incl. 2 tables, sect., geol. sketch maps, 52 ref., December 2002. Son der forschungsberich 261 Contrib. No. 350.

58000551

Delitsky, Mona L. (Jet Propulsion Laboratory, Pasadena, CA) and Lane, Arthur L.
Saturn's inner satellites; ice chemistry and magnetosphere effects: **Journal of Geophysical Research, E, Planets**, 107(11), 17 p., illus. incl. 6 tables, 122 ref., November 25, 2002.

58000552

Nakamura, Takasumi (University of Tokyo, Department of Earth and Planetary Sciences, Tokyo, Japan) and Tajika, Eiichi.

Stability of the Martian climate system under the seasonal change condition of solar radiation: **Journal of Geophysical Research, E, Planets**, 107(11), 10 p., illus., 25 ref., November 25, 2002.

58000553

Schuh, C. A. (Northwestern University, Department of Material Science and Engineering, Evanston, IL) and Dunand, D. C.

Transformation superplasticity of water ice and ice containing SiO₂ particulates: **Journal of Geophysical Research, E, Planets**, 107(11), 10 p., illus., 46 ref., November 25, 2002.

58000554

Schlundt, Erland M. (Dartmouth College, Thayer School of Engineering, Hanover, NH). On the origin of a wedge crack within the icy crust of Europa: **Journal of Geophysical Research, E, Planets**, 107(11), 9 p., illus. incl. table, 60 ref., November 25, 2002. Includes appendices.

58000555

Arcone, Steven A. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Prentice, Michael L. and Delaney, Allan J.

Stratigraphic profiling with ground-penetrating radar in permafrost; a review of possible analogs for Mars: **Journal of Geophysical Research, E, Planets**, 107(11), 14 p., illus., 31 ref., November 25, 2002. CRREL Report No: ERDC/CRREL MP-03-6093

58000556

Borucki, Jerome G. (NASA, Ames Research Center, Moffett Field, CA); Khare, Bishun and Cruikshank, Dale P.

A new energy source for organic synthesis in Europa's surface ice: **Journal of Geophysical Research, E, Planets**, 107(11), 5 p., illus., 19 ref., November 25, 2002.

58000557

Robertson, Jessica Anne. The oxygen isotope composition of precipitation, soil water and soil CO₂

; seasonal trends in central Washington State: 98 p., illus. incl. 9 tables, 44 ref., Master's, July 2001, Central Washington University, Ellensburg, WA.

58000558

Barnes, David (British Antarctic Survey, Cambridge, United Kingdom).

Polar punches and tropical truces: **Planet Earth**, Winter 2002, p. 5, illus., 2002.

58000559

Hoyer, Kirsten (Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, Federal Republic of Germany).

Occurrence, induction and physiological importance of UV-absorbing substances in polar macroalgae: **Berichte zur Polar- und Meeresforschung = Reports on Polar and Marine Research**, 440, 155 p. (German sum.), illus. incl. tables, sketch maps, 221 ref., 2003.

58000560

Neumann, Gregory A. (Massachusetts Institute of Technology, Department of Earth, Atmospheric, and Planetary Sciences, Cambridge, MA); Smith, David E. and Zuber, Maria T.

Two Mars years of clouds detected by the Mars Orbiter Laser Altimeter: **Journal of Geophysical Research, E, Planets**, 108(4), 17 p., illus. incl. 2 tables, 54 ref., April 25, 2003.

58000561

Colaprete, Anthony (NASA, Ames Research Center, Laboratory for Atmospheric and Space Physics, Moffett Field, CA) and Toon, Owen B.

Carbon dioxide clouds in an early dense Martian atmosphere: **Journal of Geophysical Research, E, Planets**, 108(4), 23 p., illus. incl. 1 table, 22 ref., April 25, 2003.

58000562

Mangold, N. (Université Paris-Sud et CNRS, Orsay, France); Costard, F. and Forget, F.
Debris flows over sand dunes on Mars; evidence for liquid water: **Journal of Geophysical Research, E, Planets**, 108(4), 13 p., illus. incl. 1 table, 35 ref., April 25, 2003.

58000563

MacClune, Karen Lewis (SS Paradopulos and Associates, Boulder, CO); Fountain, Andrew G.; Kargel, Jeffery S. and MacAyeal, Douglas R.
Glaciers of the McMurdo dry valleys; terrestrial analog for Martian polar sublimation: **Journal of Geophysical Research, E, Planets**, 108(4), 12 p., illus. incl. 2 tables, 43 ref., April 25, 2003.

58000564

Wu, C. Y. Robert (University of Southern California, Space Sciences Center, Los Angeles, CA); Judge, D. L.; Cheng, Bing-Ming; Yih, Tai-Sone; Lee, C. S. and Ip, W. H.
Extreme ultraviolet photolysis of CO₂-H₂O mixed ices at 10 K: **Journal of Geophysical Research, E, Planets**, 108(4), 8 p., illus. incl. 3 tables, 31 ref., April 25, 2003.

58000565

Clifford, Stephen M. (Lunar and Planetary Institute, Houston, TX); George, Jeffrey A. and Stoker, Carol R., prefacers.
Geophysical detection of surface water on Mars: **Journal of Geophysical Research, E, Planets**, 108(4), unpaginated p., illus., April 25, 2003. Individual papers are cited separately.

58000566

Mangold, N. (CNRS, Orsay, France).

Geomorphic analysis of lobate debris aprons on Mars at Mars Orbiter Camera scale; evidence for ice sublimation initiated by fractures: *in* Geophysical detection of surface water on Mars (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 13 p., illus., 41 ref., April 25, 2003.

58000567

Shechuk, Oleg B. (Radiophysical Research Institute, Nizhniy Novgorod, Russian Federation); Kartashov, Daniil V.; Picardi, Giovanni and Orosoi, Roberto.

Martian underground water detection; thermal model and simulations of radar signal propagation: *in* Geophysical detection of surface water on Mars (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 7 p., illus. incl. 2 tables, 22 ref., April 25, 2003.

58000568

Burt, D. M. (Lunar and Planetary Institute, Houston, TX) and Knauth, L. P.

Electrically conducting, Ca-rich brines, rather than water, expected in the Martian subsurface: *in* Geophysical detection of surface water on Mars (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 6 p., illus., 41 ref., April 25, 2003.

58000569

Pettinelli, Elena (Roma Tre University, E. Amaldi Physics Department, Rome, Italy); Vannaroni, Giuliano; Cereti, Annamaria; Paolucci, Francesca; Della Monica, Giuseppe; Storini, Marisa and Bella, Francesco.

Frequency and time domain permittivity measurements on solid CO₂ and solid CO₂; soil mixtures as Martian soil simulants: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 11 p., illus. incl. 5 tables, 38 ref., April 25, 2003.

58000570

Heggy, E. (Observatoire Astronomique de Bordeaux, Floirac, France); Paillou, P.; Costard, F.; Mangold, N.; Ruffie, G.; Demontoux, F.; Grandjean, G. and Malézieux, J. M.

Local geoelectrical models of the Martian subsurface for shallow groundwater detection using sounding radars: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 10 p., illus. incl. 4 tables, 34 ref., April 25, 2003.

58000571

Treiman, Allan H. (Lunar and Planetary Institute, Houston, TX).

Geologic settings of Martian gullies; implications for their origins: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 13 p., illus., 44 ref., April 25, 2003.

58000572

Whalley, W. Brian (Queen's University of Belfast, School of Geography, Belfast, United Kingdom) and Azizi, Fethi.

Rock glaciers and protalus landforms; analogous forms and ice sources on Earth and Mars: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 17 p., illus., 62 ref., April 25, 2003.

58000573

Daniels, Julian (Ben-Gurion Universit of the Negev, Department of Geography and Environmental Development, Be'er Sheva, Israel); Blumberg, Dan G.; Vulfson, Leonid D.; Kotlyar, Alex L.; Freiliker, Valentin; Ronen, Gefen and Ben-Asher, Jiftach.

Microwave remote sensing of physically buried objects in the Negev Desert; implications for subsurface Martian exploration: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 13 p., illus. incl. 2 tables, 26 ref., April 25, 2003.

58000574

Leuschen, Carl (Johns Hopkins University, Applied Physics Laboratory, Laurel, MD); Kanagaratnam, Pannir; Yoshikawa, Kenji; Arcone, Steve and Gogineni, Prasad.

Design and field experiments of a ground-penetrating radar for Mars exploration: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 12 p., illus. incl. 6 tables, 13 ref., April 25, 2003. CRREL Report No: ERDC/CRREL MP-03-6094

58000575

Leuschen, Carl (Johns Hopkins University, Applied Physics Laboratory, Laurel, MD); Clifford, Stephen M. and Gogineni, Prasad.

Simulation of a surface-penetrating radar for Mars exploration: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 14 p., illus. incl. 12 tables, 28 ref., April 25, 2003.

58000576

Degenhardt, John J., Jr. (Texas A&M University, High Alpine Research Program, College Station, TX) and Giardino, John R.

Subsurface investigation of a rock glacier using ground-penetrating radar; implications for locating stored water on Mars: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 17 p., illus., 98 ref., April 25, 2003.

58000577

Istratov, Vyacheslav A. (Radionda, Moscow, Russian Federation) and Frolov, Anatoly D.

Radio wave borehole measurements to determine the *in situ* electric property distribution in a massif: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 6 p., illus., 3 ref., April 25, 2003.

58000578

Frolov, Anatoly D. (Russian Academy of Sciences, Scientific Council on Earth Cryology, Moscow, Russian Federation).

A review of the nature and geophysical studies of the thick permafrost in Siberia; relevance to exploration on Mars: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 7 p., illus., 13 ref., April 25, 2003.

58000579

Travis, Bryan J. (Los Alamos National Laboratory, Earth and Environmental Sciences Division, Los Alamos, NM); Rosenberg, Nina D. and Cuzzi, Jeffrey N.

On the role of widespread subsurface convection in bringing liquid water close to Mars' surface: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 15 p., illus. incl. 1 table, 42 ref., April 25, 2003.

58000580

Miller, R. D. (Cornell University, Department of Soil Physics, Ithaca, NY) and Black, P. B.

Redistribution of water in terrestrial soils at subfreezing temperatures; a review of processes and their potential relevance to Mars: *in Geophysical detection of surface water on Mars* (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 11 p., illus., 38 ref., April 25, 2003.

58000581

Pellenbang, Robert E. (MDS Research, Washington, DC); Max, Michael D. and Clifford, Stephen M.

Methane and carbon dioxide hydrates on Mars; potential origins, distribution, detection, and implications for future in situ resource utilization: *in* Geophysical detection of surface water on Mars (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 5 p., 15 ref., April 25, 2003. Includes appendix.

58000582

Sletten, R. S. (University of Washington, Quaternary Research Center, Seattle, WA); Hallet, B. and Fletcher, R. C.

Resurfacing time of terrestrial surfaces by the formation and maturation of polygonal patterned ground: *in* Geophysical detection of surface water on Mars (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 10 p., illus., 47 ref., April 25, 2003.

58000583

Hamelin, Michel (Centre d'Etudes des Environnements Terrestre et Planétaires, France); Trautner, Roland and Grard, Réjean.

Detection of near-surface ice on Mars with electromagnetic techniques on board future surface vehicles: *in* Geophysical detection of surface water on Mars (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 11 p., illus., 41 ref., April 25, 2003.

58000584

Ogawa, Yoshiko (University of Tokyo, Earthquake Research Institute, Tokyo, Japan); Yamagishi, Yasuko and Kurita, Kei.

Evaluation of melting process of the permafrost on Mars; its implication for surface features: *in* Geophysical detection of surface water on Mars (Clifford, Stephen M., prefacer; *et al.*), **Journal of Geophysical Research, E, Planets**, 108(4), 12 p., illus., 24 ref., April 25, 2003.

58000585

Kayhko, Jukka (University of Turku, Department of Geography, Turku, Finland); Alho, Petteri; Hendriks, Johan P. M. and Rossi, Matti J.

Geomorphology of the Odadahraun semi-desert, NE Iceland; a Landsat TM-based land cover mapping: **Jökull**, 51, p. 1-16 (Icelandic sum.), illus. incl. sketch map, 42 ref., 2002.

58000586

Dabski, Maciej (University of Warsaw, Laboratory of Sedimentology, Warsaw, Poland).

Dating of the Flaajokull moraine ridges SE-Iceland; comparison of the glaciological, cartographic and lichenometrical data: **Jökull**, 51, p. 17-24 (Icelandic sum.), illus. incl. geol. sketch maps, 21 ref., 2002.

58000587

Thorsteinsson, Thorsteinn (University of Iceland, Science Institute, Reykjavik, Iceland); Sigurdsson, Oddur; Johannesson, Tomas; Larsen, Gudrun; Drücker, Cord and Wilhelms, Frank.

Ice core drilling on the Hofsjokull ice cap: **Jökull**, 51, p. 25-42 (Icelandic sum.), illus. incl. 3 tables, 17 ref., 2002.

58000588

Gudmundsson, Magnus T. (University of Iceland, Science Institute, Reykjavik, Iceland); Bonnel, Aurélie and Gunnarsson, Karl.

Seismic soundings of sediment thickness on Skeidararsandur, SE-Iceland: **Jökull**, 51, p. 53-64 (Icelandic sum.), illus. incl. sketch maps, 27 ref., 2002.

58000589

Lewis, E. Lyn (3904 Bedford Road, Victoria, BC, Canada).

Iceland 1956; from South to North over the Vatnajokull ice cap: **Jökull**, 51, p. 65-74 (Icelandic sum.), illus. incl. sketch map, 2002.

58000590

Bjornsson, Helgi (University of Iceland, Science Institute, Reykjavik, Iceland); Palsson, Finnur and Haraldsson, Hannes H.

Mass balance of Vatnajokull (1991-2001) and Langjokull (1996-2001), Iceland: **Jökull**, 51, p. 75-78 (Icelandic sum.), illus. incl. 1 table, sketch map, 1 ref., 2002.

58000591

Sigurdsson, Oddur (Orkustofnun, Reykjavik, Iceland).

Joklabreytingar 1930-1960, 1960-1990 og 1999-2000 [Glacier variations 1930-1960, 1960-1990 and 1999-2000]: **Jökull**, 51, p. 79-86 (English sum.), illus. incl. 1 table, 4 ref., 2002. Includes appendix.

58000592

Kienast, Markus.

Sedimentary biogeochemistry and palaeoceanography of the South China Sea during the late Pleistocene: 155 p., Doctoral, 2002, University of British Columbia, Vancouver, BC, Canada. ISBN: 0-612-75032-9 Available from: Univ. Microfilms.

58000593

Koutavas, Athanasios.

Sea surface temperature variability in the eastern Equatorial Pacific during the last deglaciation; multiproxy geochemical reconstruction: 141 p., Doctoral, 2003, Columbia University, New York, NY. ISBN: 0-493-94295-5 Available from: Univ. Microfilms.

58000594

Brocklehurst, Simon H.

Evolution of topography in glaciated mountain ranges: Doctoral, 2002, Massachusetts Institute of Technology, Cambridge, MA. Available from: Mass. Inst. Technol. Libr., Cambridge, MA, United States.

58000595

Cannariato, Kevin George.

Millennial-scale variability during glacial, interglacial, and transitional climate states; its causes and implications for biotic evolution and future climate change: 196 p., Doctoral, 2002, University of California, Santa Barbara, Santa Barbara, CA. ISBN: 0-493-93555-X Available from: Univ. Microfilms.

58000596

Hetherington, Renée.

Interdisciplinary insights into paleoenvironments of the Queen Charlotte Islands/Hecate Strait region: 181 p., Doctoral, 2002, University of Victoria, Victoria, BC, Canada. ISBN: 0-612-74978-9
Available from: Univ. Microfilms.

58000597

Golivets, S. V. (Russian Academy of Sciences, Shirshov Institute of Oceanology, Moscow, Russian Federation) and Koshlyakov, M. N.

Cyclonic eddies at the subantarctic front and formation of the Antarctic Intermediate Water: **Oceanology**, 43(3), p. 305-317, illus. incl. sketch map, 19 ref., June 2003. Includes appendix.

58000598

Trukhin, A. M. (Russian Academy of Sciences, Far Eastern Branch, Vladivostok, Russian Federation).

Oceanographic and biological conditions affecting the winter distribution of the spotted seal (*Phoca largha*) in the Sea of Okhotsk: **Oceanology**, 43(3), p. 387-394, illus. incl. sketch maps, 42 ref., June 2003.

58000599

Zernova, V. V. (Russian Academy of Sciences, Shirshov Institute of Oceanology, Moscow, Russian Federation); Shevchenko, V. P. and Politova, N. V.

Features of the phytocoene structure of the Barents Sea over a meridional section at 37°-40°E (September 1997): **Oceanology**, 43(3), p. 395-403, illus. incl. sketch map, 29 ref., June 2003.

58000600

LaPerriere, Jacqueline D. (U. S. Geological Survey, Alaska Cooperative Fish and Wildlife Research Unit, Fairbanks, AK).

Limnology of Harding Lake, Alaska; a deep, subarctic lake: **Lake and Reservoir Management**, 19(2), p. 93-107, illus. incl. 6 tables, sketch map, 49 ref., June 2003.

58000601

LaPerriere, Jacqueline D. (U. S. Geological Survey, Alaska Cooperative Fish and Wildlife Research Unit, University of Alaska at Fairbanks, Fairbanks, AK); Jones, John R. and Swanson, David K.

Limnology of lakes in Gates of the Arctic National Park and Preserve, Alaska: **Lake and Reservoir Management**, 19(2), p. 108-121, illus. incl. 4 tables, sketch map, 51 ref., June 2003.

58000602

LaPerriere, Jacqueline D. (U. S. Geological Survey, Alaska Cooperative Fish and Wildlife Research Unit, University of Alaska Fairbanks, Fairbanks, AK); Simpson, Thomas D. and Jones, John R.

Comparative limnology of some lakes in interior Alaska: **Lake and Reservoir Management**, 19(2), p. 122-132, illus. incl. 1 table, sketch map, 39 ref., June 2003.

58000603

Heglund, Patricia J. (University of Missouri, Department of Fisheries and Wildlife Sciences, Columbia, MO) and Jones, John R.

Limnology of shallow lakes in the Yukon Flats National Wildlife Refuge, Interior Alaska: **Lake and Reservoir Management**, 19(2), p. 133-140, illus. incl. 2 tables, sketch map, 42 ref., June 2003.

58000604

Jones, John R. (University of Missouri, Department of Fisheries and Wildlife Sciences, Columbia, MO); Bell, Michael A.; Baker, John A. and Koenings, Jeffrey P.

General limnology of lakes near Cook Inlet, southcentral Alaska: **Lake and Reservoir Management**, 19(2), p. 141-149, illus. incl. 2 tables, sketch map, 37 ref., June 2003.

58000605

Spooner, Jeffrey David.

The evolution of the lower Missouri River; stratigraphy, geomorphology, and habitat dynamics at Lisbon Bottom: 151 p., Doctoral, 2002, University of Missouri, Rolla, Rolla, MO. ISBN: 0-493-94993-3 Available from: Univ. Microfilms.

58000606

Jokat, Wilfried and Krause, Gunther, editors.

Die expedition ANTARKTIS XIX mit FS "Polarstern" 2001/2002 Bericht von den Fahrtabschnitten 1 und 2—The expedition ANTARKTIS XIX of RV "Polarstern" in 2001/2002; reports of legs 1 and 2: **Berichte zur Polar- und Meeresforschung = Reports on Polar and Marine Research**, 448, 69 p., (German, English), illus. incl. tables, sketch map, 2003. Includes appendices.

58000607

Drüe, Clemens (Universität Bonn, Meteorologisches Institut, Bonn, Federal Republic of Germany) and Heinemann, Günther.

Investigation of the Greenland atmospheric boundary layer over Summit 2002 (IGLOS); field phase report: **Berichte zur Polar- und Meeresforschung = Reports on Polar and Marine Research**, 447, 81 p., illus. incl. 13 tables, sketch maps, 33 ref., 2003.

58000608

Venegas, Silva A. (University of Copenhagen, Niels Bohr Institute for Astronomy, Copenhagen, Denmark).

The Antarctic circumpolar wave; a combination of two signals?: **Journal of Climate**, 16(15), p. 2509-2525, illus. incl. sketch maps, 46 ref., August 1, 2003.

58000609

Hecht, Jeff.

Black Sea bore the brunt of two gushing neighbours: **New Scientist (1971)**, 179(2405), p. 17, illus., July 26, 2003.

58000610

Jones, Nicola.

Radon leaks could reveal water on Mars: **New Scientist (1971)**, 179(2405), p. 18, illus., July 26, 2003.

58000611

Kim, Taehong.

Geostatistical characterization of hydrogeologic heterogeneity in a glacial-lacustrine aquifer system; Lake Michigan rim, northwestern Indiana, U.S.A.: 120 p., illus. incl. 2 tables, 48 ref., Master's, December 2001, Indiana University, Bloomington, Bloomington, IN.

58000612

Watson, Emily.

Lake Vostok is like a giant can of soda: **New Scientist (1971)**, 179(2409), p. 21, illus., August 23, 2003.

58000613

Chandler, David L.

All eyes on Mars: **New Scientist (1971)**, 179(2409), p. 40-41, August 23, 2003.

58000614

Levrard, B. (IMCCE, Astronomie et Systèmes Dynamique, Paris, France) and Laskar, J.

Climate friction and the Earth's obliquity: **Geophysical Journal International**, 154(3), p. 970-990, illus. incl. 5 tables, 92 ref., September 2003.

58000615

Mangan, Margaret T. (U. S. Geological Survey, Menlo Park, CA); Waythomas, Christopher F.; Miller, Thomas P. and Trusdell, Frank A.

Emmons Lake volcanic center, Alaska Peninsula; source of the late Wisconsin Dawson Tephra, Yukon Territory, Canada: **Canadian Journal of Earth Sciences = Revue Canadienne des Sciences de la Terre**, 40(7), p. 925-936 (French sum.), illus. incl. 5 tables, sketch maps, 37 ref., July 2003.

