

56001105

Colacino, M. (Istituto di Fisica dell'Atmosfera, Rome, Italy); Giovanelli, G. and Stefanutti, Leopoldo, editors.

7th workshop; Italian research on Antarctic atmosphere: **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, 404 p., illus., 1998. ISBN: 88-7794-142-1. *Meeting*: Oct. 22-24, 1997, Bologna, Italy. Individual papers are cited separately.

56001106

Zucchelli, M.

National Antarctic Research Program (PNRA): *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. XIII-XXVIII, illus. incl. 1 table, 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001107

Colacino, M. (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy).

The Italian research on Antarctic atmosphere; a review: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. XXIX-XXXV, illus., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001108

Baldi, Marina (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy); Sbano, Luca; Dalu, Giovanni A. and Kivi, Rigel.

A lee wave model for high latitude atmospheric flow: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 3-18, illus., 10 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001109

Baldi, Marina (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy); Dalu, Giovanni A.; Casaioli, Marco and Sbano, Luca.

Drainage flows in Antarctica; a first order analytical model: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 19-33, illus. incl. sketch map, 9 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001110

Stortini, M. (Universita di Modena, Dipartamento di Scienze dell'Ingegneria, Modena, Italy); Morelli, S.; Marchesi, S. and Davolio, S.

Numerical mesoscale simulations of the atmospheric flow over Antarctica: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 35-44, illus. incl. geol. sketch maps, 9 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001111

Fantini, Maurizio (CNR, FISBAT, Bologna, Italy).

Effects of latent heat release on baroclinic cyclones: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 45-52, illus., 10 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001112

Tirabassi, T. (CNR, Institute FISBAT, Bologna, Italy); Pasi, P. and Georgiadis, T.
Evaluation of boundary layer parameters from elementary meteorological data near the ground in Antarctica: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 55-64, illus., 12 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001113

Favaron, M. (Servizi Territorio S.C.R.L., Cinisello Balsamo, Italy); Fraternali, D.; Sozzi, R. and Georgiadis, T.
Meteoflux; a data acquisition, processing and presentation system for eddy-covariance and turbulence measurements in the P.B.L. architecture designed for the Dome Concordia experimental campaign, 1997: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 65-76, illus., 2 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001114

Georgiadis, T. (CNR, FISBAT, Bologna, Italy); Bonafe, U.; Trivellone, G.; Sozzi, R.; Favaron, M. and Viola, A.
Surface roughness and turbulence patterns at Reeves neve glacier: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 77-98, illus. incl. 2 tables, 15 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001115

Argentini, S. (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy); Dargaud, G.; Mastrantonio, G.; Viola, A. and Georgiadis, T.
The Dome Concordia 1997 boundary layer experiment: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 99-107, illus., 5 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001116

Mangani, F. (Universita di Urbino, Istituto di Scienze Chimiche, Urbino, Italy); Maione, M. and Lattanzi, L.
Monitoring of CFCs in Antarctic troposphere; 1988-1996: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 109-118, illus. incl. 1 table, 18 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001117

Masia, P. (CNR, Istituto Inquinamento Atmosferico, Rome, Italy); Ianniello, A.; Ursini, C. L. and Allegrini, I.
Developments in sampling and analysis techniques of minor components in the Antarctic troposphere: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 119-126, illus. incl. 2 tables, 10 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001118

Masia, P. (CNR, Istituto Inquinamento Atmosferico, Rome, Italy); **Ianniello, A.**; **Sparapani, R.** and **Allegrini, I.**

Chemical evolution of nitrogen compounds in polar Arctic troposphere: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 127-136, illus. incl. 1 table, 6 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001119

Bonino, G. (Universita di Torino, Dipartimento di Fisica Generale, Turin, Italy); **Longhetto, A.** and **Forza, Renato.**

Analysis of the thermal profiles measured by the metric RASS at Plateau Rosa: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 137-141, 2 tables, 3 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001120

Chiminello, F. (Universita di Padova, Dipartimento di Fisica "Galileo Galilei", Padua, Italy); **Mittner, P.** and **Ceccato, D.**

Elemental ratios and enrichment factors in the tropospheric aerosol at Terra Nova Bay; methods of analysis and results for the coarse fraction, a progress report: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 143-153, 4 tables, 6 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001121