58000616

Correa-Lafayette, Heriberto.

Seismic evaluation of the late Quaternary stratigraphy on the Alabama-West Florida outer continental shelf and upper slope: 73 p., illus., Master's, August 2001, Louisiana State University, Baton Rouge, LA.

58000617

Morard, Alain (Université de Lausanne, Institut de Géologie et Paléontologie, Lausanne, Switzerland); Guex, Jean; Bartolini, Annachiara; Morettini, Elena and de Wever, Patrick.

A new scenario for the Domerian-Toarcian transition: **Bulletin de la Société Géologique de France**, 174(4), p. 352-356 (French sum.), illus. incl. sect., 40 ref., 2003.

58000618

Gensous, Bernard (Université de Perpignan, BDSI, Perpignan, France) and Tesson, Michel.

L'analyse des dépôts postglaciaires et son application à l'étude des séquences de dépôt du Quaternaire terminal sur la plate-forme au large du Rhône (golfe du Lion) [Analysis of postglacial deposits on the Rhone Shelf, Gulf of Lion; application to the study of late Quaternary depositional sequences]: **Bulletin de la Société Géologique de France**, 174(4), p. 401-419 (English sum.), illus. incl. sects., geol. sketch maps, 69 ref., 2003.

58000619

Stocker, Thomas F. (University of Bern, Climate and Environmental Physics Institute, Bern, Switzerland).

South dials north: **Nature (London)**, 424(6948), p. 496-497, 499, illus., 15 ref., July 31, 2003.

58000620

Knorr, Gregor (Universität Hamburg, Institut für Meteorologie, Hamburg, Federal Republic of Germany) and Lohmann, Gerrit.

Southern Ocean origin for the resumption of Atlantic thermohaline circulation during deglaciation: **Nature (London)**, 424(6948), p. 532-536, illus. incl. sketch maps, 30 ref., July 31, 2003.

58000621

Ingolfsson, Olafur (University Centre on Svalbard, Longyearbyen, Svalbard and Jan Mayen Islands) and Lokrantz, Hanna.

Massive ground ice body of glacial origin at Yugorski Peninsula, Arctic Russia: **Permafrost and Periglacial Processes**, 14(3), p. 199-215, illus. incl. sects., sketch maps, 92 ref., September 2003.

58000622

Murton, J. B. (University of Sussex, Department of Geography, Brighton, United Kingdom); Bateman, M. D.; Baker, C. A.; Knox, R. and Whiteman, C. A.

The Devensian periglacial record on Thanet, Kent, UK: **Permafrost and Periglacial Processes**, 14(3), p. 217-246, illus. incl. 7 tables, sects., geol. sketch map, 95 ref., September 2003.

58000623

Kutasov, I. M. (Pajarito Enterprises, Los Alamos, NM) and Eppelbaum, L. V.

Prediction of formation temperatures in permafrost regions from temperature logs in deep wells; field cases: **Permafrost and Periglacial Processes**, 14(3), p. 247-258, illus. incl. 10 tables, 24 ref., September 2003.

58000624

French, Hugh M. (University of Ottawa, Departments of Geography and Earth Sciences, Ottawa, ON, Canada); Demitroff, Mark and Forman, Steve L.

Evidence for late-Pleistocene permafrost in the New Jersey Pine Barrens (latitude 39°N), Eastern USA: **Permafrost and Periglacial Processes**, 14(3), p. 259-274, illus. incl. 2 tables, sketch map, 68 ref., September 2003.

58000625

Kokelj, S. V. (Carleton University, Department of Geography and Environmental Studies, Ottawa, ON, Canada) and Burn, C. R.

Ground ice and soluble cations in near-surface permafrost, Inuvik, Northwest Territories, Canada: **Permafrost and Periglacial Processes**, 14(3), p. 275-289, illus. incl. 5 tables, sketch map, 36 ref., September 2003.

58000626

Berthling, Ivar (University of Oslo, Department of Physical Geography, Oslo, Norway); Etzelmüller, Bernd; Eiken, Trond and Sollid, Johan Ludvig.

The rock glaciers on Prins Karls Forland; corrections of surface displacement rates: **Permafrost and Periglacial Processes**, 14(3), p. 291-293, illus. incl. 1 table, 6 ref., September 2003.

58000627

Lee, J. R. (University of London, Royal Holloway, Department of Geography, Egham, United Kingdom); Brown, E. J.; Rose, J.; Moorlock, B. S. P. and Hamblin, R. J. O.

Implications of a middle Pleistocene ice-wedge cast at Trimingham, Norfolk, eastern England;

discussion: **Permafrost and Periglacial Processes**, 14(3), p. 295-295, 3 ref., September 2003.

For reference to original see Whiteman, C. A., *Permafrost and Periglacial Processes*, Vol. 13, pp. 163-170, 2002.

58000628

Pozzi, R.; Bollettinari, G. and Clerici, A.

Studio geomorfologico e geologico applicato dell'Alta Valtellina; alto bacino dell'Adda con chiusura a Tirano [Geomorphology and geology of upper Valtellina; the upper Adda Basin near Tirano]: Azienda Energet. Municipale, Milan, Italy, 151 p., 1990.

58000629

Aurada, Klaus D.

Earth surface systems as complementary (evolving and responding) geosystems; example; Baltic Sea area: *in Fortschritte in der Geoinformatik* (Thiergärtner, Hannes, editor; *et al.*),

Mathematische Geologie, 4, p. 87-102 (German sum.), 6 tables, geol. sketch maps, 1999.

58000630

Leifsdottir, Olof E. (Science Institute, Reykjavik, Iceland) and Simonarson, Leifur A.

Snigilsvampur og onnur saedyr i Raudamel [Late-glacial marine fauna in Raudamelur]:

Naturufraedingurinn, 69(3-4), p. 145-153 (English sum.), illus. incl. geol. sketch map, 22 ref., 2000.

58000631

Magnusdottir, Brynhildur (Haskola Islands v/Sudurgotu, Reykjavik, Iceland) and Norddahl, Hreggvidur.

Aldur hvalbeins og efstu fjorumarka i akrafjalli [Re-examination of the deglaciation history around Akrafjall]: **Naturufraedingurinn**, 69(3-4), p. 177-188 (English sum.), illus. incl. geol. sketch map, 14 ref., 2000.

58000632

Petersen, Aevar (Icelandic Institute of Natural History, Reykjavik, Iceland).

Voktun sjofuglastofna [Monitoring of Icelandic seabirds]: **Naturufraedingurinn**, 69(3-4), p. 189-200 (English sum.), illus. incl. 1 table, 42 ref., 2000.

58000633

Chapman, Mary G. (U. S. Geological Survey, Flagstaff, AZ); Allen, Carlton C.; Gudmundsson, Magnus T.; Gulick, Virginia C.; Jakobsson, Sveinn P.; Lucchitta, Baerbel K.; Skilling, Ian P. and Waitt, Richard B.

Volcanism and ice interactions on Earth and Mars: *in Environmental effects on volcanic eruptions; from deep oceans to deep space* (Zimbelman, James R., editor; *et al.*), Kluwer Academic/Plenum Publishers, New York, NY, p. 39-73, illus. incl. 1 table, 151 ref., 2000.

58000634

Pinkerton, Harry (Lancaster University, Institute of Environmental Natural Sciences, Lancaster, United Kingdom); Fagents, Sarah A.; Prockter, Louise; Schenk, Paul and Williams, David A.

Exotic lava flows: *in* Environmental effects on volcanic eruptions; from deep oceans to deep space (Zimbelman, James R., editor; *et al.*), Kluwer Academic/Plenum Publishers, New York, NY, p. 207-241, illus. incl. 2 tables, 142 ref., 2000.

58000635

Hittel, Alex (Shell Canada Resources, Calgary, AB, Canada).

Monitoring of Arctic ice movements utilizing satellite doppler methods: *in* Proceedings of the second international Geodetic symposium on Satellite doppler positioning, **Proceedings of the ... International Geodetic Symposium on Satellite Doppler Positioning**, 2, p. 297-315, illus., 2 ref., 1979. *Meeting:* Jan. 22-26, 1979, Austin, TX.

58000636

Young, Neal W. (Department of Science, Antarctic Division, Melbourne, Victoria, Australia).

Application of doppler satellite observations to the study of ice-flow in East Antarctica; problems peculiar to doppler surveys in high latitudes: *in* Proceedings of the second international Geodetic symposium on Satellite doppler positioning, **Proceedings of the ... International Geodetic Symposium on Satellite Doppler Positioning**, 2, p. 373-391, illus. incl. 6 tables, 11 ref., 1979. *Meeting:* Jan. 22-26, 1979, Austin, TX.

58000637

Wisher, Aaron Paul.

Factors contributing to landslide activity in the winter of 1995-96, Clearwater County near Orofino, Idaho: 127 p., illus. incl. 8 tables; geologic hazards map, 1:30,052, 38 ref., Master's, July 1998, Central Washington University, Ellensburg, WA.

58000643

Carroll, Amy Breen (University of Alaska at Fairbanks, Institute of Arctic Biology, Fairbanks, AK); Parker, Carolyn and Craig, Tim.

Toolik Lake Research Natural Area/ACEC rare plant inventory, 2002: **BLM-Alaska Open File Report**, Rep. No. 90, 15 p., illus. incl. 4 tables, sketch maps, 7 ref., July 2003.

58000644

Grip, Niklas (Lulea University of Technology, Department of Mathematics, Lulea, Sweden).

Dimensional analysis and numerical solution of the rigid ice model of frost heave with hints on how to implement the solution in Matlab: **Examensarbete - Lulea Tekniska Universitet.**

Civilingenjorsprogrammet = Master's Thesis, 1997:147, 53 p. (Swedish sum.), illus. incl. 3 tables, 14 ref., Master's, 1997, Lulea Tekniska Universitet, Lulea.

58000650

Kawaguchi, Kouichi (University of Tokyo, Tokyo, Japan); Koike, Isao and Nakayama, Eiichirou, editors.

PSECS; Pacific subarctic scosystem study: **Journal of Oceanography**, 57(3), p. 251-384, illus., June 2001. Individual papers within scope are cited separately.

58000651

Koike, Isao (University of Tokyo, Ocean Research Institute, Tokyo, Japan); Ogawa, Hiroshi; Nagata, Toshi; Fukuda, Rumi and Fukuda, Hideki.

Silicate to nitrate ratio of the upper sub-Arctic Pacific and the Bering Sea basin in summer; its implication for phytoplankton dynamics: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 253-260, illus. incl. 2 tables, sketch map, 28 ref., June 2001.

58000652

Fujishima, Yukiyo (Kanazawa University, Faculty of Technology, Ishikawa, Japan); Ueda, Kazumasa; Maruo, Masahiro; Nakayama, Eiichirou; Tokutome, Chikako; Hasegawa, Hiroshi; Matsui, Masakazu and Sohrin, Yoshiki.

Distribution of trace bioelements in the subarctic North Pacific Ocean and the Bering Sea (the R/V Hakuho Maru Cruise KH-97-2): *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 261-273, illus. incl. 2 tables, sketch map, 34 ref., June 2001.

58000653

Sasaki, Hiroaki (Hokkaido University, Graduate School of Fisheries Sciences, Hokkaido, Japan); Saitoh, Sei-ichi and Kishino, Motoaki.

Bio-optical properties of seawater in the western subarctic gyre and Alaskan gyre in the subarctic North Pacific and the southern Bering Sea during the summer of 1997: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 275-284, illus. incl. 1 table, sketch map, 34 ref., June 2001.

58000654

Minagawa, Masao (Hokkaido University, Graduate School of Environmental Earth Science, Sapporo, Japan); Ohashi, Mami; Kuramoto, Toshikatsu and Noda, Norihiro.

$\delta^{15}\text{N}$ of PON and nitrate as a clue to the origin and transformation of nitrogen in the subarctic North Pacific and its marginal sea: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 285-300, illus. incl. 2 tables, sketch map, 37 ref., June 2001.

58000655

Nagata, Toshi (University of Tokyo, Ocean Research Institute, Tokyo, Japan); Fukuda, Rumi; Fukuda, Hideki and Koike, Isao.

Basin-scale geographic patterns of bacterioplankton biomass and production in the subarctic Pacific, July-September 1997: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 301-313, illus. incl. 6 tables, 45 ref., June 2001.

58000656

Aranami, Kazushi (Hokkaido University, Laboratory of Marine and Atmospheric Geochemistry, Sapporo, Japan); Watanabe, Shuichi; Tsunogai, Shizuo; Hayashi, Masato; Furuya, Ken and Nagata, Toshi.

Biogeochemical variation in dimethylsulfide, phytoplankton pigments and heterotrophic bacterial production in the subarctic North Pacific during summer: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 315-322, illus. incl. 1 table, sketch map, 32 ref., June 2001.

58000657

Hayashi, Masato (University of Tokyo, Department of Aquatic Bioscience, Tokyo, Japan); Furuya, Ken and Hattori, Hiroshi.

Spatial heterogeneity in distributions of chlorophyll α derivatives in the subarctic North Pacific during summer: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 323-331, illus. incl. 2 tables, sketch map, 46 ref., June 2001.

58000658

Nishikawa, Jun (University of Tokyo, Ocean Research Institute, Tokyo, Japan); Nishida, Shuhei; Moku, Masatoshi; Hidaka, Kiyotaka and Kawaguchi, Kouichi.

Biomass, abundance, and vertical distribution of micronekton and large gelatinous zooplankton in the subarctic Pacific and the Bering Sea during the summer of 1997: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 361-375, illus. incl. 4 tables, 65 ref., June 2001. Includes appendices.

58000659

Gooday, Andrew J. (Southampton Oceanography Centre, Southampton, United Kingdom); Kitazato, Hiroshi; Hori, Saori and Toyofuku, Takashi.

Monothalamous soft-shelled foraminifera at an abyssal site in the North Pacific; a preliminary report: *in PSECS; Pacific subarctic ecosystem study* (Kawaguchi, Kouichi, editor; *et al.*), **Journal of Oceanography**, 57(3), p. 377-384, illus. incl. 2 tables, 40 ref., June 2001.

58000660

Butt, Faisal A. (University of Oslo, Department of Geology, Oslo, Norway); Elverhoi, Anders; Forsberg, Carl Fredrik and Solheim, Anders.

Evolution of the Scoresby Sund Fan, central East Greenland; evidence from ODP Site 987: **Norsk Geologisk Tidsskrift**, 81(1), p. 3-15, illus. incl. sect., sketch map, 39 ref., 2001.

58000661

Aa, Asbjorn Rune (Sogn og Fjordane College, Faculty of Science, Sogndal, Norway) and Sonstegaard, Eivind.

Middle Weichselian interstadial sediments in Sogndalsdalen, western Norway: **Norsk Geologisk Tidsskrift**, 81(1), p. 17-23, illus. incl. 1 table, sketch map, 38 ref., 2001.

58000662

Sandvold, Sigurd (University of Bergen, Department of Geology, Bergen, Norway); Lie, Oyvind; Nesje, Atle and Dahl, Svein Olaf.

Holocene glacial and colluvial activity in Leirungsdalen, eastern Jotunheimen, south-central Norway: **Norsk Geologisk Tidsskrift**, 81(1), p. 25-40, illus. incl. 2 tables, sketch map, 30 ref., 2001.

58000663

Murton, Julian (University of Sussex, Centre for Environmental Research, Sussex, United Kingdom).

Pre- and post-conference CANQUA fieldtrips, Yukon Territory, Canada: **Quaternary Newsletter**, 95, p. 12-18, illus., 2 ref., October 2001.

58000664

Carr, Simon J. (Oxford Brookes University, Department of Geography, Oxford, United Kingdom) and Meehan, Robert T.

Glaciotectonised sediments at Mullaghmore, County Meath, Ireland; evidence of a large scale re-advance during ice-sheet deglaciation?: **Quaternary Newsletter**, 95, p. 23-26, geol. sketch map, 5 ref., October 2001.

58000665

Grey, K. (Geological Survey of Western Australia, East Perth, West. Aust., Australia).

Surviving the snowball Earth; the acritarch record [abstr.]: *in* From basins to mountains; Rodinia at the turn of the century; Chris Powell memorial symposium (Sircombe, K. N., editor; *et al.*), **Abstracts - Geological Society of Australia**, 65, p. 45-47, 18 ref., 2001. *Meeting*: Sept. 30-Oct. 2, 2001, Perth, West. Aust., Australia. IGCP Project No. 440.

58000666

Schmidt, P. W. (Commonwealth Scientific and Industrial Research Organisation, Division of Exploration and Mining, North Ryde, N.S.W., Australia).

Palaeomagnetic evidence for low-latitude glaciation; the geocentric axial dipole hypothesis for the Proterozoic? [abstr.]: *in* From basins to mountains; Rodinia at the turn of the century; Chris Powell memorial symposium (Sircombe, K. N., editor; *et al.*), **Abstracts - Geological Society of Australia**, 65, p. 95-98, illus., 24 ref., 2001. *Meeting*: Sept. 30-Oct. 2, 2001, Perth, West. Aust., Australia. IGCP Project No. 440.

58000667

Williams, G. E. (Adelaide University, Department of Geology and Geophysics, Adelaide, South Aust., Australia).

The paradox of Proterozoic glaciation at sea level and strong seasonality near the palaeoequator; evidence and implications [abstr.]: *in* From basins to mountains; Rodinia at the turn of the century; Chris Powell memorial symposium (Sircombe, K. N., editor; *et al.*), **Abstracts - Geological Society of Australia**, 65, p. 108-112, illus., 49 ref., 2001. *Meeting*: Sept. 30-Oct. 2, 2001, Perth, West. Aust., Australia. IGCP Project No. 440.

58000668

Hoffman, Paul (Harvard University, Cambridge, MA).

Snowball Earth; testing the limits of global change: **Reservoir**, 28(10), p. 12, November 2001.

58000669

Renouf, J. T. (Le Côté des Pelles, Route du Petit Port, Jersey, United Kingdom) and James, H. C. L.

The raised beach at Toul Ar Roussin, Port L'Épine, Trélévern (Côtes D'Armor, Brittany); its significance for last cold stage events: *in* Proceedings of the 39th Ussher Society conference (Pirrie, Duncan, editor), **Geoscience in South-West England. Proceedings of the Ussher Society**, 10, Part 2, p. 160-165, illus. incl. sect., sketch map, 17 ref., 2001. *Meeting*: Jan. 3-6, 2001, Sidmouth, United Kingdom.

58000670

Hughes, Philip D. (University of Cambridge, Department of Geography, Cambridge, United Kingdom).

Loch Lomond stadial glaciers in the Aran and Arenig mountains, North Wales, Great Britain: **Geological Journal**, 37(1), p. 9-15, illus. incl. 1 table, geol. sketch maps, 24 ref., March 2002.

58000671

Imae, Naoya (National Institute of Polar Research, Antarctic Meteorite Research Center, Tokyo, Japan); Iwata, Naoyoshi and Shimoda, Yasuyoshi.

Search for Antarctic meteorites in the bare ice field around the Yamato Mountains by JARE-41: **Antarctic Meteorite Research**, 15, p. 1-24, illus. incl. 4 tables, sketch maps, 22 ref., March 2002. Includes appendix.

58000672

Iwata, Naoyoshi (Yamagata University, Department of Earth and Environmental Sciences, Yamagata, Japan) and Imae, Naoya.

Antarctic micrometeorite collection at a bare ice region near Syowa Station by JARE-41 in 2000: **Antarctic Meteorite Research**, 15, p. 25-37, illus. incl. 2 tables, sketch map, 17 ref., March 2002.

58000673

Vandenberghe, J. (Vrije Universiteit, ICG, Amsterdam, Netherlands).

The relation between climate and river processes, landforms and deposits during the Quaternary: *in Late Pleistocene and Holocene investigations in Europe* international conference on Past global changes (PAGES) (Chlachula, Jiri, editor; *et al.*), **Quaternary International**, 91, p. 17-23, illus. incl. strat. col., 52 ref., 2002. *Meeting*: Sept. 2000, Prague, Czech Republic.

58000674

Mackintosh, Andrew N. (Utrecht University, Institute for Marine and Atmospheric Research Utrecht, Utrecht, Netherlands); Dugmore, Andrew J. and Hubbard, Alun L.

Holocene climatic changes in Iceland; evidence from modelling glacier length fluctuations at Solheimajokull: *in Late Pleistocene and Holocene investigations in Europe* international conference on Past global changes (PAGES) (Chlachula, Jiri, editor; *et al.*), **Quaternary International**, 91, p. 39-52, illus. incl. 1 table, sketch map, 49 ref., 2002. *Meeting*: Sept. 2000, Prague, Czech Republic.

58000675

Velichko, A. A. (Russian Academy of Sciences, Laboratory of Evolutionary Geography, Moscow, Russian Federation); Catto, Norm; Drenova, A. N.; Klimanov, V. A.; Kremenetski, K. V. and Nechaev, V. P.

Climate changes in East Europe and Siberia at the late glacial-Holocene transition: *in Late Pleistocene and Holocene investigations in Europe* international conference on Past global changes (PAGES) (Chlachula, Jiri, editor; *et al.*), **Quaternary International**, 91, p. 75-99, illus. incl. 6 tables, sketch maps, 84 ref., 2002. *Meeting*: Sept. 2000, Prague, Czech Republic.

58000676

Kuhle, Matthias (University Göttingen, Institute of Geography, Gottingen, Federal Republic of Germany).

The glaciation of Tibet; pacemaker of the ice ages: *in Desert and alpine environments; advances in geomorphology and palaeoclimatology* (Yang Xiaoping, editor), China Ocean Press, Beijing, China, p. 80-99, illus. incl. sketch map, 84 ref., 2002.

58000677

Schulz, Georg (Freie Universität Berlin, Institut für Geographische, Berlin, Federal Republic of Germany).

Remote sensing data and their use in updating thematic maps of Pleistocene climate elements and glaciation boundaries: *in* Desert and alpine environments; advances in geomorphology and palaeoclimatology (Yang Xiaoping, editor), China Ocean Press, Beijing, China, p. 100-111, illus. incl. sketch map, 13 ref., 2002.

58000678

Bowles, Dianna J. (University of York, Department of Biology, York, United Kingdom); Lillford, Peter J.; Rees, David A. and Shanks, Ian A., editors.

Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting: **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 827-956, illus., July 29, 2002. *Meeting*: Sept. 26-27, 2001, United Kingdom. Individual papers are cited separately.

58000679

Smallwood, Maggie (University of York, Department of Biology, York, United Kingdom) and Bowles, Dianna J.

Plants in a cold climate: *in* Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 831-847, 216 ref., July 29, 2002. *Meeting*: Sept. 26-27, 2001, United Kingdom.

58000680

Bale, J. S. (University of Birmingham, School of Biosciences, Birmingham, United Kingdom).

Insects and low temperatures; from molecular biology to distributions and abundance: *in* Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 849-862, illus., 99 ref., July 29, 2002. *Meeting*: Sept. 26-27, 2001, United Kingdom.

58000681

Laybourn-Parry, Johanna (University of Nottingham, School of Life and Environmental Sciences, Nottingham, United Kingdom).

Survival mechanisms in Antarctic lakes: *in* Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 863-869, illus., 61 ref., July 29, 2002. *Meeting*: Sept. 26-27, 2001, United Kingdom.

58000682

Knight, Marc R. (University of Oxford, Department of Plant Sciences, Oxford, United Kingdom).

Signal transduction leading to low-temperature tolerance in *Arabidopsis thaliana*: *in* Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 871-875, illus., July 29, 2002. *Meeting*: Sept. 26-27, 2001, United Kingdom.

58000683

Viswanathan, C. (University of Arizona, Department of Plant Sciences, Tucson, AZ) and Zhu, Jian-Kang.

Molecular genetic analysis of cold-regulated gene transcription: *in Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting* (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 877-886, 87 ref., July 29, 2002. *Meeting:* Sept. 26-27, 2001, United Kingdom.

58000684

Eriksson, Sofia (Karolinska Institute, Microbiology and Tumor Biology Center, Stockholm, Sweden); Hurme, Reini and Rhen, Mikael.

Low-temperature sensors in bacteria: *in Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting* (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 887-893, illus., 53 ref., July 29, 2002. *Meeting:* Sept. 26-27, 2001, United Kingdom.

58000685

Weber, Michael H. W. (Philipps-Universität Marburg, Department of Chemistry, Marburg, Federal Republic of Germany) and Marahiel, Mohamed A.

Coping with the cold; the cold shock response in the Gram-positive soil bacterium *Bacillus subtilis*: *in Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting* (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 895-907, illus., 137 ref., July 29, 2002. *Meeting:* Sept. 26-27, 2001, United Kingdom.

58000686

Hincha, Dirk K. (Max-Planck-Institut für Molekulare Pflanzenphysiologie, Potsdam, Federal Republic of Germany).

Cryoprotectin; a plant lipid-transfer protein homologue that stabilizes membranes during freezing: *in Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting* (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 909-916, illus. incl. 1 table, 77 ref., July 29, 2002. *Meeting:* Sept. 26-27, 2001, United Kingdom.

58000687

D'Amico, Salvino (University of Liège, Institute of Chemistry, Liege, Belgium); Claverie, Paule; Collins, Tony; Georlette, Daphné; Gratia, Emmanuelle; Hoyoux, Anne; Meuwis, Marie-Alice; Feller, Georges and Gerday, Charles.

Molecular basis of cold adaptation: *in Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting* (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 917-925, illus. incl. 1 table, 51 ref., July 29, 2002. *Meeting:* Sept. 26-27, 2001, United Kingdom.

58000688

Davies, Peter L. (Queen's University, Department of Biochemistry, Kingston, ON, Canada); Baardsnes, Jason; Kuiper, Michael J. and Walker, Virginia K.

Structure and function of antifreeze proteins: *in Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting* (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 927-935, illus., 37 ref., July 29, 2002. *Meeting:* Sept. 26-27, 2001, United Kingdom.

58000689

Lundheim, Rolv (Queen Maud College, Allforsk Biology, Trondheim, Norway).

Physiological and ecological significance of biological ice nucleators: *in* Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 937-943, illus. incl. 1 table, 71 ref., July 29, 2002. *Meeting*: Sept. 26-27, 2001, United Kingdom.

58000690

Lillford, Peter J. (Colworth Laboratory, Unilever Research, Bedford, United Kingdom) and Holt, Chris B.

In vitro uses of biological cryoprotectants: *in* Coping with the cold; the molecular and structural biology of cold stress survivors; papers of a discussion meeting (Bowles, Dianna J., editor; *et al.*), **Philosophical Transactions - Royal Society of London. Biological Sciences**, 357(1423), p. 945-951, illus. incl. 1 table, 39 ref., July 29, 2002. *Meeting*: Sept. 26-27, 2001, United Kingdom.

58000691

Sikes, E. L. (Cooperative Research Centre for Antarctic and Southern Ocean Environment, Hobart, Tasmania, Australia); Howard, W. R.; Neil, H. L. and Volkman, J. K.

Glacial-interglacial sea surface temperature changes across the subtropical from east of New Zealand based on alkenone unsaturated ratios and foraminiferal assemblages: **Paleoceanography**, 17(2), p. 2.1-2.14, illus. incl. 2 tables, sketch map, 75 ref., June 2002. *Holocene*

58000692

Schulz, Michael (Universität Kiel, Institut für Geowissenschaften, Kiel, Federal Republic of Germany).

On the 1470-year pacing of Dansgaard-Oeschger warm events: **Paleoceanography**, 17(2), p. 4.1-4.10, illus., 39 ref., June 2002.

58000693

Schmittner, Andreas (University of Victoria, School of Earth and Ocean Sciences, Victoria, BC, Canada); Meissner, Katrin J.; Eby, M. and Weaver, Andreas J.

Forcing of the deep ocean circulation in simulations of the last glacial maximum: **Paleoceanography**, 17(2), p. 5.1-5.16, illus. incl. 2 tables, 44 ref., June 2002.

58000694

Dutton, Andrea L. (University of Michigan, Department of Geological Sciences, Ann Arbor, MI) and Zinsmeister, William J.

Stable isotope and minor element proxies for Eocene climate of Seymour Island, Antarctica: **Paleoceanography**, 17(2), p. 6.1-6.14, illus. incl. 4 tables, sketch map, 86 ref., June 2002.

58000695

Schmittner, Andreas (University of Victoria, School of Earth and Ocean Sciences, Victoria, BC, Canada) and Clement, Amy C.

Sensitivity of the thermohaline circulation to tropical and high latitude freshwater forcing during the last glacial-interglacial cycle: **Paleoceanography**, 17(2), p. 7.1-7.14, illus. incl. 1 table, 62 ref., June 2002.

58000696

Renssen, H. (Université Catholique de Louvain, Institut d'Astronomie et de Géophysique Georges Lemaître, Louvain-la-Neuve, Belgium); Goosse, H. and Fichefet, T.
Modeling the effect of freshwater pulses on the early Holocene climate; the influence of high-frequency climate variability: **Paleoceanography**, 17(2), p. 10.1-10.18, illus. incl. sketch maps, 85 ref., June 2002.

58000697

Molnar, Peter (University of Colorado at Boulder, Department of Geological Sciences, Boulder, CO) and Cane, Mark A.

El Nino's tropical climate and teleconnections as a blueprint for pre-Ice Age climates: **Paleoceanography**, 17(2), p. 11.1-11.12, illus. incl. sketch maps, 16 ref., June 2002.

58000698

Darby, Dennis A. (Old Dominion University, Department of Ocean, Earth, and Atmospheric Sciences, Norfolk, VA); Bischof, Jens F.; Spielhagen, Robert F.; Marshall, Steven A. and Herman, Stephen W.

Arctic ice export events and their potential impact on global climate during the late Pleistocene: **Paleoceanography**, 17(2), p. 15.1-15.17, illus. incl. 2 tables, sketch map, 73 ref., June 2002.

58000699

Franzi, David A. (State University of New York at Plattsburgh, Plattsburgh, NY); Rayburn, John A.; Yansa, Catherine H. and Knueper, Peter L. K.

Late glacial water bodies in the Champlain and St. Lawrence lowlands and their paleoclimatic implications: *in* Guidebook for fieldtrips in New York and Vermont (McLellan, James, editor; *et al.*), Publisher unknown, p. A5.1-A5.23, sketch maps, 59 ref., 2002.

58000700

Connally, G. Gordon (New York State Museum, Albany, NY) and Cadwell, Donald H.
Glacial Lake Albany in the Champlain Valley: *in* Guidebook for fieldtrips in New York and Vermont (McLellan, James, editor; *et al.*), Publisher unknown, p. B8.1-B8.26, illus. incl. sketch maps, 45 ref., 2002.

58000701

Rodbell, Donald T. (Union College, Geology Department, Schenectady, NY).

Selected till and stratified drift deposits between Glens Falls and Amsterdam, New York: *in* Guidebook for fieldtrips in New York and Vermont (McLellan, James, editor; *et al.*), Publisher unknown, p. C10.1-C10.9, illus. incl. 1 table, sketch map, 18 ref., 2002.

58000702

Bockheim, J. G. (University of Wisconsin at Madison, Department of Soil Science and Institute for Environmental Studies, Madison, WI); Hinkel, K. M. and Nelson, F. E.

Soils of the Barrow region, Alaska: **Polar Geography** (1995), 25(3), p. 163-181, illus. incl. 2 tables, 32 ref., September 2001. Includes appendix; NSF grants OPP-9318528, OPP-9612647, and OPP-9529783.

58000703

Bishop, Michael P. (University of Nebraska at Omaha, Department of Geography and Geology, Omaha, NE); **Bonk, Radoslav; Kamp, Ulrich, Jr. and Shroder, John F., Jr.**
Terrain analysis and data modeling for alpine glacier mapping: **Polar Geography** (1995), 25(3), p. 182-201, illus. incl. 1 table, sketch map, 37 ref., September 2001. NSF Grant No. EAR-9418839 and EPS-9720643.

58000704

Lyons, W. Berry (Ohio State University, Byrd Polar Research Center, Columbus, OH);
Welch, Kathleen A.; Priscu, John C.; Labourn-Parry, Johanna; Moorhead, Daryl;
McKnight, Diane M.; Doran, Peter T. and Tranter, Martyn.

The McMurdo dry valleys Long-Term Ecological Research Program; new understanding of the biogeochemistry of the dry valley lakes; a review: **Polar Geography** (1995), 25(3), p. 202-217, illus. incl. 1 table, 62 ref., September 2001. NSF grants OPP-9211773 and OPP-9813061.

58000705

Raphael, Marilyn (University of California at Los Angeles, Department of Geography, Los Angeles, CA).

Response of the large-scale, Southern Hemisphere extratropical atmospheric circulation to extremes of Antarctic sea-ice concentration in a general circulation model: **Polar Geography** (1995), 25(3), p. 218-238, illus., 44 ref., September 2001. NSF grant No. 9908008.

58000706

Rasmussen, Rasmus Ole (NORS, North Atlantic Regional Studies, Roskilde, Denmark) and **Hamilton, Lawrence C.**

The development of fisheries in Greenland with focus on Paamiut/Frederikshab and Sismiut/Holsteinsborg: **NORS-skrifter**, Rep. No. 53, 124 p., illus. incl. sketch map, 37 ref., 2001.

58000707

Vuille, M. (University of Massachusetts, Amherst, MA); **Bradley, R. S.; Werner, M.; Healy, R. and Keimig, F.**

Modeling $\delta^{18}\text{O}$ in precipitation over the tropical Americas; 1, Interannual variability and climatic controls: **Journal of Geophysical Research, D, Atmospheres**, 108(6), 21 p., illus. incl. 2 tables, geol. sketch maps, 81 ref., March 27, 2003.

58000708

Vuille, M. (University of Massachusetts, Amherst, MA); **Bradley, R. S.; Healy, R.; Werner, M.; Hardy, D. R.; Thompson, L. G. and Keimig, F.**

Modeling $\delta^{18}\text{O}$ in precipitation over the tropical Americas; 2, Simulation of the stable isotope signal in Andean ice cores: **Journal of Geophysical Research, D, Atmospheres**, 108(6), 17 p., illus. incl. 3 tables, geol. sketch maps, 59 ref., March 27, 2003.

58000709

Wagnon, Patrick (Institut de Recherche pour le Développement, Laboratoire de Glaciologie et Géophysique de l'Environnement, Saint Martin d'Heres, France); **Sicart, Jean-Emmanuel; Berthier, Etienne and Chazarin, Jean-Philippe.**

Wintertime high-altitude surface energy balance of a Bolivian glacier, Illimani, 6340 m above sea level: **Journal of Geophysical Research, D, Atmospheres**, 108(6), 14 p., illus. incl. 5 tables, geol. sketch maps, 37 ref., March 27, 2003.

58000710

Lalonde, Janick D. (Université du Québec, Institut National de la Recherche Scientifique-Eau, Sainte-Foy, PQ, Canada); Amyot, Marc; Doyon, Marie-Renée and Auclair, Jean-Christian.

Photo-induced Hg(II) reduction in snow from the remote and temperate Experimental Lakes area (Ontario, Canada): **Journal of Geophysical Research, D, Atmospheres**, 108(6), 8 p., illus., 24 ref., March 27, 2003.

58000711

Stuart, A. L. (Stanford University, Stanford, CA) and Jacobson, M. Z.

A timescale investigation of volatile chemical retention during hydrometeor freezing; nonrime freezing and dry growth riming without spreading: **Journal of Geophysical Research, D, Atmospheres**, 108(6), 4 p., illus. incl. 9 tables, 40 ref., March 27, 2003.

58000712

Knüsel, S. (University of Bern, Department of Chemistry and Biochemistry, Bern, Switzerland); Ginot, P.; Schotterer, U.; Schwikowski, M.; Gäggeler, H. W.; Francou, B.; Petit, J. R.; Simoes, J. C. and Taupin, J. D.

Dating of two nearby ice cores from the Illimani, Bolivia: **Journal of Geophysical Research, D, Atmospheres**, 108(6), 11 p., illus. incl. 2 tables, geol. sketch maps, 40 ref., March 27, 2003.

58000713

Strozzi, Tazio (Gamma Remote Sensing, Muri, Switzerland); Wegmüller, Urs; Werner, Charles and Wiesmann, Andreas.

Alpine landslide periodical survey: *in* Remote sensing; integrating our view of the planet; proceedings (Ledrew, Ellsworth F., chairperson), **International Geoscience and Remote Sensing Symposium**, 2002, Volume 6, p. 3629-3631, illus., 6 ref., 2002. *Meeting:* 24th Canadian symposium on Remote sensing, June 24-28, 2002, Toronto, ON, Canada.

58000714

McAlister, Padraig.

Ice composite bodies: Rep. No. US 6,099,208, unpaginated, 16 ref., August 8, 2000. *Available from:* U. S. Patent Office, Washington, DC, United States. Patent No. 6,099,208; Application no. 101539 filed July 10, 1998.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6,099,208.WKU.&OS=PN/6,099,208&RS=PN/6,099,208>

58000715

Sielagoski, Gerald L. (Visteon Global Technologies, Dearborn, MI); Friedrich, Mark Peter and Rahaim, Sam G.

Method and system for adjusting headway in an adaptive speed control system based on road surface coefficient of friction: Rep. No. US 6,445,153, unpaginated, 13 ref., September 3, 2002. *Available from:* U. S. Patent Office, Washington, DC, United States. Patent No. 6,445,153; Application no. 864010 filed May 23, 2001.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6,445,153.WKU.&OS=PN/6,445,153&RS=PN/6,445,153>

58000716

Hartley, Robert A. (Sears Petroleum and Transport Corporation, Rome, NY) and Wood, David H.

De-icing solution: Rep. No. US 6,440,325, unpaginated, 14 ref., August 27, 2002. *Available from:* U. S. Patent Office, Washington, DC, United States. Patent No. 6,440,325; application no. 971163 filed Oct. 4, 2001.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6,440,325.WKU.&OS=PN/6,440,325&RS=PN/6,440,325>

58000717

Becker, James R. (Waste Minimization and Containment, Cleveland, OH).

Dry ice pellet surface removal apparatus and method: Rep. No. US 6,174,225, unpaginated, 14 ref., January 16, 2001. *Available from:* U. S. Patent Office, Washington, DC, United States. Patent No. 6,174,225; Application no. 969579 filed Nov. 13, 1997.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6174225.WKU.&OS=PN/6174225&RS=PN/6174225>

58000718

Struck, John M. (Sno-Way International, Hartford, WI) and Wendorff, Terry.

Apparatus and method for testing snow removal equipment: Rep. No. US 6,351,722, unpaginated, 13 ref., February 26, 2002. *Available from:* U. S. Patent Office, Washington, DC, United States. Patent No. 6,351,722; Application 597103 filed June 20, 2000.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6351722.WKU.&OS=PN/6351722&RS=PN/6351722>

58000719

Kono, Masakatsu (Honda Giken Kogyo Kabushiki Kaisha, Japan); Yoshida, Isao; Sueshige, Hiroshi and Shimizu, Norikazu.

Snow removal machine: Rep. No. US 6,449,882, unpaginated, 18 ref., September 17, 2002.

Available from: U. S. Patent Office, Washington, DC, United States. Patent No. 6,449,882; Application No. 754644 filed Jan. 4, 2001.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6449882.WKU.&OS=PN/6449882&RS=PN/6449882>

58000720

O'Brien, Orlin P.

Snow removal apparatus: Rep. No. US 6,508,018, unpaginated, 10 ref., January 21, 2003. *Available from:* U. S. Patent Office, Washington, DC, United States. Patent No. 6,508,018; Application No. 738028 filed Dec. 14, 2000.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6508018.WKU.&OS=PN/6508018&RS=PN/6508018>

58000721

Takeuchi, Masashi (Honda Giken Kogyo Kabushiki Kaisha, Japan).

Chute for snow removal machine: Rep. No. US 6,568,106, unpaginated, 16 ref., May 27, 2003.

Available from: U. S. Patent Office, Washington, DC, United States. Patent No. 6,568,106; Application No. 992705 filed Nov. 14, 2001.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6568106.WKU.&OS=PN/6568106&RS=PN/6568106>

58000722

Ito, Tomoki (Honda Giken Kogyo Kabushiki Kaisha, Japan); Yamamoto, Takahiro; Shimizu, Norikazu and Kono, Masakatsu.

Snow removal machine: Rep. No. US 6,578,934, unpaginated, 9 ref., June 17, 2003. Available from: U. S. Patent Office, Washington, DC, United States. Patent No. 6,578,934; Application No. 903789 filed July 12, 2001.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6578934.WKU.&OS=PN/6578934&RS=PN/6578934>

58000723

McKay, Christopher (NASA, Ames Research Center, Space Science Division, Moffett Field, CA).

Life on Mars; past, present, and future: **Journal of the Mississippi Academy of Sciences**, 48(3), p. 132-137, illus. incl. 1 table, 29 ref., July 2003.

58000724

Batterson, Martin J. (Geological Survey of Newfoundland and Labrador, Department of Mines and Energy, Saint John's, NF, Canada) and Catto, Norm R.

Topographically-controlled deglacial history of the Humber River basin, western Newfoundland: **Géographie Physique et Quaternaire**, 55(3), p. 213-228 (French, Spanish sum.), illus. incl. 1 table, sketch maps, 73 ref., 2001.

58000725

André, Marie-Françoise (Université Blaise-Pascal, Laboratoire de Géographie Physique, Clermont-Ferrand, France).

Tors et roches moutonnées en Laponie suédoise; antagonisme ou filiation? [Tors and roches moutonnees in Swedish Lapland; antagonistic or affiliated landforms?]: **Géographie Physique et Quaternaire**, 55(3), p. 229-242 (English, German sum.), illus. incl. 3 tables, sketch map, 46 ref., 2001.

58000726

Cummings, Don (Université du Québec à Montréal, Département des Sciences de la Terre, Montreal, PQ, Canada) and Occhietti, Serge.

Late Wisconsinan sedimentation in the Québec City region; evidence for energetic subaqueous fan deposition during initial deglaciation: **Géographie Physique et Quaternaire**, 55(3), p. 257-273 (French, Spanish sum.), illus. incl. sect., strat. cols., 2 tables, sketch maps, 71 ref., 2001.

58000727

Dickson, Bob (Centre for Environment, Fisheries and Aquaculture Science, Lowestaff, United Kingdom).

Stirring times in the Atlantic: **Nature (London)**, 424(6945), p. 141-142, illus. incl. sketch maps, 15 ref., July 10, 2003.

58000728

Pickart, R. S. (Woods Hole Oceanographic Institution, Woods Hole, MA); Spall, M. A.; Ribergaard, M. H.; Moore, G. W. K. and Milliff, R. F.

Deep convection in the Irminger Sea forced by the Greenland tip jet: **Nature (London)**, 424(6945), p. 152-156, illus. incl. sketch maps, 24 ref., July 10, 2003.

58000729

Royer, D. L. (University of Sheffield, Department of Animal and Plant Sciences, Sheffield, United Kingdom); Osborne, C. P. and Beerling, D. J.

Carbon loss by deciduous trees in a CO₂-rich ancient polar environment: **Nature (London)**, 424(6944), p. 60-62, illus., 30 ref., July 3, 2003.

58000730

McCarroll, Danny (University of Wales Swansea, Department of Geography, Swansea, United Kingdom) and Rijsdijk, Kenneth F.

Deformation styles as a key for interpreting glacial depositional environments: **JQS. Journal of Quaternary Science**, 18(6), p. 473-489, illus. incl. 1 plate, 1 table, sects., strat. cols., sketch map, 88 ref., September 2003.

58000731

Chepstow-Lusty, Alex (Florida Institute of Technology, Department of Biological Sciences, Melbourne, FL); Frogley, Michael R.; Bauer, Brian S.; Bush, Mark B. and Herrera, Alfredo Tupayachi.

A late Holocene record of arid events from the Cuzco region, Peru: **JQS. Journal of Quaternary Science**, 18(6), p. 491-502, illus. incl. 1 plate, 1 table, sketch map, 66 ref., September 2003.