Mittner, P. (Universita di Padova, Dipartimento di Fisica "Galileo Galilei", Padua, Italy); **Chiminello, F.**; **Ceccato, D.**; **Schiavuta, E.**; **Buso, P.**; **Mazza, M.**; **Bombi, G. G.** and **Macca, C.**

Tropospheric aerosol at Terra Nova Bay (Antarctica); recent results of a systematic study during the summer season: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 155-166, illus. incl. 4 tables, 10 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001122

Cava, D. (CNR, Istituto ISIATA, Lecce, Italy); **Giostra, U.**; **Trombetti, F.** and **Tagliazucca, M.**

Spectral characteristics of waves and turbulence in a stable boundary layer: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 167-179, illus., 20 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001123

Lavagnini, Alfredo (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy) and **Sempreviva, Anna M.**

Some characteristics of the surface layer turbulence at Hells Gate, Terra Nova Bay, from the analysis of two summer campaigns: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 181-194, illus. incl. 2 tables, geol. sketch maps, 9 ref., 1998. *Meeting*: Oct. 22-24, 1997, Bologna, Italy.

56001124

Sempreviva, Anna M. (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy); Lavagnini, Alfredo and Forza, Renato.

Stable flow features in Antarctica; a case study: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 195-214, illus. incl. geol. sketch maps, 11 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001125

Ferrarese, S. (Universita Alessandria, Dipartimento di Scienze e Tecnologie Avanzate, Alessandria, Italy); Bertoni, D.; Cassardo, C.; Ficca, G.; Forza, Renato; Longhetto, A.; Pangia, M. and Purini, R.

Vertical exchange of heat energy in the surface layer of Antarctic atmosphere: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 215-227, illus. incl. geol. sketch map, 12 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001126

Qian, M. W. (Chinese Academy of Sciences, LAPC, Beijing, China); Longhetto, A.; Ferrarese, S.; Cassardo, C.; Luo, W. D.; Zhao, Y. J. and Hong, Z. X.

Relationships between stress cospectral features and momentum flux in Antarctic Pole (Terra Nova Bay) and Xianghe (Beijing): *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 229-236, illus., 5 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001127

Giovanelli, G. (CNR, FISBAT, Bologna, Italy); Bonasoni, P.; Colombo, T.; Lenaz, R. and Ori, C.

Spatial temporal trend of CO₂ and O₃ concentration values recorded from the Mediterranean Sea to the Antarctica; ship-board results: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 237-250, illus., 20 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001128

Tomasi, Claudio (CNR, Istituto FISBAT, Bologna, Italy) and Vitale, Vito.

Calculation of the relative optical mass functions for air, water vapour, ozone and nitrogen dioxide in the Antarctic and Arctic atmospheres: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 253-282, illus., 43 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001129

Gobbi, Gian Paolo (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy).

Modeling optical properties of mixed-phase polar stratospheric clouds in late winter conditions: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 283-293, illus., 16 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001130

Guzzi, Donatella (CNR, IROE, Florence, Italy); Stefanutti, Leopoldo; Castagnoli, Francesco; DelGuasta, Massimo; Morandi, Marco and Santacesaria, Vincenzo.

Six-year aerosols and PSCs measurements at Dumont D'Urville (Antarctica): *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 295-305, illus. incl. 1 table, 13 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001131

Ciattaglia, Luigi (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy).

First 3 years of atmospheric CO₂ concentrations measurements at Jubany Station; characteristics, growth rate and relationship with the origin of air masses: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 307-315, illus., 3 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001132

Rafanelli, C. (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy); Anav, A.; Moriconi, M. L.; Di Menno, I.; Di Menno, M.; Valenti, C. and Iturraspe, R.

Radiometric and spectral UV measurements in Ushuaia: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 317-323, illus. incl. 1 table, sketch map, 6 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001133

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

Polar stratospheric clouds occurrence at McMurdo Station, 78S, 167E, in the period 1993-1995: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 325-332, illus. incl. 1 table, sketch maps, 11 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001134

Storini, M. (Universita di Roma, Dipartimento di Fisica, Rome, Italy); Signoretti, F.; Massetti, S.; Re, F.; Zangrilli, N.; Signorini, C.; Cordaro, E. G.; Olivares, E.; Iucci, N. and Parisi, M.

LARC towards the new century: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 335-344, illus. incl. 3 tables, 16 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001135

Massetti, S. (CNR, IFCI, Rome, Italy); Storini, M. and Cordaro, E. G.