58000732

Lokrantz, Hanna (Geological Survey of Sweden, Uppsala, Sweden); Ingolfsson, Olafur and Forman, Steven L.

Glaciotectonised Quaternary sediments at Cape Shpindler, Yugorski Peninsula, Arctic Russia; implications for glacial history, ice movements and Kara Sea ice sheet configuration: **JQS. Journal of Quaternary Science**, 18(6), p. 527-543, illus. incl. 1 plate, 2 tables, sects., strat. cols., geol. sketch maps, 73 ref., September 2003.

58000733

Yu Ge (Chinese Academy of Sciences, Nanjing Institute of Geography and Limnology, Nanjing, China); Xue Bin; Liu Jian and Chen Xing.

LGM lake records from China and an analysis of climate dynamics using a modelling approach: **Global and Planetary Change**, 38(3-4), p. 223-256, illus. incl. 1 table, sketch maps, 133 ref., September 2003. Includes appendices.

58000734

Michelutti, Neal (Queen's University, Paleoecological Environmental Assessment and Research Laboratory (PEARL), Kingston, ON, Canada); Douglas, Marianne S. V. and Smol, John P.

Diatom response to Recent climatic change in a High Arctic lake (Char Lake, Cornwallis Island, Nunavut): **Global and Planetary Change**, 38(3-4), p. 257-271, illus. incl. 2 tables, sketch map, 61 ref., September 2003.

58000735

Haraldsson, Hordur (Lund Institute of Technology, Chemical Engineering II, Lund, Sweden) and Olafsdottir, Rannveig.

Simulating vegetation cover dynamics with regards to long-term climatic variations in sub-arctic landscapes: **Global and Planetary Change**, 38(3-4), p. 313-325, illus. incl. sketch map, 48 ref., September 2003.

58000736

Harris, Charles (Cardiff University, Department of Earth Sciences, Cardiff, United Kingdom); **Vonder Mühll, Daniel; Isaksen, Ketil; Haeberli, Wilfried; Sollid, Johan Ludvig; King, Lorenz; Holmlund, Per; Dramis, Francesco; Guglielmin, Mauro and Palacios, David.** Warming permafrost in European mountains: **Global and Planetary Change**, 39(3-4), p. 215-225, illus. incl. 2 tables, sketch map, 33 ref., November 2003.

58000737

Theissen, Kevin M. (Stanford University, Department of Geological and Environmental Sciences, Stanford, CA); **Dunbar, Robert B.; Cooper, Alan K.; Mucciarone, David A. and Hoffmann, Dirk.**

The Pleistocene evolution of the East Antarctic ice sheet in the Prydz Bay region; stable isotopic evidence from ODP Site 1167: **Global and Planetary Change**, 39(3-4), p. 227-256, illus. incl. 3 tables, sketch maps, 66 ref., November 2003. NSF Grant OPP-9909837.

58000738

Mallinson, David J. (East Carolina University, Department of Geology, Greenville, NC); **Flower, Benjamin; Hine, Albert C.; Brooks, Gregg R. and Garza, Roberto Molina.** Paleoclimate implications of high latitude precession-scale mineralogic fluctuations during early Oligocene Antarctic glaciation; the Great Australian Bight record: **Global and Planetary Change**, 39(3-4), p. 257-269, illus. incl. sketch map, 48 ref., November 2003.

58000739

Todd, Andrew (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO); **McKnight, Diane and Wyatt, Lane.**

Abandoned mines, mountain sports, and climate variability; implications for the Colorado tourism economy: **Eos, Transactions, American Geophysical Union**, 84(38), p. 377, 386, illus., 12 ref., September 23, 2003.

58000740

Pratt, Sara.

New model for glacial erosion: **Geotimes**, 48(10), p. 8-9, illus., October 2003.

58000741

Piotrowski, Jan A. (University of Aarhus, Department of Earth Sciences, Aarhus, Denmark).

Glaciers at work: **Nature (London)**, 424(6950), p. 737-738, illus., 10 ref., August 14, 2003.

58000742

Alley, R. B. (Pennsylvania State University, Department of Geosciences, University Park, PA); **Lawson, D. E.; Larson, G. J.; Evenson, E. B. and Baker, G. S.**

Stabilizing feedbacks in glacier-bed erosion: **Nature (London)**, 424(6950), p. 758-760, illus., 30 ref., August 14, 2003.

58000743

Overland, James E. (NOAA, Pacific Marine Environmental Laboratory, Seattle, WA) and Wood, Kevin.

Accounts from 19th-century Canadian Arctic explorers' logs reflect present climate conditions: **Eos, Transactions, American Geophysical Union**, 84(40), p. 410, 412, illus. incl. geol. sketch map, 7 ref., October 7, 2003.

58000744

Sidorchuk, Aleksey (Moscow State University, Geographical Faculty, Moscow, Russian Federation).

Floodplain sedimentation; inherited memories: *in* Supply and flux of sediment along hydrological pathways; research for the 21st century (Syvitski, James P. M., editor), **Global and Planetary Change**, 39(1-2), p. 13-29, illus. incl. 5 tables, sketch maps, 31 ref., October 2003.

58000745

Meybeck, Michel (Université de Paris VI, Paris, France); Laroche, L.; Dürr, H. H. and Syvitski, James P. M.

Global variability of daily total suspended solids and their fluxes in rivers: *in* Supply and flux of sediment along hydrological pathways; research for the 21st century (Syvitski, James P. M., editor), **Global and Planetary Change**, 39(1-2), p. 65-93, illus. incl. 3 tables, 94 ref., October 2003.

58000746

Morehead, Mark D. (University of Idaho, Ecohydraulics Research Group, Boise, ID); Syvitski, James P. M.; Hutton, Eric W. H. and Peckham, Scott D.

Modeling the temporal variability in the flux of sediment from ungauged river basins: *in* Supply and flux of sediment along hydrological pathways; research for the 21st century (Syvitski, James P. M., editor), **Global and Planetary Change**, 39(1-2), p. 95-110, illus. incl. 8 tables, 22 ref., October 2003. Includes appendix.

58000747

Bobrovitskaya, Nelly N. (State Hydrological Institute, Saint Petersburg, Russian Federation); Kokorev, Alexander V. and Lemeshko, Nataly A.

Regional patterns in Recent trends in sediment yields of Eurasian and Siberian rivers: *in* Supply and flux of sediment along hydrological pathways; research for the 21st century (Syvitski, James P. M., editor), **Global and Planetary Change**, 39(1-2), p. 127-146, illus. incl. 7 tables, sketch map, 21 ref., October 2003.

58000748

Hu, Feng Sheng (University of Illinois, Department of Plant Biology, Urbana, IL); Kaufman, Darrell; Yoneji, Sumiko; Nelson, David; Shemesh, Aldo; Huang, Yongsong; Tian, Jian; Bond, Gerard; Clegg, Benjamin and Brown, Thomas.

Cyclic variation and solar forcing of Holocene climate in the Alaskan subarctic: **Science**, 301(5641), p. 1890-1893, illus. incl. sketch maps, 43 ref., September 26, 2003. *diatoms, pollen*

58000749

Gillet, Nathan P. (University of Victoria, School of Earth and Ocean Sciences, Victoria, BC, Canada) and Thompson, David W. J.

Simulation of Recent Southern Hemisphere climate change: **Science**, 302(5643), p. 273-275, illus. incl. sketch maps, 41 ref., October 10, 2003.

58000750

Mudelsee, M. (University of Leipzig, Institute of Meteorology, Leipzig, Federal Republic of Germany); Börngen, Michael; Tetzlaff, G. and Grünwald, U.
No upward trends in the occurrence of extreme floods in Central Europe: **Nature (London)**, 425(6954), p. 166-169, illus., 29 ref., September 11, 2003.

58000751

Rignot, Eric (Jet Propulsion Laboratory, Pasadena, CA); Rivera, Andrés and Casassa, Gino.

Contribution of the Patagonia icefields of South America to sea level rise: **Science**, 302(5644), p. 434-437, illus. incl. sketch maps, 31 ref., October 17, 2003.

58000752

Bergqvist, Erik (Uppsala Univ., Naturgeografiska Inst., Uppsala, Sweden).

Nip-och ravinlandskap i soda och mellersta Sverige; Oversikter och forslag till naturreservat [Terrace and gully landscapes in southern and central Sweden; surveys and proposals for nature reserves]: **UNGI Rapport**, 77, 163 p., illus. incl. 3 tables, 1990.

58000753

Erlingsson, Ulf (Uppsala Univ., Dep. Physical Geography, Uppsala, Sweden).

Geomorphological development of the bottoms off Osterlen, southernmost Sweden: **UNGI Rapport**, 76, 143 p., illus. incl. 3 tables; bathymetric map, 1:50,000, Doctoral, 1990, Uppsala University, Uppsala.

58000754

Josefsson, Melanie (Uppsala Univ., Dep. Physical Geography, Uppsala, Sweden).

The geoecology of subalpine heaths in the Abisko Valley, northern Sweden; a study of periglacial conditions: **UNGI Rapport**, 78, 187 p., illus. incl. 6 tables, Doctoral, 1990, Uppsala University, Uppsala.

58000755

Gonzalez Cardenas, E. (Fac. Let., Dep. Geol. Ord. Territ., Ciudad Real, Spain) and Sanchez Gonzalez, E.

Geomorfologia de los afloramientos Hercinicos del Sur de Ciudad Real [Geomorphology of Hercynian outcrops in the southern part of Ciudad Real]: *in* 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; *et al.*), Inst. Est. Turolenses, Teruel, Spain, p. 27-37 (English sum.), geol. sketch maps, 9 ref., 1990. *Meeting*: Sept. 17-20, 1990, Teruel, Spain.

58000756

Bueno Jimenez, M.

Apuntes geomorfologicos en Sierra Almijara, Cordilleras Beticas; propuesta de morfologia glacial [Geomorphological study of the Sierra Almijara, Betic Cordillera; glacial morphology]: *in* 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; *et al.*), Inst. Est. Turolenses, Teruel, Spain, p. 159-168 (English sum.), illus., 15 ref., 1990. *Meeting*: Sept. 17-20, 1990, Teruel, Spain.

58000757

Gonzalez Amuchastegui, M. J. (Univ. Autonoma Madrid, Dep. Geogr., Madrid, Spain) and Gonzalez Martin, J. A.

Derrubios crioclasticos y etapas frias en el area de Molina de Aragon (Guadalajara) [Cryoclastic screes and cold stages in the Molina de Aragon area, Guadalajara]: *in 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; et al.)*, Inst. Est. Turolenses, Teruel, Spain, p. 169-178 (English sum.), sect., geol. sketch maps, 12 ref., 1990. *Meeting: Sept. 17-20, 1990, Teruel, Spain.*

58000758

Jimenez Sanchez, M. (Univ. Oviedo, Dep. Geol., Oviedo, Spain) and Marquinez, J.

Morfologia glaciar en la cuenca alta del Rio Nalon, Cordillera Cantabrica [Glacial morphology of the upper Nalon River basin, Cantabrian Cordillera]: *in 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; et al.)*, Inst. Est. Turolenses, Teruel, Spain, p. 179-189 (English sum.), illus. incl. 1 table, geol. sketch maps, 9 ref., 1990. *Meeting: Sept. 17-20, 1990, Teruel, Spain.*

58000759

Gutiérrez Elorza, Mateo (Univ. Zaragoza, Dep. Cienc. Tierra, Saragossa, Spain) and Pena Monne, J. L.

Guia de la excursion a la Sierra de Albarracin [Excursion guide to the Sierra de Albarracin]: *in 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; et al.)*, Inst. Est. Turolenses, Teruel, Spain, p. 803-823, block diag., geol. sketch maps, 18 ref., 1990. *Meeting: Sept. 17-20, 1990, Teruel, Spain.*

58000760

Corominas Dulcet, J. (Univ. Politec. Catalunya, Dep. Ing. Terreno, Barcelona, Spain).

Influencia del glaciacionismo quaternario en la estabilidad de las laderas del Valle del Valira d'Orient (Andorra) [The effect of Quaternary glaciation on slope stability in the Valirat d'Orient Valley, Andorra]: *in 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; et al.)*, Inst. Est. Turolenses, Teruel, Spain, p. 521-532 (English sum.), geol. sketch maps, 12 ref., 1990. *Meeting: Sept. 17-20, 1990, Teruel, Spain.*

58000761

Marti, M. (Univ. Barcelona, Dep. Geogr. Fis. Anal. Geogr. Reg., Barcelona, Spain).

Los glaciares rocosos del Pirineo Catalan; primeros resultados [Rock glaciers in the Pyrenees of Catalonia; preliminary results]: *in 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; et al.)*, Inst. Est. Turolenses, Teruel, Spain, p. 191-201, illus. incl. geol. sketch map, 9 ref., 1990. *Meeting: Sept. 17-20, 1990, Teruel, Spain.*

58000762

Sanchez, S. (Univ. Granada, Dep. Edafol. Quim. Agric., Granada, Spain); Simon, M. and Garcia, I.

Morfogenesia glaciar de la Cuenca del Rio Lanjaron (Sierra Nevada, Granada) [Glacial morphogenesis of the Lanjaron River basin, Sierra Nevada, Granada]: *in 1 reunion nacional de geomorfologia; actas (Gutierrez, M., editor; et al.)*, Inst. Est. Turolenses, Teruel, Spain, p. 203-210 (English sum.), geol. sketch map, 16 ref., 1990. *Meeting: Sept. 17-20, 1990, Teruel, Spain.*

58000763

Sanchez, S. (Univ. Granada, Dep. Edafol. Quim. Agric., Granada, Spain); Simon, M. and Garcia, I.

Morfogenesis glaciar de las cabeceras de las cuencas de los ríos Monachil y Dilar (Sierra Nevada, Granada) [Glacial morphogenesis of the headwaters of the Monachil and Dilar catchments, Sierra Nevada, Granada]: *in 1 reunion nacional de geomorfología; actas* (Gutierrez, M., editor; *et al.*), Inst. Est. Turolenses, Teruel, Spain, p. 211-219 (English sum.), geol. sketch map, 20 ref., 1990. *Meeting*: Sept. 17-20, 1990, Teruel, Spain.

58000764

Serrano Canadas, E.

Evolucion glaciar intramontana en la vertiente occidental de la Cordillera Blanca (Andes Peruanas) [Intermontane glacial evolution of the western slope of the Cordillera Blanca, Peruvian Andes]: *in 1 reunion nacional de geomorfología; actas* (Gutierrez, M., editor; *et al.*), Inst. Est. Turolenses, Teruel, Spain, p. 221-232 (English sum.), geol. sketch maps, 9 ref., 1990. *Meeting*: Sept. 17-20, 1990, Teruel, Spain.

58000765

Roca, A. (CSIC, Est. Exp. Zaidin, Granada, Spain); Quirantes, J. and Sierra, C.

Los glaciares y terrazas de la cuenca del Río Gualchos (Castell de Ferro, Granada) [Glaciers and terraces of the Gualchos River basin, Castell de Ferro, Granada]: *in 1 reunion nacional de geomorfología; actas* (Gutierrez, M., editor; *et al.*), Inst. Est. Turolenses, Teruel, Spain, p. 309-318 (English sum.), geol. sketch maps, 8 ref., 1990. *Meeting*: Sept. 17-20, 1990, Teruel, Spain.

58000766

Oetheimer, C. (CNRS, Cent. Géomorphologie, Caen, France).

La foresta sommersa del Lago di Tovel (Trentino); reinterpretazione e datazione dendrocronologica [The submerged forest of Lake Tovel (Trentino); reinterpretation and dendrochronological dating]: *Studi Trentini di Scienze Naturali: Acta Geologica*, 67, p. 3-23 (English, German, French sum.), illus., 2 p. ref., 1990.

58000767

Venzo, G. A. (Univ. Trento, Dip. Ing. Civile Ambientale, Trento, Italy).

Epigenesi del T. Avisio a Gresta (Val di Cembra, Trentino, Italia) [Epigenesis of the Avisio River at Gresta, Cembra Valley, Trentino, Italy]: *Studi Trentini di Scienze Naturali: Acta Geologica*, 67, p. 25-29 (English sum.), illus., 2 ref., 1990.

58000768

Krzeszkowski, D. (Uniw. Wroclawski, Inst. Geogr., Wroclaw, Poland).

Stratygrafia i ewolucja srodowisk depozycyjnych w srodkowovistulianskiej Formacji Piaski (odkrywka Belchatow, srodkowa Polska) [Stratigraphy and evolution of the sedimentary environments of the middle Weichselian Piaski Formation, Belchatow outcrop, central Poland]: *Zeszyty Naukowe Akademii Górnictwo-Hutniczej im. Stanisława Staszica, Geologia = Scientific Bulletins of the Stanislaw Staszic University of Mining and Metallurgy, Geology*, 16(4), p. 9-42 (English sum.), illus. incl. strat. cols., charts, sects., sketch map, 4 p. ref., 1990, [1991].

58000769

Schaer, Jean-Paul (Université de Neuchatel, Neuchatel, Switzerland).

Agassiz et les glaciers; sa conduite de la recherche et ses merites [Agassiz and glaciers; his research and its merits]: **Eclogae Geologicae Helvetiae**, 93(2), p. 231-256 (English sum.), illus. incl. 1 table, 109 ref., 2000.

58000770

Russell, G. L. (NASA, Goddard Institute for Space Studies, New York, NY); Gornitz, V. and Miller, J. R.

Regional sea level changes projected by the NASA/GISS atmosphere-ocean model: **Climate Dynamics**, 16(10-11), p. 789-797, 4 tables, geol. sketch maps, 29 ref., 2000.

58000771

Washington, W. M. (National Center for Atmospheric Research (NCAR), Boulder, CO); Weatherly, J. W.; Meehl, G. A.; Semtner A. J., Jr.; Bettge, T. W.; Craig, A. P.; Strand, W. G., Jr.; Arblaster, J.; Wayland, V. B.; James, R. and Zhang, Y.

Parallel climate model (PCM) control and transient simulations: **Climate Dynamics**, 16(10-11), p. 755-774, illus. incl. 1 table, geol. sketch maps, 52 ref., 2000.

58000772

Duplisea, Daniel E. (Stockholm University, Department of Systems Ecology, Stockholm, Sweden).

Benthic organism biomass size-spectra in the Baltic Sea in relation to the sediment environment: **Limnology and Oceanography**, 45(3), p. 558-568, illus. incl. 5 tables, sketch map, 58 ref., May 2000.

58000773

Hanninen, Jari (University of Turku, Archipelago Research Institute, Turku, Finland); Vuorinen, Ilppo and Hjelt, Pekka.

Climatic factors in the Atlantic control the oceanographic and ecological change in the Baltic Sea: **Limnology and Oceanography**, 45(3), p. 703-710, illus. incl. 1 table, sketch map, 40 ref., May 2000.

58000774

Nullet, Dennis (University of Hawai'i at Hilo, Department of Geology, Hilo, HI); Fletcher, Charles H., III; Hotchkiss, Sara and Juvik, James O.

Paleoclimate and geography: *in* Atlas of Hawai'i (Juvik, Sonia P., editor; *et al.*), 3rd edition, University of Hawai'i, Honolulu, HI, p. 64-66, illus., 1988.

58000775

Karukapp, Reet (Estonian Academy of Sciences, Institute of Geology, Tallinn, Estonia); Moora, Tanel and Pirrus, Reet.

Geological events determining the Stone Age environment of Kunda: *in* Coastal Estonia; recent advances in environmental and cultural history (Hackens, Tony, editor; *et al.*), **PACT (Strasbourg)**, 51, p. 219-229, illus. incl. sects., geol. sketch maps, 12 ref., 1996.

58000776

Moora, Tanel (Estonian Academy of Sciences, Department of Archaeology, Tallinn, Estonia) and Moora, Harri.

The ridge of Hiiemagi as a precondition for the formation of the ancient Lake Kunda: *in Coastal Estonia; recent advances in environmental and cultural history* (Hackens, Tony, editor; *et al.*), **PACT (Strasbourg)**, 51, p. 231-240, illus. incl. 2 plates, 3 tables, geol. sketch maps, 7 ref., 1996.

58000777

Neff, Jerry M. (Arthur D. Little, Cambridge, MA).

Water quality in Prince William Sound and the Gulf of Alaska; March, 1991 (an update of the April, 1990 report): Arthur D Little, Cambridge, MA, 37 p., illus. incl. 4 tables, sketch map, 50 ref., 1991. Includes appendix.

58000778

Goodwin, Ian D. (SCAR, Global Change Programme, Hobart, Tasmania, Australia).

Global change and the Antarctic; an overview of the SCAR GLOCHANT Programme: **Global Change Newsletter**, 29, p. 13-14, illus. incl. 1 table, March 1997.

58000779

Ichii, T. (National Research Institute of Far Seas Fisheries, Shimizu, Japan); Katayama, K.; Obitsu, N.; Ishii, H. and Naganobu, M.

Occurrence of Antarctic krill (*Euphausia superba*) concentrations in the vicinity of the South Shetland Islands; relationship to environmental parameters: **Deep-Sea Research. Part I: Oceanographic Research Papers**, 45(8), p. 1235-1262, illus. incl. 2 tables, 63 ref., August 1998.

58000780

Thomas, George H.

Thumbless snow removal and cleaning paddle: Rep. No. US 6,019,854, unpaginated, 24 ref., February 1, 2000. Available from: U. S. Patent Office, Washington, DC, United States. Patent No. 6,019,854; Application no. 090694 filed June 5, 1998.

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/net/ahtml/srchnum.htm&r=1&f=G&l=50&s1=6,019,854.WKU.&OS=PN/6,019,854&RS=PN/6,019,854>

58000916

Robert, Sylvain (University of Sherbrooke, Canada).

Contribution to the study of frazil nucleation: 148 p., illus. incl. 11 tables, 85 ref., Master's, January 1979, Universite Laval, Ste.-Foy, PQ. Includes appendices.

58000923

Shields, Graham A. (University of Ottawa, Ottawa-Carleton Geoscience Centre, Ottawa, ON, Canada).

"Molar-tooth microspar"; a chemical explanation for its disappearance ~ 750 Ma: **Terra Nova**, 14(2), p. 108-113, illus. incl. 2 tables, 60 ref., April 2002. IGCP Project No. 447.

58000924

Lan Yongchao (Chinese Academy of Sciences, Cold and Arid Regions Environmental and Engineering Research Institute, Lanzhou, China); Wang Jian; Kang Ersi; Ma Quanjie; Zhang Jishi and Chen Rensheng.

Snow cover monitoring by remote sensing and snowmelt runoff calculation in the upper Huanghe River basin: **Chinese Geographical Science**, 12(2), p. 120-125, illus. incl. 2 tables, sketch maps, 14 ref., 2002.

58000925

Ohno, Hideki (Kyorin University, Department of Molecular Predictive Medicine and Sport Science, Mitaka, Japan); Suzuki, Kenji; Hitomi, Yoshiaki; Kizaki, Takako; Nukita, Meneo; Haga, Shukoh; Noguchi, Izumi; Radak, Zsolt; Kobayashi, Kano; Ohnuki, Yoshito; Mori, Shigeo and Miyamura, Miharu.

Gene expression at high altitude: *in* 2nd Italian workshop on Human adaptation in Antarctica and extreme environments (Peri, Antonio, prefacer), Scientific Committee on Antarctic Research (SCAR), International, p. 8-17, illus., 27 ref., 2001. *Meeting:* Sept. 24-29, 2001, Leghorn, Italy.

58000926

Bachelard, C.; Decamps, G.; Rivolier, J.; Rosnet, E. and Cazes, G.

Adjustment manifestations during polar winter-over; pre-definition of a practical detection instrument: *in* 2nd Italian workshop on Human adaptation in Antarctica and extreme environments (Peri, Antonio, prefacer), Scientific Committee on Antarctic Research (SCAR), International, p. 73-77, 3 ref., 2001. *Meeting:* Sept. 24-29, 2001, Leghorn, Italy.

58000927

Hughes, P. M. (British Antarctic Survey, Medical Unit, Cambridge, United Kingdom); DeKimpe, P.; Farmer, K. D.; Marquis, P.; Bradbury, P.; Grant, I. C. and Andrews, C. J. H.
Image transfer from the Antarctic to the United Kingdom of X-ray images using a standard digital camera; a blinded comparison of conventional radiographs and their digitised images in the diagnosis of common pathology: *in* 2nd Italian workshop on Human adaptation in Antarctica and extreme environments (Peri, Antonio, prefacer), Scientific Committee on Antarctic Research (SCAR), International, p. 51-57, illus., 2001. *Meeting:* Sept. 24-29, 2001, Leghorn, Italy.
Includes 2 appendices.

58000928

Takahashi, Wataru (Japan Coast Guard, Hydrographic and Oceanographic Department, Tokyo, Japan); Kojima, Tetsuya and Seo, Noritsune.

Oceanographic data of the 42nd Japanese Antarctic Research Expedition from November 2000 to March 2001: **JARE Data Reports**, Rep. No. 266, 60 p., illus. incl. 10 tables, sketch map, 9 ref., September 2002.

58000929

van Wayenburg, Bruno.

Could water replace heat shield tiles?: **New Scientist (1971)**, 177(2388), p. 21, illus., March 29, 2003.

58000930

Younger, P. T. (University of Bath, Department of Electronics and Electrical Engineering, Avon, United Kingdom); Pancheva, D.; Middleton, H. R. and Mitchell, N. J.
The 8-hour tide in the Arctic mesosphere and lower thermosphere: **Journal of Geophysical Research, A, Space Physics**, 107(12), 11 p., illus., 29 ref., December 1, 2002.

58000931

Kreslavsky, Mikhail A. (Brown University, Department of Geological Sciences, Providence, RI) and Head, James W.
Fate of outflow channel effluents in the northern lowlands of Mars; the Vastitas Borealis Formation as a sublimation residue from frozen ponded bodies of water: **Journal of Geophysical Research, E, Planets**, 107(12), 25 p., illus., 96 ref., December 25, 2002.

58000932

Carr, Michael H. (U. S. Geological Survey, Menlo Park, CA).
Elevations of water-worn features on Mars; implications for circulation of groundwater: **Journal of Geophysical Research, E, Planets**, 107(12), 11 p., illus. incl. 1 table, 75 ref., December 25, 2002.

58000933

Grey, I. D. S. (University of Kent at Canterbury, Center for Astrophysics and Planetary Science, Canterbury, United Kingdom) and Burchell, M. J.
Hypervelocity impact cratering on water ice targets at temperatures ranging from 100 K to 253 K: **Journal of Geophysical Research, E, Planets**, 108(3), 8 p., illus. incl. 2 tables, 24 ref., March 25, 2003.

58000934

Richardson, Mark I. (California Institute of Technology, Division of Geological and Planetary Sciences, Pasadena, CA); Wilson, R. John and Rodin, Alexander V.
Water ice clouds in the Martian atmosphere; general circulation model experiments with a simple cloud scheme: **Journal of Geophysical Research, E, Planets**, 107(9), 29 p., illus., 44 ref., September 25, 2002.

58000935

Duan Keqin (Chinese Academy of Sciences, Cold and Arid Regions Environmental and Engineering Research Institute, Lanzhou, China); Wang Ninglian and Pu Jianchen.
Events of abrupt change of Indian monsoon recorded in Dasuopu ice core from Himalayas: **Chinese Science Bulletin**, 47(8), p. 691-696, illus., 25 ref., April 2002.

58000936

Hibbitts, C. A. (University of Hawaii, Hawaii Institute for Geophysics and Planetology, Honolulu, HI); Klemaszewski, J. E.; McCord, T. B.; Hansen, G. B. and Greeley, R.
CO₂-rich impact craters on Callisto: **Journal of Geophysical Research, E, Planets**, 107(10), 12 p., illus., 51 ref., October 25, 2002.

58000937

Lai Yuanming (Chinese Academy of Sciences, State Key Lab. of Frozen Soil Engineering, Lanzhou, China); Zhang Luxin; Zhang Shujuan and Mi Long.

Cooling effect of rippled-stone embankments on Qing-Tibet railway under climatic warming: **Chinese Science Bulletin**, 48(6), p. 598-604, illus. incl. 2 tables, 11 ref., March 2003.

58000938

Digranes, Per (University of Bergen, Institute of Solid Earth Physics, Bergen, Norway); Mjelde, Rolf; Kodaira, Shuichi; Shimamura, Hideki; Kanazawa, Toshihiko and Shiobara, Hajime.

Regional and semi-regional modelling of wide-angle shear waves in OBS data from the Voring Basin, N. Norway; a comparison: **Earth, Planets and Space**, 55(2), p. 65-81, illus. incl. sects., sketch maps, 65 ref., 2003.

58000939

Tanikawa, Tomonori (University of Tsukuba, Ibaraki, Japan); Aoki, Teruo; Hachikubo, Akihiro; Hori, Masahiro and Aniya, Masamu.

Validation of algorithms to retrieve snow grain size and impurities using airborne multispectral scanner data of eastern Hokkaido: **Science Reports of the Institute of Geoscience, University of Tsukuba, Section A: Geography and Hydrology**, 24, p. 71-86, illus. incl. sketch map, 32 ref., March 25, 2003.

58000940

Petroski, Henry (Duke University, Durham, NC).

Floating bridges: **American Scientist**, 91(4), p. 302-306, illus., 4 ref., August 2003.

58000941

Vondrak, Richard (NASA, Goddard Space Flight Center, Laboratory of Extraterrestrial Physics, Greenbelt, MD) and Crider, Dana.

Ice at the lunar poles: **American Scientist**, 91(4), p. 322-329, illus., 10 ref., August 2003.

58000942

Kareiva, Peter (Nature Conservancy, Seattle, WA) and Marvier, Michelle.

Conserving biodiversity coldspots: **American Scientist**, 91(4), p. 344-351, illus., 8 ref., August 2003.

58000943

Solanki, S. K. (Max Planck Institute for Aeronomy, Katlenburg-Lindau, Federal Republic of Germany) and Krivova, N. A.

Can solar variability explain global warming since 1970?: **Journal of Geophysical Research, A, Space Physics**, 108(5), 8 p., illus. incl. 2 tables, 53 ref., May 1, 2003.

58000944

Strack, Maria (McMaster University, School of Geography and Geology, Hamilton, ON, Canada) and Waddington, Mike.

Peatland greenhouse gas exchange response to climate change; an international experiment: **Peatlands International**, 2003(1), p. 20-22, illus., 2003.

58000945

Berman, Daniil Iosifovich.

Ideal'nyy prispособленets, ili Adaptivnaia strategiia Sibirskogo uglozuba [Perfect adapter, or adaptive strategy of Siberian salamander]: **Priroda**, 2002(10), p. 59-68, illus. incl. table, 11 ref., 2002.

58000946

Hirayama, Zenkichi (Nihon University, Department of Architecture, Tokyo, Japan) and Sano, Masashi.

Outline of the wireless hut built in 1957 and the old living hut built in 1969 at Syowa Station, Antarctica and the outside environment; preface: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 421-431, (Japanese) (English sum.), illus. incl. 5 tables, 3 ref., September 2002.

58000947

Hirayama, Zenkichi (Nihon University, Department of Architecture, Tokyo, Japan); Hannuki, Toshio; Tsubouchi, Nobuo and Takahashi, Hiromu.

Effect of aging and durability on constitution of panels used for the wireless hut built in 1957 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 432-445, (Japanese) (English sum.), illus. incl. 10 tables, 2 ref., September 2002.

58000948

Hannuki, Toshio (Nihon University, Department of Architecture, Tokyo, Japan); Hirayama, Zenkichi; Saito, Toshikazu; Tsubouchi, Nobuo and Takahashi, Hiromu.

Bending strength tests of a wooden wall panel used in the wireless hut built in 1957 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 446-455, (Japanese) (English sum.), illus. incl. 1 table, 3 ref., September 2002.

58000949

Hannuki, Toshio (Nihon University, Department of Architecture, Tokyo, Japan); Kishi, Akira; Hirayama, Zenkichi and Sano, Masashi.

Reconstruction and durability study of the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 456-472, (Japanese) (English sum.), illus. incl. 2 tables, 4 ref., September 2002.

58000950

Konishi, Toshimasa (Utsunomiya University, Department of Architecture and Civil Engineering, Utsunomiya, Japan); Nakamura, Shigeharu; Oshima, Ryuichi; Kudo, Taiki and Tanaka, Ryoji.

Durability study on material of wooden panel elements used for the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 473-480, (Japanese) (English sum.), illus. incl. 6 tables, 4 ref., September 2002.

58000951

Hirai, Takayuki (Nippon Bunri University, Department of Architectural Engineering, Ichiki, Japan); Hirayama, Zenkichi; Otani, Toshihiro and Matsuda, Tadahiro.

Remaining strength of wooden material of the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 481-489, (Japanese) (English sum.), 6 tables, 4 ref., September 2002.

58000952

**Hannuki, Toshio (Nihon University, Department of Architecture, Tokyo, Japan);
Takahashi, Hiroki; Ishinabe, Yuichiro; Sano, Masashi and Hirayama, Zenkichi.**

Bending strength tests of wooden panels of the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 490-503, (Japanese) (English sum.), illus. incl. 4 tables, 4 ref., September 2002.

58000953

Sekiguchi, Hirotugu (Misawa Homes Institute of Research and Development Company, Tokyo, Japan) and Tanaka, Kuniaki.

Effect of aging and adhesive durability on panel plywood of the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 504-511, (Japanese) (English sum.), 8 tables, 4 ref., September 2002.

58000954

Kondo, Teruo (Shimizu Corporation, Building Division, Tokyo, Japan) and Hirayama, Zenkichi.

Time change of steel and coating film applied to the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 512-517, (Japanese) (English sum.), 4 tables, September 2002.

58000955

Tanaka, Ryoji (Tokyo Institute of Technology, Structural Engineering Research Center, Yokohama, Japan); Shimizu, Ichirou and Suda, Yuko.

Durability of oil-based caulking compound and rubber gaskets applied in panel joints of the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 518-524, (Japanese) (English sum.), illus., September 2002.

58000956

Hirai, Takayuki (Nippon Bunri University, Department of Architectural Engineering, Oita, Japan); Naito, Masaaki; Ohi, Yoshinori; Otani, Toshihiro and Kurono, Kaoru.

Investigation of the concrete foundation of the old living hut built in 1969 at Syowa Station, Antarctica: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 525-532, (Japanese) (English sum.), illus. incl. 6 tables, 4 ref., September 2002.

58000957

Suzuki, Hiroaki (YAMATO PROTEC Corporation, Tokyo, Japan); Sato, Hiroshi and Mitsuhashi, Hiromi.

Full-scale fire experiment using the old living hut built in 1969 at Syowa Station, Antarctica and application of micro-fog fire extinguishing equipment: **Nankyoku Shiryo = Antarctic Record**, 46(2A), p. 533-541, (Japanese) (English sum.), illus. incl. 1 table, 4 ref., September 2002.

58000958

Liu, J. (University of Toronto, Toronto, ON, Canada); Chen, J. M. and Cihlar, J.

Mapping evapotranspiration based on remote sensing; an application to Canada's landmass: **Water Resources Research**, 39(7), 15 p., illus. incl. 4 tables, 83 ref., July 2003.

58000959

Rohrbough, Justin A. (University of Arizona, Department of Hydrology and Water Resources, Tucson, AZ); Davis, Donald R. and Bales, Roger C.

Spatial variability of snow chemistry in an alpine snowpack, southern Wyoming: **Water Resources Research**, 39(7), 12 p., illus. incl. 9 tables, 40 ref., July 2003.

58000960

Ye Baisheng (Chinese Academy of Sciences, Cold and Arid Regions Environmental and Engineering Research Institute, Lanzhou, China); Yang, Daqing and Kane, Douglas L.

Changes in Lena River streamflow hydrology; human impacts versus natural variations: **Water Resources Research**, 39(7), 14 p., illus. incl. 1 table, 38 ref., July 2003.

58000961

Hood, Eran (University of Colorado, Department of Geography and Institute of Arctic and Alpine Research, Boulder, CO); McKnight, Diane M. and Williams, Mark W.

Sources and chemical character of dissolved organic carbon across an alpine/subalpine ecotone, Green Lakes Valley, Colorado Front Range, United States: **Water Resources Research**, 39(7), 12 p., illus. incl. 3 tables, 55 ref., July 2003.

58000962

Miller, Norman L. (Berkeley National Laboratory, Berkeley, CA); Bashford, Kathy E. and Strem, Eric.

Potential impacts of climate change on California hydrology: **Journal of the American Water Resources Association**, 39(4), p. 771-784, illus. incl. 2 tables, 22 ref., August 2003.

58000963

Bradbury, John (Chemical Week Associates, Houston, TX).

Sakhalin shareout: **Hart's E&P**, 76(9), p. 13-14, illus. incl. sketch map, September 2003.

58000964

Kamiya, Eriko (University of Tokyo, Ocean Research Institute, Tokyo, Japan); Nayak, Binaya B. and Nishimura, Masahiko.

Studies of microbial population in the Pacific, sub-Antarctic and Antarctic oceans: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 22-28, illus. incl. 1 table, 4 ref., 2003.

58000965

Kudoh, Sakae (National Institute of Polar Research, Tokyo, Japan).

Photosynthetic activity in the surface water during Leg. 2 cruise of KH-01-3: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 29, illus., 2003.

58000966

Sasano, Daisuke (University of Tsukuba, Graduate School of Life and Environmental Science, Tsukuba, Japan) and Hama, Takeo.

Composition of photosynthetic products and sinking particles in the South Pacific and the Southern Ocean: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 30-31, illus. incl. 1 table, 2003.

58000967

Nishikawa, Jun (University of Tokyo, Ocean Research Institute, Tokyo, Japan); Hashizume, Kazuyoshi; Toczko, Sean; Johnson, Travis; Hasumoto, Hiroshi and Terazaki, Makoto.

Biological and ecological studies of meso-, macrozooplankton and micronekton in the South Pacific and the Southern oceans: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 34-37, 2003.

58000968

Takahashi, Kunio (Graduate University for Advanced Studies, Tokyo, Japan); Kudoh, Sakae; Fukuchi, Mitsuo and Odate, Tuneo.

Changes in lipid composition and metabolism of major copepods associated with diet and environmental conditions in the Indian sector of the Southern Ocean: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 38-39, illus. incl. 1 table, 2003.

58000969

Takahashi, Kunio (Graduate University for Advanced Studies, Department of Polar Science, Tokyo, Japan) and Kudoh, Sakae.

Continuous plankton recorder (CPR) survey: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 40-41, illus. incl. 1 table, 2003.

58000970

Kudoh, Sakae (National Institute of Polar Research, Tokyo, Japan); Ooi, Nobuaki and Iwadate, Yumi.

Surface drifter experiments at St. 13 (64°S, 140°E) and St. 16 (61°S, 140°E): *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 47-49, illus., 2003.

58000971

Kudoh, Sakae (National Institute of Polar Research, Tokyo, Japan); Odate, Tsuneo; Fukuchi, Mitsuo; Iwadate, Yumi; Suzuki, Hidekatsu and Sasaki, Hiroshi.

Mooring experiment at St. 13 (64°S, 140°E) in the Antarctic Ocean: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 50, 2003.

58000972

Sasaki, Hiroshi (Ishinomaki Senshu University, Japan) and Iwadate, Yumi.

Export of particulate organic matter in the epipelagic and mesopelagic layers in the seasonally ice-covered zone (SIZ) of the Southern Ocean: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 51-52, illus. incl. 2 tables, 2003.

58000973

Ishii, Masao (Meteorological Research Institute, Japan).

Atmospheric and oceanic CO₂ observations: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 79-87, illus. incl. 1 table, 10 ref., 2003.

58000974

Ikehara, Minoru (Kochi University, Marine Core Research Center, Kochi, Japan).

Late Quaternary paleoceanographic changes in the polar front zone in the Southern Ocean: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 99-104, illus. incl. 1 table, sketch map, 13 ref., 2003.

58000975

Hasumoto, H. and Miura, T.

Oceanographic data: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 131-170, illus. incl. tables, 2003.

58000976

Watanabe, Shigeki (University of Tokyo, Graduate School of Agriculture and Life Sciences, Tokyo, Japan); Miki, Meguru; Takeda, Shigenobu and Furuya, Ken.

Phytoplankton population dynamics and primary productivity in the South Pacific and the Southern Ocean: *in* Preliminary report of the Hakuho Maru cruise KH-01-3 (southern Pacific and Southern Ocean); November 27, 2001-March 1, 2002; studies on the biological production and biogeochemical cycles in the central southern Pacific and Southern Ocean and geophysical study of Australia-Antarctic Ridge (Terazaki, Makoto, editor; *et al.*), University of Tokyo, Ocean Research Institute, Tokyo, Japan, p. 24-28, illus. incl. 1 table, 4 ref., 2003.

58000977

Day, Warren C. (U. S. Geological Survey); Aleinikoff, John N.; Roberts, Paul; Smith, Moira; Gamble, Bruce M.; Henning, Mitchell W.; Gough, Larry P. and Morath, Laurie C.
Geologic map of the Big Delta B-2 Quadrangle, East-Central Alaska: **Geologic Investigations Series - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. I-2788, 1 sheet, illus. incl. 1 table; colored geologic map, 1:63,360, 17 ref., 2003. *Available from:* U. S. Geol. Surv., Denver, CO, United States. (Prepared in cooperation with the Alaska Department of Natural Resources and Teck Cominco Limited).

58000978

Persits, Feliks M. (U. S. Geological Survey) and Ulmishek, Gregory F.

Maps showing geology, oil and gas fields, and geologic provinces of the Arctic: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 97-0470-J, 1 disc, 2003. compact disc *Available from:* U. S. Geol. Surv., Denver, CO, United States.

58000979

Snape, Ian, editor (Australian Antarctic Division, Kingston, Tasmania, Australia).

Papers from the third international conference on Contaminants in freezing ground: **Cold Regions Science and Technology**, 37(2), p. 88-212, September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia. Individual papers are cited separately.

58000980

Walworth, J. L. (University of Arizona, Department of Soil Water and Environmental Science, Tucson, AZ); Woolard, C. R. and Harris, K. C.

Nutrient amendments for contaminated peri-glacial soils; use of cod bone meal as a controlled release nutrient source: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 81-88, illus. incl. 3 tables, 20 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000981

Chuvilin, E. M. (Moscow State University, Department of Geocryology, Moscow, Russian Federation) and Miklyaeva, E. S.

An experimental investigation of the influence of salinity and cryogenic structure on the dispersion of oil and oil products in frozen soils: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 89-95, illus. incl. 6 tables, 18 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000982

Rike, Anne Gunn (Norwegian Geotechnical Institute, Department of Environmental Technology, Oslo, Norway); Haugen, Kjetil Braathen; Borresen, Marion; Engene, Bjarne and Kolstad, Per.

In situ biodegradation of petroleum hydrocarbons in frozen arctic soils: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 97-120, illus. incl. 3 tables, sketch map, 36 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000983

Filler, Dennis M. (NORTECH Environmental and Engineering, Fairbanks, AK) and Barnes, David L.

Technical procedures for recovery and evaluation of chemical spills on tundra: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 121-135, illus. incl. 6 tables, sketch map, 31 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000984

Borresen, Marion (Norwegian Geotechnical Institute, Oslo, Norway); Breedveld, Gijsbert D. and Rike, Anne G.

Assessment of the biodegradation potential of hydrocarbons in contaminated soil from a permafrost site: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 137-149, illus. incl. 2 tables, 31 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000985

Gay, Guillaume (Laboratoire des Matériaux et des Structures du Génie Civil, Champs-sur-Marne, France) and Azouni, M. Aza.

Experimental study of the redistribution of heavy metals contaminants in coarse-grained soils by unidirectional freezing: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 151-157, illus. incl. 1 table, 40 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000986

Woinarski, A. Z. (University of Melbourne, Department of Chemical Engineering, Melbourne, Victoria, Australia); Snape, I.; Stevens, G. W. and Stark, S. C.