Barometric effects on LARC data: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 345-355, illus. incl. 3 tables, 13 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001136

Perrone, L. (CNR, Istituto Nazionale di Geofisica, Rome, Italy); De Santis, A. and De Franceschi, G.

Non-linear analysis of riometric data recorded at Terra Nova Bay, Antarctica: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 357-366, illus., 12 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001137

Consolini, Giuseppe (CNR, Istituto di Fisica dello Spazio Interplanetario, Rome, Italy); De Michelis, Paola; Meloni, Antonio; Cafarella, Lili and Candidi, Maurizio.

Levy-stable probability distribution of magnetic field-fluctuations at Terra Nova Bay (Antarctica): *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 367-376, illus., 22 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001138

Ballatore, P. (CNR, IFSI, Rome, Italy); MacLennan, C. G. and Engebretson, M. J.

A new geomagnetic index for Antarctic latitudes: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 377-380, illus. incl. 1 table, 8 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001139

Consolini, Giuseppe (CNR, Istituto di Fisica dello Spazio Interplanetario, Rome, Italy); Marcucci, M. F.; Candidi, M.; Bellucci, G. and Ozu, R. S.

Preliminary results of the Italian Auroral All-Sky Camera at General Belgrano II, Antarctica: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 381-390, illus., 6 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001140

Biagioli, S. (Italian National Research Council, Institute for Information Processing, Pisa, Italy); Carlesi, C.; Salvetti, O. and Spoto, V.

A new graphic user interface to the South Pole Information System: *in* 7th workshop; Italian research on Antarctic atmosphere (Colacino, M., editor; *et al.*), **Atti di Conferenze - Societa Italiana di Fisica = Conference Proceedings - Italian Physical Society**, 62, p. 393-398, illus., 7 ref., 1998. *Meeting:* Oct. 22-24, 1997, Bologna, Italy.

56001145

Taylor, Susan (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Hardy, Janet, editors.

Proceedings of the fifty-sixth annual Eastern snow conference: **Proceedings of the Annual Eastern Snow Conference**, 56, 301 p., illus., 1999. ISBN: 0-920081-21-5. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada. Individual papers and abstracts are cited separately. CRREL Report No: ERDC/CRREL MP-02-5775

56001146

Barber, D. G. (University of Manitoba, Department of Geography, Winnipeg, MB, Canada) and Hanesiak, J.

Integration of remote sensing measurements and numerical modelling of snow on sea ice [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 3, 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001147

Barton, J. S. (NASA, Goddard Space Flight Center, Hydrological Sciences Branch, Greenbelt, MD); Hall, D. K.; Sigurdsson, O.; Williams, R. S., Jr.; Smith, L. C. and Garvin, J. B.

Calculation and error analysis of a digital elevation model of Hofsjokull, Iceland, from SAR interferometry: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 5-12, illus. incl. 1 table, sketch maps, 20 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001148

Bernier, M. (INRS-Eau, Sainte-Foy, PQ, Canada); Fortin, J. P.; Gauthier, Y.; Gauthier, R.; Roy, R. and Vincent, P.

Pre-operational determination of snow water equivalent (SWE) using RADARSAT data: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 13-22, illus. incl. 3 tables, sketch maps, 7 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001149

Brettschneider, S. (University of Quebec in Chicoutimi, NSERC/Hydro-Québec Industrial Chair on Atmospheric Icing of Power Network Equipment, Chicoutimi, PQ, Canada); Farzaneh, M.; Srivastava, K. D. and Li, S. Y.

Study of ice surface breakdown using ultra-high speed photography: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 23-30, illus. incl. 2 tables, 18 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001150

De Sève, D. (INRS-Eau, Sainte-Foy, PQ, Canada); Bernier, M.; Fortin, J. P. and Walker, A.

Analysis of microwave radiometry of snow cover with SSM/I data in a taiga area; the case of James Bay area (Québec): *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 31-42, illus. incl. 4 tables, sketch map, 12 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001151

Drai, D. (Université Laval, Département de Géographie et Centre d'Études Nordiques, Sainte-Foy, PQ, Canada); Duguay, C. R. and Pivot, F.