The effects of cold temperature on copper ion exchange by natural zeolite for use in a permeable reactive barrier in Antarctica: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 159-168, illus. incl. 3 tables, 35 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000987

Northcott, Kathy A. (University of Melbourne, Department of Chemical Engineering, Parkville, Victoria, Australia); Snape, Ian; Connor, Michael A. and Stevens, Geoffrey W.

Water treatment design for site remediation at Casey Station, Antarctica; site characterisation and particle separation: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 169-185, illus. incl. 6 tables, 21 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000988

Pettersson, Jared K. (University of Canterbury, Department of Geological Sciences, Christchurch, New Zealand) and Nobes, David C.

Environmental geophysics at Scott Base; ground penetrating radar and electromagnetic induction as tools for mapping contaminated ground at Antarctic research bases: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 187-195, illus. incl. sect., sketch map, 19 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000989

Ferguson, Susan H. (University of Tasmania, Kingston, Tasmania, Australia); Franzmann, Peter D.; Revill, Andrew T.; Snape, Ian and Rayner, John L.

The effects of nitrogen and water on mineralisation of hydrocarbons in diesel-contaminated terrestrial Antarctic soils: *in* Papers from the third international conference on Contaminants in freezing ground (Snape, Ian, editor), **Cold Regions Science and Technology**, 37(2), p. 197-212, illus. incl. 4 tables, 43 ref., September 2003. *Meeting:* Apr. 14-18, 2002, Hobart, Tasmania, Australia.

58000990

Baluk, A., editor (Panstw. Inst. Geol., Warsaw, Poland).

Czwartorzęd dorzezca dolnej narwi (polnocno-wschodnie Mazowsze) [Quaternary of the lower Narew River basin, northeastern Mazovia]: **Prace Panstwowego Instytutu Geologicznego (1988)**, 129, 73 p. (Russian, English sum.), illus. incl. 1 table, strat. cols., geol. sketch maps, 1990. Individual paper within scope is cited separately.

58000991

Gerdol, R. (Univ. Padova, Fac. Agric. Sci., Padua, Spain) and Smiraglia, C.

Correlation between vegetation pattern and micromorphology in periglacial areas of the Central Alps: **Pirineos**, 135, p. 13-27 (Spanish, French sum.), illus. incl. 3 tables, 20 ref., 1990.

58000992

Raczkowska, Z.

Observations on nivation and its geomorphological effects in mountains at high latitude, with Mt. Njulla Massif in northern Sweden as example: **Pirineos**, 136, p. 19-32 (Spanish, French sum.), illus. incl. 2 tables, geol. sketch maps, 24 ref., 1990.

58000993

Tomaselli, M. (Univ. Bologna, Dep. Evolution Biol., Bologna, Italy) and Agostini, N.

Vegetation patterns and dynamics on a rock glacier in the Northern Apennines: **Pirineos**, 136, p. 33-45 (Spanish, French sum.), illus. incl. 2 tables, 28 ref., 1990.

58000994

Coates, G. (Paterson & Coates, Christchurch, New Zealand) and Chinn, T. J.

The Franz Josef and Fox glaciers: **Institute of Geological & Nuclear Sciences Information Series**, Rep. No. 2, 6 p., 1992. Brochure; second edition.

58000995

Bourgeois, Olivier.

Processus d'extension lithosphérique en Islande; interactions avec les calottes glaciaires Quaternaires [Lithospheric extension processes in Iceland; their interaction with Quaternary ice caps]: **Mémoires de Géosciences Rennes**, 96, 279 p., illus. incl. sects., strat. col., geol. sketch maps, Doctoral, 2000, Université de Rennes I, Rennes, France. ISBN: 2-905532-95-5.

58000996

Lebourg, T. (Université de Bordeaux I, Talence, France); Frappa, M. and Sirieux, C.

Reconnaissance des surfaces de rupture dans les formations superficielles instables par mesures electriques [Electrical survey of rupture surfaces in unstable surficial formations]: *in* 2e colloque de géophysique des sols et des formations superficielles "GEOF CAN", **PANGEA**, 31-32, p. 69-72 (English sum.), sects., geol. sketch map, 5 ref., 1999. *Meeting:* Sept. 21-22, 1999, Orleans, France.

58001014

Fukunishi, Hiroshi and Akasofu, Syun-Ichi, editors.

International workshop on Global change; connection to the Arctic: **Tohoku Geophysical Journal**, 36(2), p. 39-298, illus., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan. Individual papers or abstracts are cited separately.

58001015

Yasunaka, Sayaka (Tohoku University, Department of Geophysics, Sendai, Japan) and Hanawa, Kimio.

Arctic Oscillation and corresponding sea surface temperature anomaly fields: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 47-63, illus. incl. sketch map, 32 ref., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001016

Taguchi, Masakazu (Kyoto University, Department of Geophysics, Kyoto, Japan) and Yoden, Shigeo.

A numerical experiment on annular mode with a simple global circulation model: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 65-76, illus., 13 ref., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001017

Sawamoto, Takuji (Hokkaido University, Graduate School of Agriculture, Sapporo, Japan); Hatano, Ryusuke; Shibuya, Masato; Takahashi, Kunihide; Isaev, A. P. and Desyatkin, R. M.

CO₂, N₂O, CH₄ fluxes from soil in Siberian-taiga larch forests with different histories of forest fire: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 77-89, illus. incl. 1 table, 36 ref., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001018

Sharkhuu, Natsagdorj (Mongolian Academy of Sciences, Institute of Geography, Ulan Bator, Mongolia).

Dynamics of permafrost in Mongolia: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 91-99, illus. incl. sketch map, 5 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001019

Harada, Koichiro (Miyagi Agricultural College, Sendai, Japan); Wada, Kazushige and Fukuda, Masami.

Permafrost structure in Siberia by transient electromagnetic method: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 101-109, illus. incl. 1 table, sketch map, 12 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001020

Akasofu, Syun-Ichi (University of Alaska Fairbanks, International Arctic Research Center, Fairbanks, AS).

Global change in the Arctic; recent studies: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 151-155, 57 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001021

Tanaka, Hiroshi L. (University of Tsukuba, IARC/FRSGC, Tsukuba, Japan) and Tokinaga, Hiroki.

A study of Arctic Oscillation induced by a positive feedback between the polar vortex and baroclinic instability: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 159-163, illus., 4 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001022

Kimoto, Masahide (University of Tokyo, Center for Climate System Research, Tokyo, Japan); Jin, Fei-Fei; Watanabe, Masahiro and Yasutomi, Natsuko.

Zonal-eddy coupling and a neutral mode theory for the Arctic Oscillation: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 164-170, illus., 24 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001023

Honda, Meiji (Frontier Research System for Global Change, IGCR, Yokohama, Japan); Nakamura, Hisashi and Ukita, Jinro.

Seasonal dependence and life cycle of the interannual seesaw between the Aleutian and Icelandic lows: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 171-176, illus., 9 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001024

Nakamura, Hisashi (Frontier Research System for Global Change, IGCR, Yokohama, Japan) and Honda, Meiji.

Aleutian-Icelandic low seesaw and its relationship with the Arctic Oscillation: *in International workshop on Global change; connection to the Arctic* (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 177-180, illus., 8 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001025

Ikeda, Motoyoshi (Hokkaido University, Graduate School of Environmental Earth Science, Sapporo, Japan).

Arctic climate change studied at the International Arctic Research Center: *in International workshop on Global change; connection to the Arctic* (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 181-187, illus., 21 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001026

Kodera, Kunihiko (Meteorological Research Institute, Ibaraki, Japan) and Kuroda, Yuhji.

Warming of Eurasian and its relationship with the NAO, AO, PJO, and EU-pattern: *in International workshop on Global change; connection to the Arctic* (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 188-191, illus., 11 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001027

Hori, Masatake E. (University of Tsukuba, Institute of Geoscience, Ibaragi, Japan) and Yasunari, Tetsuzo.

Comparison between the influence of AO and the NAO towards the Northern Hemisphere flow pattern and the surface condition of the Eurasian continent: *in International workshop on Global change; connection to the Arctic* (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 192, September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001028

Shindell, Drew (NASA, Goddard Institute for Space Studies, New York, NY); Schmidt, G. A.; Miller, R. L. and Rind, D.

Northern Hemisphere winter climate responses to greenhouse gas, ozone, solar and volcanic forcing [abstr.]: *in International workshop on Global change; connection to the Arctic* (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 193, September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001029

Yamazaki, Koji (Hokkaido University, Graduate School of Environmental Earth Science, Sapporo, Japan).

The Arctic Oscillation and Polar night Jet Oscillation seen in a perpetual February simulation: *in International workshop on Global change; connection to the Arctic* (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 194-195, 5 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001030

Kuroda, Yuhji (Meteorological Research Institute, Climate Research Department, Tsukuba, Japan) and Kodera, Kunihiko.

The characteristics of the Polar-night Jet Oscillation and its relationship with the Arctic Oscillation: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 196-199, illus., 4 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001031

Mukougawa, Hitoshi (Hokkaido University, Graduate School of Environmental Earth Science, Sapporo, Japan) and Abe, Mutsumi.

Multiple zonal flow regimes in a two-layer model [abstr.]: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 200-206, illus., 6 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001032

Mimura, Kazuo (Tokai University, Department of Resources and Environment Science, Kanagawa, Japan).

Polar vortex reversal experiment in a rotating shallow water: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 207-212, illus., 1 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001033

Iwasaki, Toshiki (Tohoku University, Geophysical Institute, Sendai, Japan).

Diagnostic tool of the zonally symmetric structure of the global atmosphere based on the pressure-isentrope hybrid vertical coordinates: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 213-218, illus., 6 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001034

Tsuchiya, Fujio (Obihiro University of Agriculture and Veterinary Medicine, Hokkaido, Japan); Fukuda, Masami; Tumbaatar, D.; Sharakuu, N.; Baatar, R. and Muneoka, T.

Forest fire impacts to Mongolian permafrost: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 219-223, illus. incl. 1 table, sketch map, 3 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001035

Romanovsky, Vladimir E. (University of Alaska Fairbanks, Geophysical Institute, Fairbanks, AK); Osterkamp, T. E.; Sazonova, T. S.; Shender, N. I. and Balobaev, V. T.

Permafrost temperature dynamics along the East Siberian Transect and an Alaskan Transect: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 224-229, illus. incl. sketch map, 5 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001036

Hinzman, Larry (University of Alaska Fairbanks, Water and Environmental Research Center, Fairbanks, AK); Yoshikawa, Kenji; Fukuda, Masami; Romanovsky, Vladimir E.; Petrone, Kevin and Bolton, William.

Wildfire in the subarctic boreal forests, ecosystem impacts and response to a warming climate: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 230-232, illus., 1 ref., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001037

Hatsushika, Hiroaki (Hokkaido University, Graduate School of Environmental Earth Sciences, Hokkaido, Japan); Yamazaki, Koji and Yong-Won, Kim.

Long-range transport of gaseous and particulate materials by forest fire: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 233-237, illus., 4 ref., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001038

Hayasaka, Hiroshi (Hokkaido University, Graduate School of Engineering, Sapporo, Japan).

Forest fires in boreal forest; frostfire in Alaska taiga: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 238-239, 2 ref., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001039

Yang, Daqing (University of Alaska Fairbanks, Water and Environmental Research Center, Fairbanks, AK) and Ohata, Tetsuo.

Lena River ice regime and its recent change [abstr.]: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 240, September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001040

Brekke, Asgeir (University of Tromso, Department of Physics, Tromso, Norway).

Studies of auroral E-region dynamics [abstr.]: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 241, September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001041

Fujiwara, Hitoshi (Tohoku University, Department of Geophysics, Sendai, Japan).

Global change of the thermosphere caused by high-latitude energy inputs: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 242-244, illus. incl. 1 table, 6 ref., September 2001. *Meeting:* Aug. 23-25, 2000, Sendai, Japan.

58001042

Murayama, Yasuhiro (Communications Research Laboratory, Tokyo, Japan); Ishii, M.; Kubota, M.; Ochiai, S.; Kasai, Y.; Mizutani, K.; Igarashi, K.; Kikuchi, T.; Mori, H.; Masuko, H.; Smith, R. W.; Conde, M.; Collins, R.; Watkins, B.; Stenbaek-Nielsen, H.; Hallinan, T.; Akasofu, Syun-Ichi and Shaw, J.

International cooperative project of the Arctic middle and upper atmosphere observation in Alaska [abstr.]: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 245, September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001043

Ishii, M. (Ministry of Posts and Telecommunications, Communications Research Laboratory, Tokyo, Japan); Conde, M.; Smith, R. W.; Krynicki, M.; Sagawa, E. and Watari, S.

Comparison between vertical wind in the lower thermosphere and magnetic field perturbation on the ground [abstr.]: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 246-247, 6 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001044

Aso, Takehiko (National Institute of Polar Research, Tokyo, Japan).

An overview on the study of large-scale atmospheric waves in the Arctic mesosphere and thermosphere by the EISCAT and associated observations: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 248-249, illus. incl. sketch map, September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001045

Sato, Kaoru (National Institute of Polar Research, Tokyo, Japan).

Sources of gravity waves in the polar middle atmosphere [abstr.]: *in* International workshop on Global change; connection to the Arctic (Fukunishi, Hiroshi, editor; *et al.*), **Tohoku Geophysical Journal**, 36(2), p. 250, 1 ref., September 2001. *Meeting*: Aug. 23-25, 2000, Sendai, Japan.

58001046

McCuaig, S. J. (Newfoundland Geological Survey, Saint John's, NF, Canada).

Quaternary geology and till geochemistry of the Alexis River area and Blanc-Sablon-Mary's Harbour Road corridor, southern Labrador: **Report of Activities - Newfoundland. Geological Survey Branch**, Rep. No. 2001, p. 34-35, sketch map, 2 ref., 2001. Available from: Newfoundland Geological Survey, Geoscience Publications and Information Section, St. John's, NF, Canada.

58001047

Taylor, D. (Newfoundland Geological Survey, Saint John's, NF, Canada); Batterson, M. and Liverman, D. J.

Deglaciation of Newfoundland as revealed by ice-flow mapping: **Report of Activities - Newfoundland. Geological Survey Branch**, Rep. No. 2001, p. 37, 2001. Available from: Newfoundland Geological Survey, Geoscience Publications and Information Section, St. John's, NF, Canada.

58001048

Bobrowsky, Peter T. (British Columbia Geological Survey, Victoria, BC, Canada); Cathro, Mike and Paulen, Roger.

Quaternary geology reconnaissance studies 91I/2 and 7: *in* Geological fieldwork 2001; a summary of field activities and research (British Columbia Ministry of Energy and Mines), **Geological Fieldwork**, Rep. No. 2002-1, p. 397-401, illus. incl. 1 table, geol. sketch maps, 23 ref., January 2002.

58001049

Elders, Wilfred A. (University of California at Riverside, Institute for Geophysics & Planetary Physics, Riverside, CA); Fridleifsson, Gudmundur O. and Saito, Seiji.

The Iceland Deep Drilling Project; a search for supercritical fluid: *in* Geothermal energy for the Americas; Geothermal Resources Council 2001 annual meeting (Garg, Sabodh K., chairperson; *et al.*), **Transactions - Geothermal Resources Council**, 25, p. 297-300, illus. incl. 1 table, sketch map, 10 ref., 2001. *Meeting*: Aug. 26-29, 2001, San Diego, CA.

58001050

Gudmundsson, Asgrimur (Orkustofmun, Geoscience Division, Reykjavik, Iceland).

An expansion of the Krafla power plant from 30 to 60 MW_e; geothermal considerations: *in* Geothermal energy for the Americas; Geothermal Resources Council 2001 annual meeting (Garg, Sabodh K., chairperson; *et al.*), **Transactions - Geothermal Resources Council**, 25, p. 741-746, illus. incl. 1 table, 11 ref., 2001. *Meeting*: Aug. 26-29, 2001, San Diego, CA.

58001051

Leliwa-Kopystynski, J. (Warsaw University, Institute of Geophysics, Warsaw, Poland) and Kossacki, K. J., editors.

Cratering of icy surfaces; proceedings: **Advances in Space Research**, 28(10), p. 1517-1569, 2001. *Meeting*: Thirty-third Cospar scientific assembly, BO.7 symposium of COSPAR Scientific Commission B, July 16-23, 2000, Warsaw, Poland. Individual papers are cited separately.

58001052

Burchell, M. J. (University of Kent at Canterbury, Unit for Space Sciences and Astrophysics, Kent, United Kingdom); Grey, I. D. S. and Shrine, N. R. G.

Laboratory investigations of hypervelocity impact cratering in ice: *in* Cratering of icy surfaces; proceedings (Leliwa-Kopystynski, J., editor; *et al.*), **Advances in Space Research**, 28(10), p. 1521-1526, illus., 11 ref., 2001. *Meeting*: Thirty-third Cospar scientific assembly, BO.7 symposium of COSPAR Scientific Commission B, July 16-23, 2000, Warsaw, Poland.

58001053

Grey, I. D. S. (University of Kent at Canterbury, Unit for Space Sciences and Astrophysics, Kent, United Kingdom); Burchell, M. J. and Shrine, N. R. G.

Laboratory investigations of the temperature dependence of hypervelocity impact cratering in ice: *in* Cratering of icy surfaces; proceedings (Leliwa-Kopystynski, J., editor; *et al.*), **Advances in Space Research**, 28(10), p. 1527-1532, illus. incl. 1 table, 10 ref., 2001. *Meeting*: Thirty-third Cospar scientific assembly, BO.7 symposium of COSPAR Scientific Commission B, July 16-23, 2000, Warsaw, Poland.

58001054

Koschny, D. (European Space Agency, Space Science Department, Noordwijk, Netherlands); Kargl, G. and Rott, M.

Experimental studies of the cratering process in porous ice targets: *in* Cratering of icy surfaces; proceedings (Leliwa-Kopystynski, J., editor; *et al.*), **Advances in Space Research**, 28(10), p. 1533-1537, illus. incl. 1 table, 21 ref., 2001. *Meeting:* Thirty-third Cospar scientific assembly, BO.7 symposium of COSPAR Scientific Commission B, July 16-23, 2000, Warsaw, Poland.

58001055

Kömle, N. I. (Osterreichische Akademie der Wissenschaften, Institut für Weltraumforschung, Graz, Austria); Kargl, G. and Ball, A. J.

Determination of physical properties of planetary sub-surface layers by artificial impacts and penetrometry: *in* Cratering of icy surfaces; proceedings (Leliwa-Kopystynski, J., editor; *et al.*), **Advances in Space Research**, 28(10), p. 1539-1549, illus. incl. 1 table, 47 ref., 2001. *Meeting:* Thirty-third Cospar scientific assembly, BO.7 symposium of COSPAR Scientific Commission B, July 16-23, 2000, Warsaw, Poland.

58001056

McDonnell, J. A. M. (Open University, Milton Keynes, United Kingdom); Catling, D. J. and Clegg, R. A.

Impact comminution of icy targets in the outer solar system; application of hydrocodes: *in* Cratering of icy surfaces; proceedings (Leliwa-Kopystynski, J., editor; *et al.*), **Advances in Space Research**, 28(10), p. 1551-1562, illus. incl. 1 table, sketch map, 15 ref., 2001. *Meeting:* Thirty-third Cospar scientific assembly, BO.7 symposium of COSPAR Scientific Commission B, July 16-23, 2000, Warsaw, Poland.

58001057

Orosei, R. (Consiglio Nazionale delle Ricerche, Istituto di Astrofisica Spaziale, Rome, Italy); Coradini, A.; De Sanctis, M. C. and Federico, C.

Collision-induced thermal evolution of a comet nucleus in the Edgeworth-Kuiper Belt: *in* Cratering of icy surfaces; proceedings (Leliwa-Kopystynski, J., editor; *et al.*), **Advances in Space Research**, 28(10), p. 1563-1569, illus. incl. 1 table, 18 ref., 2001. *Meeting:* Thirty-third Cospar scientific assembly, BO.7 symposium of COSPAR Scientific Commission B, July 16-23, 2000, Warsaw, Poland.

58001058

Waitt, R. B. (U. S. Geological Survey, Vancouver, WA).

Great Holocene floods along Jokulsa a Fjollum, North Iceland: *in* Flood and megaflood processes and deposits; recent and ancient examples (Martini, I. Peter, editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 32, p. 37-63, illus. incl. strat. col., sketch maps, 58 ref., 2002. *Meeting:* IAS 15th international sedimentological congress, 1998, Spain.

58001059

Snorrason, A. (National Energy Authority, Hydrological Service, Reykjavik, Iceland); Jonsson, P.; Sigurdsson, O.; Palsson, S.; Arnason, S.; Vikingsson, S. and Kaldal, I.

November 1996 jokulhlaup on Skeidararsandur outwash plain, Iceland: *in* Flood and megaflood processes and deposits; recent and ancient examples (Martini, I. Peter, editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 32, p. 55-65, illus. incl. 1 table, sketch maps, 9 ref., 2002. *Meeting:* IAS 15th international sedimentological congress, 1998, Spain.

58001060

Russell, A. J. (Keele University, School of Earth Sciences and Geography, Keele, United Kingdom) and Knudsen, O.

The effects of glacier-outburst flood flow dynamics on ice-contact deposits; November 1996 jokulhlaup, Skeidararsandur, Iceland: *in* Flood and megaflood processes and deposits; recent and ancient examples (Martini, I. Peter, editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 32, p. 67-83, illus. incl. 1 table, geol. sketch map, 46 ref., 2002. *Meeting*: IAS 15th international sedimentological congress, 1998, Spain.

58001061

Fay, H. (Keele University, Earth Surface Processes Research Group, Keele, United Kingdom).

Formation of ice-block obstacle marks during the November 1996 glacier-outburst flood (jokulhlaup), Skeidararsandur, southern Iceland: *in* Flood and megaflood processes and deposits; recent and ancient examples (Martini, I. Peter, editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 32, p. 85-97, illus. incl. 1 table, geol. sketch map, 68 ref., 2002. *Meeting*: IAS 15th international sedimentological congress, 1998, Spain.

58001062

Blair, T. C. (Blair and Associates, Boulder, CO).

Alluvial-fan sedimentation from a glacial-outburst flood, Lone Pine, California, and contrasts with meteorological flood deposits: *in* Flood and megaflood processes and deposits; recent and ancient examples (Martini, I. Peter, editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 32, p. 113-140, illus. incl. 2 tables, geol. sketch maps, 57 ref., 2002. *Meeting*: IAS 15th international sedimentological congress, 1998, Spain.

58001063

Herget, J. (Ruhr-University Bochum, Institute of Geography, Bochum, Federal Republic of Germany).

Sedimentary traces as indicator of temporary ice-marginal channels in the Westphalian Bight, Germany: *in* Flood and megaflood processes and deposits; recent and ancient examples (Martini, I. Peter, editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 32, p. 283-290, illus. incl. geol. sketch map, 32 ref., 2002. *Meeting*: IAS 15th international sedimentological congress, 1998, Spain.

58001064

Kuhle, M. (University of Goettingen, Geographical Institute, Geography and High Mountain Geomorphology, Gottingen, Federal Republic of Germany).

Outlet glaciers of the Pleistocene (LGM) South Tibetan ice sheet between Cho Oyu and Shisha Pangma as potential sources of former megafloods: *in* Flood and megaflood processes and deposits; recent and ancient examples (Martini, I. Peter, editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 32, p. 291-302, illus. incl. sketch maps, 12 ref., 2002. *Meeting*: IAS 15th international sedimentological congress, 1998, Spain.

58001065

Springman, Sarah M. and Teyssiere, Philipp.

Artificially induced rainfall instabilities on moraine slopes: *in* International conference on Landslides; causes, impacts and countermeasures (Kühne, M., editor; *et al.*), Verl. Glückauf, Essen, Federal Republic of Germany, p. 209-223, illus. incl. 5 tables, 11 ref., 2001. *Meeting*: June 17-21, 2001, Davos, Switzerland.

58001066

Popovnin, Victor V. (Moscow State University, Geographical Faculty, Moscow, Russian Federation) and Rozova, Anastassia V.

Influence of sub-debris thawing on ablation and runoff of the Djankuat Glacier in the Caucasus: *in EGS general assembly 2000; symposium on Water balance components of high mountain basins* (Braun, Ludwig N., editor; *et al.*), **Nordic Hydrology**, 33(1), p. 75-94, 2 tables, 13 ref., 2002. *Meeting:* April 24, 2000, Nice, France.

58001067

Schuler, Thomas (ETH, VAW-Glaciology, Zurich, Switzerland); Fischer, Urs H.; Sterr, Regina; Hock, Regine and Gudmundsson, G. Hilmar.

Comparison of modeled water input and measured discharge prior to a release event; *Unteraargletscher, Bernese Alps, Switzerland: in EGS general assembly 2000; symposium on Water balance components of high mountain basins* (Braun, Ludwig N., editor; *et al.*), **Nordic Hydrology**, 33(1), p. 27-46, 2002. *Meeting:* April 24, 2000, Nice, France.

58001068

Strasser, Ulrich (ETH, Zurich, Switzerland); Etchevers, P. and Lejeune, Y.

Inter-comparison of two snow models with different complexity using data from an alpine site: *in EGS general assembly 2000; symposium on Water balance components of high mountain basins* (Braun, Ludwig N., editor; *et al.*), **Nordic Hydrology**, 33(1), p. 15-26, 2002. *Meeting:* April 24, 2000, Nice, France.

58001069

Pazos, Pablo José (Universidad de Buenos Aires, Departamento de Ciencias Geológicas, Buenos Aires, Argentina).

Palaeoenvironmental framework of the glacial-postglacial transition (late Paleozoic) in the Paganzo-Calingasta Basin (southern South America) and the Great Karoo-Kalahari Basin (Southern Africa); ichnological implications: **Gondwana Research**, 5(3), p. 619-640, illus. incl. 3 plates, 2 tables, geol. sketch maps, 121 ref., July 2002.

58001070

Hoffman, Paul F. (Harvard University, Department of Earth and Planetary Sciences, Cambridge, MA) and Schrag, Daniel P.

The snowball Earth hypothesis; testing the limits of global change: **Terra Nova**, 14(3), p. 129-155, illus. incl. 3 plates, 1 table, sect., strat. cols., sketch maps, 270 ref., June 2002.

58001071

Krupa, Sagar V. (University of Minnesota, Department of Plant Pathology, Saint Paul, MN).

Sampling and physico-chemical analysis of precipitation; a review: **Environmental Pollution (1987)**, 120(3), p. 565-594, illus. incl. 15 tables, 129 ref., 2002.

58001072

Virtanen, Tarmo (Finnish Forest Research Institute, Rovaniemi Research Station, Rovaniemi, Finland); Mikkola, Kari; Patova, Elena and Nikula, Ari.

Satellite image analysis of human caused changes in the tundra vegetation around the city of Vorkuta, North-European Russia: **Environmental Pollution (1987)**, 120(3), p. 647-658, illus. incl. sketch maps, 45 ref., 2002.

58001073

Kumar, Praveen (University of Illinois, Environmental Hydrology and Hydraulic Engineering, Urbana, IL) and Kaleita, Amy L.

Assimilation of near-surface temperature using extended Kalman filter: **Advances in Water Resources**, 26(1), p. 79-93, illus. incl. 1 table, 16 ref., January 2003.

58001074

Sulsbruck Moller, Henrik; Christiansen, Christian; Nielsen, Niels and Rasch, Morten.

Investigation of a modern glacimarine sedimentary environment in the fjord Kuannersuit Sulluat, Disko, West Greenland: **Geografisk Tidsskrift**, 101, p. 1-10, illus. incl. 3 tables, 26 ref., 2001.

58001075

Boulton, G.; Gustafson, G.; Schelkes, K.; Casanova, J. and Moren, L.

Palaeohydrogeology and geoforecasting for performance assessment in geosphere repositories for radioactive waste disposal (Pagepa); final report: **EUR (Luxembourg)**, 19784, 156 p., illus. incl. tables, sect., geol. sketch maps, 2001. ISBN: 92-894-1238-0.

58001076

Tzedakis, Chronis (University of Leeds, School of Geography, Leeds, United Kingdom).

Timing and duration of last interglacial conditions in Europe; a chronicle of a changing chronology: **Quaternary Science Reviews**, 22(8-9), p. 763-768, illus., 34 ref., April 2003.

58001077

d'Errico, Francesco (Université de Bordeaux I, Institut de Préhistoire et de Géologie du Quaternaire, Talence, France) and Sánchez Goñi, María Fernanda.

Neandertal extinction and the millennial scale climatic variability of OIS 3: **Quaternary Science Reviews**, 22(8-9), p. 769-788, illus. incl. sketch map, 147 ref., April 2003.

58001078

Rasmussen, Tine L. (University Courses on Svalbard (UNIS), Longyearbyen, Norway); Thomsen, Erik; Kuijpers, Antoon and Wastegard, Stefan.

Late warming and early cooling of the sea surface in the Nordic seas during MIS 5e (Eemian interglacial): **Quaternary Science Reviews**, 22(8-9), p. 809-821, illus. incl. 1 table, sketch maps, 73 ref., April 2003.

58001079

Guilbault, Jean-Pierre (BRAQ-Stratigraphie, Montréal, PQ, Canada); Barrie, J. Vaughn; Conway, Kim; Lapointe, Martine and Radi, Taoufik.

Paleoenvironments of the Strait of Georgia, British Columbia during the last deglaciation; microfaunal and microfloral evidence: **Quaternary Science Reviews**, 22(8-9), p. 839-857, illus. incl. 5 tables, sketch map, 51 ref., April 2003. *Foraminifera, Pleistocene, diatoms, palynomorphs*

58001080

Benson, Larry (United States Geological Survey, Boulder, CO); Barber, Don; Andrews, John T.; Taylor, Howard and Lamothe, Paul.

Rare-earth elements and Nd and Pb isotopes as source indicators for Labrador Sea clay-size sediments during Heinrich event 2: **Quaternary Science Reviews**, 22(8-9), p. 881-889, illus. incl. 4 tables, geol. sketch map, 39 ref., April 2003.

58001081

Kaufman, Darrell S. (Northern Arizona University, Departments of Geology and Environmental Sciences, Flagstaff, AZ).

Amino acid paleothermometry of Quaternary ostracodes from the Bonneville Basin, Utah: **Quaternary Science Reviews**, 22(8-9), p. 899-914, illus. incl. 4 tables, sketch map, 62 ref., April 2003.

58001082

Bennett, Matthew R. (University of Bournemouth, School of Conservation Sciences, Dorset, United Kingdom); Waller, Richard I.; Midgley, Nicholas G.; Huddart, David; Gonzalez, Silvia; Cook, Simon J. and Tomio, Alexandre.

Subglacial deformation at sub-freezing temperatures? Evidence from Hagafellsjokull-Eystri, Iceland: **Quaternary Science Reviews**, 22(8-9), p. 915-923, illus. incl. sects., geol. sketch map, 40 ref., April 2003.

58001083

Singh, Pratap (National Institute of Hydrology, Roorkee, India) and Jain, S. K.

Modelling of streamflow and its components for a large Himalayan basin with predominant snowmelt yields: **Hydrological Sciences Journal = Journal des Sciences Hydrologiques**, 48(2), p. 257-276, illus. incl. 4 tables, sketch map, 21 ref., April 2003.

58001084

Isbell, John L. (University of Wisconsin, Department of Geosciences, Milwaukee, WI); Miller, Molly F.; Wolfe, Keri L. and Lenaker, Paul A.

Timing of late Paleozoic glaciation in Gondwana; was glaciation responsible for the development of Northern Hemisphere cycloths?: *in* Extreme depositional environments; mega end members in geologic time (Chan, Marjorie A., editor; *et al.*), **Special Paper - Geological Society of America**, 370, p. 5-24, illus. incl. strat. col., 5 tables, sketch map, 191 ref., 2003. Includes appendix.

58001085

Shaw, John (University of Alberta, Department of Earth and Atmospheric Sciences, Edmonton, AB, Canada) and Lesemann, Jerome-Etienne.

Subglacial outburst floods and extreme sedimentary events in the Labrador Sea: *in* Extreme depositional environments; mega end members in geologic time (Chan, Marjorie A., editor; *et al.*), **Special Paper - Geological Society of America**, 370, p. 25-41, illus. incl. sects., sketch maps, 82 ref., 2003.

58001086

Muhs, Daniel R. (U. S. Geological Survey, Denver, CO) and Bettis, E. Arthur, III.

Quaternary loess-Paleosol sequences as examples of climate-driven sedimentary extremes: *in* Extreme depositional environments; mega end members in geologic time (Chan, Marjorie A., editor; *et al.*), **Special Paper - Geological Society of America**, 370, p. 53-74, illus. incl. sects., sketch maps, 109 ref., 2003.

58001087

Harris, C. (Cardiff University, Department of Earth Sciences, Cardiff, United Kingdom) and Smith, J. S.

Modelling gelification processes; the significance of frost heave and slope gradient: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 355-360, illus. incl. 2 tables, 19 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

58001088

Hauck, C. (University of Karlsruhe, Graduiertenkolleg Natural Disasters, Karlsruhe, Federal Republic of Germany) and Vonder Mühl, D.

Permafrost monitoring using time-lapse resistivity tomography: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 361-366, illus., 18 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

58001089

Heggem, E. S. F. (University of Oslo, Department of Physical Geography, Oslo, Norway); Julissen, H. and Etzelmüller, B.

Mountain permafrost in the Solen Massif, central-eastern Norway; first results: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 367-371, illus. incl. sketch map, 14 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

58001090

Heldmann, J. (University of Colorado, Laboratory for Atmospheric and Space Physics, Boulder, CO); Toon, O.; McKay, C.; Andersen, D. and Pollard, W.

High Arctic saline springs as analogues for springs on Mars: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 373-376, illus. incl. 2 tables, 5 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

58001091

Leibman, M. O. (Russian Academy of Sciences, Siberian Branch, Earth Cryosphere, Tyumen, Russian Federation); Kizyakov, A. I.; Sulerzhitsky, L. D. and Zaretskaia, N. E. Dynamics of landslide slopes and their development on Yamal Peninsula: *in Proceedings of the Eighth international conference on Permafrost (Phillips, Marcia, editor; et al.), International Conference on Permafrost, Proceedings*, 8, Volume 1, p. 651-656, illus. incl. 1 table, sketch map, 12 ref., 2003. *Meeting:* July 21-25, 2003, Zurich, Switzerland.

58001092

Goryachkin, S. V. (Russian Academy of Sciences, Institute of Geography, Moscow, Russian Federation); Spiridonova, I. A.; Sedov, S. N. and Targulian, V. O.

Boreal soils on hard gypsum rocks; morphology, properties, and genesis: *Eurasian Soil Science*, 36(7), p. 691-703, illus. incl. 7 tables, 16 ref., July 2003.

58001093

Yasinskii, S. V. (Russian Academy of Sciences, Institute of Geography, Moscow, Russian Federation) and Gusev, E. M.

Dynamic-stochastic modeling of spring slope runoff in small drainage areas: **Eurasian Soil Science**, 36(7), p. 761-774, illus., 87 ref., July 2003.

58001094

Ratkin, N. E. (Institute of Economic Technologies of the North, Russian Federation).

Snezhnyy pokrov i kolichestvennaia otsenka aerotekhnogenmogo zagryazneniiia podstilaiushchei poverkhnosti [Snow cover and its role in qualitative evaluation of aerotechnological pollution of surface]: **Izvestiia Akademii Nauk, Rossiiskaia Akademiia Nauk, Seriia Geograficheskaiia**, 2002(6), p. 46-54 (English sum.), illus. incl. 5 tables, 18 ref., December 2002.

58001095

Woo, Ming-ko (McMaster University, School of Geography and Geology, Hamilton, ON, Canada) and Young, Kathy L.

Hydrogeomorphology of patchy wetlands in the High Arctic, polar desert environment: **Wetlands (Wilmington, NC)**, 23(2), p. 291-309, illus. incl. 3 tables, sketch maps, 44 ref., June 2003.

58001096

Buch, Victoria (Fritz Haber Research Center for Molecular Dynamics, Jerusalem, Israel) and Devlin, J. Paul.

Water in confining geometries: *in the collection* Springer Series in Cluster Physics.

Springer-Verlag Berlin Heidelberg, Federal Republic of Germany, 471 p., illus., 2003. ISBN: 3-540-00411-4.

58001097

Horn, Andrew B. (University of Manchester, Department of Chemistry, Manchester, United Kingdom) and Sodeau, John R.

Interactions and photochemistry of small molecules on ice surfaces; from atmospheric chemistry to astrophysics: *in* Water in confining geometries (Buch, Victoria; *et al.*), *in the collection* Springer Series in Cluster Physics. Springer-Verlag Berlin Heidelberg, Federal Republic of Germany, p. 295-334, illus., 160 ref., 2003.

58001098

Baragiola, Raul A. (University of Virginia, Laboratory for Atomic and Surface Physics, Engineering Physics, Charlottesville, VA).

Microporous amorphous water ice thin films; properties and their astronomical implications: *in* Water in confining geometries (Buch, Victoria; *et al.*), *in the collection* Springer Series in Cluster Physics. Springer-Verlag Berlin Heidelberg, Federal Republic of Germany, p. 359-395, illus., 296 ref., 2003.

58001099

Bartell, Lawrence S. (University of Michigan, Department of Chemistry, Ann Arbor, MI) and Chushak, Yaroslav G.

Nucleation of ice in large water clusters; experiment and simulation: *in* Water in confining geometries (Buch, Victoria; *et al.*), *in the collection* Springer Series in Cluster Physics. Springer-Verlag Berlin Heidelberg, Federal Republic of Germany, p. 399-424, illus., 79 ref., 2003.

58001100

Devlin, J. Paul (Oklahoma State University, Department of Chemistry, Stillwater, OK) and Buch, Victoria.

Ice nanoparticles and ice adsorbate interactions; FTIR spectroscopy and computer simulations: *in Water in confining geometries* (Buch, Victoria; *et al.*), *in the collection* Springer Series in Cluster Physics. Springer-Verlag Berlin Heidelberg, Federal Republic of Germany, p. 425-462, illus., 97 ref., 2003.

58001101

Godber, Kate (University of Tasmania, School of Earth Sciences, Australia).

Bicentennial gold 88 endowment supports geophysical research on Macquarie Island: **The AusIMM Bulletin (1990)**, 2003(3), p. 69-70, 72, illus., June 2003.

58001102

Zvyagintsev, A. M. (Central Aerological Observatory, Moscow, Russian Federation) and Kruchenitskii, G. M.

Relationship between total ozone content in the Northern Hemisphere and the Arctic and North Atlantic Oscillations: **Izvestiya, Atmospheric and Oceanic Physics**, 39(4), p. 456-460, illus. incl. 1 table, 9 ref., August 2003.

58001103

Lisicki, Stanislaw (Panstwowy Instytut Geologiczny, Warsaw, Poland).

Zasiegi lodolodu skandynawskiego w dorzeczu Wisły wyznaczone na podstawie petrograficznych badań glin lodowcowych, w nawiazaniu do izotopowych stadiów tlenowych [Ranges of the Scandinavian ice sheet within the Vistula drainage basin according to petrographical studies of tills and correlation with oxygen isotopic stages]: **Przeglad Geologiczny**, 51(3), p. 217-223 (English sum.), illus., 25 ref., 2003. *Pleistocene*

58001104

Randerson, James.

Oil plus ice spells big trouble at sea: **New Scientist (1971)**, 179(2413), p. 18, illus., September 26, 2003.

58001105

Stott, Philip (University of London, London, United Kingdom).

You can't control the climate: **New Scientist (1971)**, 179(2413), p. 25, illus., September 26, 2003.

58001106

Hogan, Jenny.

Global warming; the new battle: **New Scientist (1971)**, 179(2412), p. 6-7, illus., September 13, 2003.

58001107

Hawley, Charles Caldwell.

Wesley Earl Dunkle; Alaska's flying miner: *in the collection* Mining the American West (Smith, Duane A., editor; Trennert, Robert A., editor; Zhu, Liping, editor). University Press of Colorado, Boulder, CO, 274 p., illus. incl. portrs., sketch maps, 49 ref., 2003. ISBN: 0-78081-723-X.

58001108

Stanley, Steven M. (Johns Hopkins University, Morton K. Blaustein Department of Earth and Planetary Sciences, Baltimore, MD) and Powell, Matthew G.

Depressed rates of origination and extinction during the late Paleozoic ice age; a new state for the global marine ecosystem: **Geology (Boulder)**, 31(10), p. 877-880, illus., 35 ref., October 2003.

58001109

Landvik, Jon Y. (Agricultural University of Norway, Department of Soil and Water Sciences, As, Norway); Brook, Edward J.; Gaultier, Lyn; Raisbeck, Grant; Salvigsen, Otto and Yiou, Françoise.

Northwest Svalbard during the last glaciation; ice-free areas existed: **Geology (Boulder)**, 31(10), p. 905-908, illus. incl. 1 table, sketch map, 26 ref., October 2003.

58001110

Pan Baotian (Lanzhou University, Department of Geography, Lanzhou, China); Burbank, Douglas; Wang Yixiang; Wu Guangjian; Li Jijun and Guan Qingyu.

A 900 k.y. record of strath terrace formation during glacial-interglacial transitions in Northwest China: **Geology (Boulder)**, 31(11), p. 957-960, illus. incl. sect., 1 table, geol. sketch map, 24 ref., November 2003.

58001111

Isbell, John L. (University of Wisconsin, Department of Geosciences, Milwaukee, WI); Lenaker, Paul A.; Askin, Rosemary A.; Miller, Molly F. and Babcock, Loren E.

Reevaluation of the timing and extent of late Paleozoic glaciation in Gondwana; role of the Transantarctic Mountains: **Geology (Boulder)**, 31(11), p. 977-980, illus. incl. geol. sketch map, 38 ref., November 2003.

58001112

Muttoni, Giovanni (Universita di Milano, Dipartimento di Scienze della Terra, Milan, Italy); Carcano, Cipriano; Garzanti, Eduardo; Ghielmi, Manlio; Piccin, Andrea; Pini, Roberta; Rogledi, Sergio and Sciunnach, Dario.

Onset of major Pleistocene glaciations in the Alps: **Geology (Boulder)**, 31(11), p. 989-992, illus. incl. sects., sketch map, 20 ref., November 2003.

58001113

Page, Michael C. (James Cook University, School of Earth Sciences, Townsville, Queensl., Australia); Dickens, Gerald R. and Dunbar, Gavin B.

Tropical view of Quaternary sequence stratigraphy; siliciclastic accumulation on slopes east of the Great Barrier Reef since the last glacial maximum: **Geology (Boulder)**, 31(11), p. 1013-1016, illus. incl. sketch map, 35 ref., November 2003. With GSA Data Repository Item 2003147.

58001114

Schuenemeyer, John H. (Southwest Statistical Consulting, Cortez, CO).

Methodology and results for the assessment of oil and gas resources, National Petroleum Reserve, Alaska: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0118, 201 p., illus. incl. 33 tables, 5 ref., 2003. WWW. Accessed on Nov. 3, 2003; includes appendices.

<http://geopubs.wr.usgs.gov/open-file/of03-118/>

58001115

Bird, Kenneth J. (U. S. Geological Survey).

Overview of the Alaska North Slope posters presented at the American Association of Petroleum Geologists (AAPG) annual meeting in Salt Lake City, Utah, USA during May 11-14, 2003; a status report of the U. S. Geological Survey Alaska petroleum studies: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0323, 1 sheet, 2003. WWW. Accessed on Nov. 3, 2003.
<http://geopubs.wr.usgs.gov/open-file/of03-323/>

58001116

Magoon, L. B. (U. S. Geological Survey); Lillis, P. G.; Bird, K. J.; Lampe, C. and Peters, K. E.

Alaskan North Slope petroleum systems: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0324, 3 sheets, illus., 2003. WWW. Accessed on Nov. 3, 2003.
<http://geopubs.wr.usgs.gov/open-file/of03-324/>

58001117

Keller, Margaret A. (U. S. Geological Survey) and Bird, Kenneth J.

Petroleum source potential of the Lower Cretaceous mudstone succession of the NPRA and Colville Delta area, North Slope Alaska, based on sonic and resistivity logs: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0325, 2 sheets, 2003. WWW. Accessed on Nov. 3, 2003.

<http://geopubs.wr.usgs.gov/open-file/of03-325/>

58001118

Lampe, C. (U. S. Geological Survey); Peters, K. E.; Magoon, L. B.; Bird, K. J. and Lillis, P. G.

Petroleum systems of the Alaskan North Slope; a numerical journey from source to trap: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0326, 3 sheets, illus., 2003. WWW. Accessed on Nov. 3, 2003.

<http://geopubs.wr.usgs.gov/open-file/of03-326/>

58001119

Moore, Thomas E. (U. S. Geological Survey); Potter, Christopher J.; O'Sullivan, Paul B.; Shelton, Kevin L. and Underwood, Michael B.

Association of deformation and fluid events in the central Brooks Range fold-and-thrust belt, Northern Alaska: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0327, 2 sheets, illus. incl. sects., geol. sketch maps, 7 ref., 2003. WWW. Accessed on Nov. 3, 2003.
<http://geopubs.wr.usgs.gov/open-file/of03-327/>

58001120

Peters, K. E. (U. S. Geological Survey); Bird, K. J.; Keller, Margaret A.; Lillis, P. G. and Magoon, L. B.

Distribution, richness, quality, and thermal maturity of source rock units on the North Slope of Alaska: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0328, 3 sheets, 2003. WWW. Accessed on Nov. 3, 2003.

<http://geopubs.wr.usgs.gov/open-file/of03-328/>

58001121

Rowan, Elisabeth L. (U. S. Geological Survey); Hayba, Daniel O.; Nelson, Philip H.; Burns, W. Matthew and Houseknecht, David W.

Sandstone and shale compaction curves derived from sonic and gamma ray logs in offshore wells, North Slope, Alaska; parameters for basin modeling: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0329, 3 sheets, illus., 2003. WWW. Accessed on Nov. 3, 2003.
<http://geopubs.wr.usgs.gov/open-file/of03-329/>

58001122

Saltus, R. W. (U. S. Geological Survey) and Bird, Kenneth J.

North Alaska petroleum analysis; the regional map compilation: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0330, 1 sheet, illus. incl. sketch maps, 2003. WWW. Accessed on Nov. 3, 2003.

<http://geopubs.wr.usgs.gov/open-file/of03-330/>

58001123

Minervini, J. M. (U. S. Geological Survey); O'Connor, J. E. and Wells, R. E.

Maps showing inundation depths, ice rafted erratics, and sedimentary facies of late Pleistocene Missoula floods in the Willamette Valley, Oregon: **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 03-0408, 1 sheet, colored surficial geology maps, 1:250,000, 17 ref., 2003. WWW. Accessed on Nov. 6, 2003.

<http://geopubs.wr.usgs.gov/open-file/of03-408/>

58001124

Geist, Eric L. (U. S. Geological Survey, Menlo Park, CA); Jakob, Matthias; Wieczoreck, Gerald F. and Dartnell, Peter.

Preliminary hydrodynamic analysis of landslide-generated waves in Tidal Inlet, Glacier Bay National Park, Alaska: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0411, 20 p., illus. incl. sketch maps, 26 ref., 2003. WWW. Accessed on Nov. 6, 2003.

<http://geopubs.wr.usgs.gov/open-file/of03-411/>

58001125

Horii, Masae (Japan Marine Science and Technology Center, Yokosuka, Japan); Sakai, Hideo and Takano, Masao.

Variability in palaeoclimatic periodicity over 2,500 kyr from magnetic susceptibility of Lake Baikal sediments: *in* Himalayan uplift and paleoclimatic changes in central Nepal (Sakai, Harutaka, editor), **Journal of Nepal Geological Society**, 25, p. 93-98, illus. incl. sketch map, 14 ref., December 2001. *Meeting*: Nov. 10, 2000, Kathmandu, Nepal.

58001126

Lanan, Glenn A. (INTEC Engineering); Ennis, John O.; Egger, Patrick S. and Yockey, Kenneth E.

Northstar offshore Arctic pipeline design and construction: *in* Offshore technology conference; proceedings, **Proceedings - Offshore Technology Conference**, 33, Vol. 2, p. 621-628, illus. incl. geol. sketch maps, 2 tables, sects., 9 ref., 2001. *Meeting*: April 30-May 3, 2001, Houston, TX.

58001127

de Roos, M. C. (Technical University of Delft, Delft, Netherlands); Oldenziel, T. and van Kruijsdijk, C. P. J. W.

Neural network as an alternative to rock physics modeling in time-lapse seismic reservoir monitoring: *in* Offshore technology conference; proceedings, **Proceedings - Offshore Technology Conference**, 33, Vol. 2, p. 853-859, illus. incl. geol. sketch map, sects., block diag., 10 ref., 2001. *Meeting:* April 30-May 3, 2001, Houston, TX.

58001128

Mel'nikov, P. I. (USSR Academy of Sciences, Institute of Permafrost, Yakutsk, USSR); Tel'tbaum, A. S. and Fel'dman, G. M.

Fluctuating movement of the permafrost boundary: **Doklady of the U.S.S.R. Academy of Sciences: Earth Science Sections**, 304, p. 50-52, illus., 2 ref., July 1990.

58001129

Palmer, A. S. (Massey University, Department of Soil Science, Palmerston North, New Zealand) and Pillans, Brad J.

Record of climatic fluctuations from ca. 500 ka loess deposits and Paleosols near Wanganui, New Zealand: *in* Tephra, loess, and Paleosols; an integration (Lowe, David J., editor), **Quaternary International**, 34-36, p. 155-162, illus. incl. strat. col., 2 tables, geol. sketch map, 38 ref., 1996. *Meeting:* International inter-INQUA field conference and workshop on Tephrochronology, loess, and paleopedology, Feb. 7-12, 1994, Hamilton, New Zealand.

58001130

Jania, Jacek, editor; Pulina, Marian, editor and Kosinska, Janina, translator.

Field investigations performed during the glaciological Spitsbergen expedition in 1983: Silesian University, Institute of Geography, Sosnowiec, Poland, 50 p., illus. incl. tables, sketch maps, 28 ref., 1983. Individual papers are cited separately.

58001131

Jania, Jacak and Pulina, Marian.

Organization and course of the expedition: *in* Field investigations performed during the glaciological Spitsbergen expedition in 1983 (Jania, Jacek, editor; *et al.*), Silesian University, Institute of Geography, Sosnowiec, Poland, p. 8-11, 1983.

58001132

Pereyma, Jerzy and Piasecki, Jacek.

Meteorological conditions in the Werenskiold Glacier basin: *in* Field investigations performed during the glaciological Spitsbergen expedition in 1983 (Jania, Jacek, editor; *et al.*), Silesian University, Institute of Geography, Sosnowiec, Poland, p. 12-14, illus. incl. 1 table, 1983.

58001133

Krawczyk, Wieslawa and Pulina, Marian.

Hydrochemical investigations in the Werenskiold Glacier basin: *in* Field investigations performed during the glaciological Spitsbergen expedition in 1983 (Jania, Jacek, editor; *et al.*), Silesian University, Institute of Geography, Sosnowiec, Poland, p. 15-18, illus.; glacial geology map, 1:50,000, 1983.

58001134

Glowacki, Piotr.

Recording some of the physicochemical variations that occurred in the Werenskiold glaciers waters: *in* Field investigations performed during the glaciological Spitsbergen expedition in 1983 (Jania, Jacek, editor; *et al.*), Silesian University, Institute of Geography, Sosnowiec, Poland, p. 19-25, illus., 1983.

58001135

Misztal, Stanislaw and Pulina, Marian.

Investigation of glacier caves: *in* Field investigations performed during the glaciological Spitsbergen expedition in 1983 (Jania, Jacek, editor; *et al.*), Silesian University, Institute of Geography, Sosnowiec, Poland, p. 26-33, illus. incl. geol. sketch map, 1983.

58001136

Jania, Jacek; Kolondra, Leszek and Bukowska-Jania, Elzbieta.

Photogrammetric survey of glaciers: *in* Field investigations performed during the glaciological Spitsbergen expedition in 1983 (Jania, Jacek, editor; *et al.*), Silesian University, Institute of Geography, Sosnowiec, Poland, p. 34-38, illus.; glacial geology map, 1:100,000; glacial geology map, 1:20,000, 1983.

58001137

Pulina, Marian, leader.

Hydrological and glaciological investigations on Bertil Glacier and in the Gronfjord region: *in* Field investigations performed during the glaciological Spitsbergen expedition in 1983 (Jania, Jacek, editor; *et al.*), Silesian University, Institute of Geography, Sosnowiec, Poland, p. 39-46, illus. incl. 2 tables; glacial geology map, 1:10,000, 1983.

58001138

McConnell, J. (Newfoundland Geological Survey, Saint John's, NF, Canada).

The use of till and stream geochemistry to define lake-sediment/water anomalies in central Labrador: **Report of Activities - Newfoundland. Geological Survey Branch**, Rep. No. 1999, p. 4-5, sketch map, 2 ref., 1999.

58001139

Taylor, D. (Newfoundland Geological Survey, Saint John's, NF, Canada) and Liverman, D.

Till geochemistry in the Hodges Hill area: **Report of Activities - Newfoundland. Geological Survey Branch**, Rep. No. 1999, p. 6, sketch map, 1 ref., 1999.

58001140

Batterson, M. (Newfoundland Geological Survey, Saint John's, NF, Canada) and Sheppard, K.

Quaternary geology of northern St. George's Bay (NTS map areas 12B/6, 8, 9, 10 and 11): **Report of Activities - Newfoundland. Geological Survey Branch**, Rep. No. 1999, p. 41-42, sketch map, 1999.

58001141

Völk, Hellmut (University of Heidelberg, Institute of Geography, Heidelberg, Federal Republic of Germany).

Geomorphological and depositional features around Thulagi glacial lake in Manaslu Himal, central Nepal: **Journal of Nepal Geological Society**, 17, p. 53-58, illus., 1 ref., June 1998.

58001142

Scott, Peter A. (Atmospheric Environment Service, Centre for Atmospheric Research Experiments, Egbert, ON, Canada) and Meentemeyer, Vernon, editors.

Circumpolar ecosystems in winter: **Climate Research**, 5(1), 98 p., illus., February 23, 1995. CR Special 1995; individual papers are cited separately.

58001143

Liang, Linheng (University of Alberta, Department of Geography, Edmonton, AB, Canada) and Kershaw, G. Peter.

Climate change in the Mackenzie Mountains, N.W.T., Canada: *in* Circumpolar ecosystems in winter (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 1-13, illus. incl. 3 tables, sketch map, 29 ref., February 23, 1995.

58001144

Kershaw, G. Peter (University of Alberta, Department of Geography, Edmonton, AB, Canada).

Snowpack ablation and associated processes in the subarctic forest near Fort Norman, N.W.T., Canada: *in* Circumpolar ecosystems in winter (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 15-23, illus. incl. sketch map, 11 ref., February 23, 1995.

58001145

Boudreau, L. Dale (McMaster University, Department of Geography, Hamilton, ON, Canada) and Rouse, Wayne R.

The role of individual terrain units in the water balance of wetland tundra: *in* Circumpolar ecosystems in winter (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 31-47, illus. incl. 5 tables, sketch map, 46 ref., February 23, 1995.

58001146

Lee, Richard E., Jr. (Miami University, Department of Zoology, Oxford, OH); Dommel, Robyn A.; Joplin, Karl H. and Denlinger, David L.

Cryobiology of the freeze-tolerant gall fly Eurosta solidaginis; overwintering energetics and heat shock proteins: *in* Circumpolar ecosystems in winter (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 61-67, illus. incl. 1 table, 38 ref., February 23, 1995.

58001147

Conover, Robert J. (Bedford Institute of Oceanography, Fisheries and Oceans, Dartmouth, NS, Canada); Wilson, Scott; Harding, Gareth C. H. and Vass, W. Peter.

Climate, copepods and cod; some thoughts on the long-range prospects for a sustainable northern cod fishery: *in* Circumpolar ecosystems in winter (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 69-82, illus. incl. sketch maps, 76 ref., February 23, 1995.

58001148

Oakes, Jill (University of Manitoba, Department of Native Studies, Winnipeg, MB, Canada); Wilkins, Heather; Riewe, Rick; Kelker, Doug and Forest, Tom.

Comparison of traditional and manufactured cold weather ensembles: *in Circumpolar ecosystems in winter* (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 83-90, illus., 27 ref., February 23, 1995.

58001149

Oakes, Jill (University of Manitoba, Department of Native Studies, Winnipeg, MB, Canada).

Climate and cultural barriers to northern economic development; a case study from Broughton Island, N.W.T., Canada: *in Circumpolar ecosystems in winter* (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 91-98, illus., 36 ref., February 23, 1995.

58001150

Layne, Jack R., Jr. (Slippery Rock University, Department of Biology, Slippery Rock, PA) and Lee, Richard E., Jr.

Adaptations of frogs to survive freezing: *in Circumpolar ecosystems in winter* (Scott, Peter A., editor; *et al.*), **Climate Research**, 5(1), p. 53-59, illus., 51 ref., February 23, 1995.

58001151

Durtler, Bill and Driscoll, Rob.

At grips with Jannu; the second generation: **The Canadian Alpine Journal**, 76, p. 5-13, illus., 1993.

58001152

Barnard, Kobus.

Ama Dablam; the clean way: **The Canadian Alpine Journal**, 76, p. 14-19, illus., 1993.

58001153

Powter, Geoff.

Manaslu; a lightening sky: **The Canadian Alpine Journal**, 76, p. 20-27, illus., 1993.

58001154

Kent, Gerry.

A guided fantasy; a client's view of the north face of Mount Temple: **The Canadian Alpine Journal**, 76, p. 30-35, illus., 1993.

58001155

de St. Jorre, Maurice.

A cautionary tale: **The Canadian Alpine Journal**, 76, p. 41-43, illus., 1993.

58001156

Josephson, Joe.

An Alberta summer: **The Canadian Alpine Journal**, 76, p. 44-47, illus., 1993.

58001157

Josephson, Joe.

Ice anchors: **The Canadian Alpine Journal**, 76, p. 66-67, illus., 1993.

58001158

Lawrence, Andrew.

Kluane National Park Reserve climbing summary; 1992: **The Canadian Alpine Journal**, 76, p. 68-69, illus., 1993.

58001159

Williams, David E.

A Yukon-Alaskan ramble: **The Canadian Alpine Journal**, 76, p. 70, illus. incl. sketch map, 1993.

58001160

Bauman, John.

Mt. St. Elias attempt: **The Canadian Alpine Journal**, 76, p. 71, illus., 1993.

58001161

Stanier, Larry.

No sweat in the Arctic: **The Canadian Alpine Journal**, 76, p. 72, 1993.

58001162

Wallis, Roger.

Donjek '92; or the great orange success: **The Canadian Alpine Journal**, 76, p. 73, 1993.

58001163

Hollinger, Craig.

Swedish Mount Logan expedition: **The Canadian Alpine Journal**, 76, p. 73-74, illus., 1993.

58001164

Massin, Allan.

Across the Wrangell Mountains: **The Canadian Alpine Journal**, 76, p. 74, 1993.

58001165

Brown, Margaret.

The coast; rowing to Mount Waddington: **The Canadian Alpine Journal**, 76, p. 78-79, illus., 1993.

58001166

Baldwin, John.

Ten years after: **The Canadian Alpine Journal**, 76, p. 79-80, illus., 1993.

58001167

Serl, Don and Landreville, Mark.

Two new routes on Mount Payne, northeast face: **The Canadian Alpine Journal**, 76, p. 81, illus., 1993.

58001168

Brushey, Steve.

Rock and ice climbing in the Pacific Northwest: **The Canadian Alpine Journal**, 76, p. 84-85, illus., 1993.

58001169

Brown, Ian.

Lillooet Icefield: **The Canadian Alpine Journal**, 76, p. 85, illus., 1993.

58001170

Serl, Don.

The Plum: **The Canadian Alpine Journal**, 76, p. 88, illus., 1993.

58001171

Gilmar, Pat.

Lizard Range; a ski touring hideaway: **The Canadian Alpine Journal**, 76, p. 91, illus., 1993.

58001172

Enagonio, Bob.

Rethinking the Clemenceau Icefield traverse: **The Canadian Alpine Journal**, 76, p. 93, 1993.

58001173

Boles, Glen.

The grizzly group at Longstaff: **The Canadian Alpine Journal**, 76, p. 94-95, illus., 1993.

58001174

Trouillot, Eric.

The southeast face of Mount Sir Douglas in winter: **The Canadian Alpine Journal**, 76, p. 96-97, illus., 1993.

58001175

Cordery-Cotter, Robert.

Where there is no fear; slipstream, solo: **The Canadian Alpine Journal**, 76, p. 99-100, 1993.

58001176

Josephson, Joe.

Rockies' ice update: **The Canadian Alpine Journal**, 76, p. 102-105, 1993.

58001177

Kruszyna, Robert.

Icefall Lake: **The Canadian Alpine Journal**, 76, p. 107-108, 1993.

58001178

Uzieblo, Peter.

Rock routes in the Athabasca Glacier area: **The Canadian Alpine Journal**, 76, p. 107, 1993.

58001179

Holmes, Jeff and Kennedy, Joe.

Rock and ice climbing in New Brunswick: **The Canadian Alpine Journal**, 76, p. 112, illus., 1993.

58001180

Labine, Claude L. (Campbell Scientific (Canada) Corporation, Edmonton, AB, Canada).

Automatic monitoring of High Arctic ice caps; instrumentation issues and data management: *in* The Second automatic water quality monitoring workshop; proceedings (Wade, Norman L., editor), **Proceedings - Automatic Water Quality Monitoring Workshop**, 2, unpaginated, 11 ref., 1996. *Meeting:* Feb. 12-13, 1996, Richmond, BC, Canada.

58001181

Allan, R. David (Alberta Environmental Protection, Technical Services Division, Edmonton, AB, Canada).

Real time and remote water quality monitoring in Alberta: *in* The Second automatic water quality monitoring workshop; proceedings (Wade, Norman L., editor), **Proceedings - Automatic Water Quality Monitoring Workshop**, 2, unpaginated, illus. incl. 3 tables, 2 ref., 1996. *Meeting:* Feb. 12-13, 1996, Richmond, BC, Canada. Includes appendix.

58001182

Schimel, David (University Corporation for Atmospheric Research, Climate Systems Modeling Program, Boulder, CO) and Moore, Berrien, III.

Trace gases and the Earth system: *in* Trace gases and the biosphere; papers arising from the 1988 OIES Global Change Institute (Moore, Berrien, III, editor; *et al.*), UCAR, Office for Interdisciplinary Earth Studies, Boulder, CO, p. 5-12, 1992. *Meeting:* Aug. 8-19, 1988, Snowmass, CO.

58001183

Fehsenfeld, Fred, reporter (NOAA, Aeronomy Laboratory, Boulder, CO); Andreae, Meinrat; Belviso, Sauveur; Chatfield, Robert; Crutzen, Paul; Donahue, Neil; Fung, Inez; Thompson, Lonnie; Trevitt, Chris and Zimmerman, Patrick.

Short-lived biogenic trace gases: *in* Trace gases and the biosphere; papers arising from the 1988 OIES Global Change Institute (Moore, Berrien, III, editor; *et al.*), UCAR, Office for Interdisciplinary Earth Studies, Boulder, CO, p. 41-57, illus. incl. 1 table, sketch map, 5 ref., 1992. *Meeting:* Aug. 8-19, 1988, Snowmass, CO.

58001184

Bolin, Bert (University of Stockholm, Department of Meteorology, Stockholm, Sweden).

The carbon cycle and global change; a focus on CO₂: *in* Trace gases and the biosphere; papers arising from the 1988 OIES Global Change Institute (Moore, Berrien, III, editor; *et al.*), UCAR, Office for Interdisciplinary Earth Studies, Boulder, CO, p. 129-149, illus., 31 ref., 1992. *Meeting:* Aug. 8-19, 1988, Snowmass, CO.

58001185

Raynaud, Dominique (Centre National de la Recherche Scientifique, Laboratoire de Glaciologie Geophysique de l'Environnement, Saint Martin d'Heres, France).

The ice record of the atmospheric composition; a summary, chiefly of CO₂, CH₄, and O₂: *in* Trace gases and the biosphere; papers arising from the 1988 OIES Global Change Institute (Moore, Berrien, III, editor; *et al.*), UCAR, Office for Interdisciplinary Earth Studies, Boulder, CO, p. 165-176, illus. incl. 1 table, 21 ref., 1992. *Meeting*: Aug. 8-19, 1988, Snowmass, CO.

58001186

Mayewski, Paul A. (University of New Hampshire, Institute for the Study of Earth, Oceans, and Space, Durham, NH); Spencer, Mary Jo and Lyons, William Berry.

A review of glaciochemistry with particular emphasis on the Recent record of sulfate and nitrate: *in* Trace gases and the biosphere; papers arising from the 1988 OIES Global Change Institute (Moore, Berrien, III, editor; *et al.*), UCAR, Office for Interdisciplinary Earth Studies, Boulder, CO, p. 177-199, illus. incl. 2 tables, 98 ref., 1992. *Meeting*: Aug. 8-19, 1988, Snowmass, CO.

58001187

Fehsenfeld, Fred (NOAA, Aeronomy Laboratory, Boulder, CO); Fung, Inez; Holligan, Patrick; Holmen, Kim and Schimel, David.

Rapporteurs' critiques of background papers: *in* Trace gases and the biosphere; papers arising from the 1988 OIES Global Change Institute (Moore, Berrien, III, editor; *et al.*), UCAR, Office for Interdisciplinary Earth Studies, Boulder, CO, p. 201-216, illus., 10 ref., 1992. *Meeting*: Aug. 8-19, 1988, Snowmass, CO.