Use of georadar in support of satellite remote sensing investigation of lake ice cover [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 43, 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001152

Duguay, C. R. (Université Laval, Département de Géographie et Centre d'études nordiques, Sainte-Foy, PQ, Canada); Ernou, Y. and Hawkings, J.
SAR and optical satellite observations of ice-covered thermokarst lakes, Old Crow Flats, Yukon Territory [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 45, 1999. *Meeting*: June 2-4, 1999, Fredericton, NB, Canada.

56001153

Duguay, C. R. (Université Laval, Laboratoire de Télédétection et de Modelisation des Environnements Froids (LTMEF), Sainte-Foy, PQ, Canada) and Lafleur, P. M.
Determining depth and ice thickness of shallow subarctic lakes and ponds using spaceborne optical and SAR data [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 47-48, 10 ref., 1999. *Meeting*: June 2-4, 1999, Fredericton, NB, Canada.

56001154

Duguay, C. R. (Université Laval, Laboratoire de Télédétection et de Modelisation des Environnements Froids (LTMEF), Sainte-Foy, PQ, Canada); Pulz, T. J.; Drai, D. and Lafleur, P. M.

Spatial and temporal variations in RADARSAT backscatter from subarctic lake ice (Churchill, Manitoba) [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 49-50, 7 ref., 1999. *Meeting*: June 2-4, 1999, Fredericton, NB, Canada.

56001155

Fassnacht, S. R. (University of Waterloo, Department of Civil Engineering, Waterloo, ON, Canada); Soulis, E. D. and Kouwen, N.

Algorithm application to improve weather radar snowfall estimates for winter hydrologic modeling: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 51-70, illus. incl. 6 tables, sketch map, 33 ref., 1999. *Meeting*: June 2-4, 1999, Fredericton, NB, Canada.

56001156

Hall, D. K. (NASA, Goddard Space Flight Center, Hydrological Sciences Branch, Greenbelt, MD); Tait, A. B.; Foster, J. L.; Chang, A. T. C. and Allen, M.

Comparison of snow-cover maps derived from multiple satellite data sets: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 71-74, illus. incl. 2 tables, 6 ref., 1999. *Meeting*: June 2-4, 1999, Fredericton, NB, Canada.

56001157

Hollingsworth, J. A. (National Weather Service Office) and Adolphson, J. L.

The integration of digital GOES-8 satellite imagery with observational and prognostic datasets during the winter storm of January 1999 [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 75, 1999. *Meeting*: June 2-4, 1999, Fredericton, NB, Canada.

56001158

Klein, A. G. (Texas A&M University, Department of Geography, College Station, TX) and Hall, D. K.

Snow albedo determination using the NASA MODIS instrument: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 77-85, illus. incl. sketch map, 18 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001159

Riggs, G. A. (NASA, Goddard Space Flight Center, Research & Data Systems Corporation, Greenbelt, MD) and Hall, D. K.

What's in the MODIS snow data products? [abstr.]: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 87, 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001160

Romanov, P. (NOAA/NESDIS, Office of Research and Applications, Camp Springs, MD); Csiszar, I. and Gutman, G.

Towards automated multispectral snow mapping [abstr.]: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 89, 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001161

Smyth, J. (Université de Moncton, École de sciences forestières, Edmundston, NB, Canada) and Goita, K.

Statistical analysis of the impact of temperature and vegetation cover on snow water equivalent using SSM/I data over New Brunswick and southern Québec: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 91-97, illus. incl. 2 tables, 12 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001162

Cole, J. A. (National Center for Atmospheric Research, Applied Science Group, Boulder, CO).

Wind shield evaluation at NCAR/Marshall Test Site in Boulder, Colorado, during 1998-1999 winter [abstr.]: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 101, 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001163

Fassnacht, S. R. (University of Waterloo, Department of Civil Engineering, Waterloo, ON, Canada); Innes, J.; Kouwen, N. and Soulis, E. D.

The specific surface area of fresh dendritic snow crystals: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 103-119, illus. incl. 3 tables, 10 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001164

Fortin, G. (Université du Québec, Institut National de la Recherche Scientifique, Quebec City, PQ, Canada); Granberg, H. and Dubois, J. M.

Snow monitoring at the Kouchibouguac National Park, New Brunswick (1974-1998) [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 121, 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001165

Hartley, S. (Morehead State University, Department of Geography, Government and History, Morehead, KY).

Atlantic sea surface temperatures and winter snowfall along the southern margin of the Eastern United States snowbelt [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 123, 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001166

Heim, R. R., Jr. (USDOC/NOAA/NESDIS/National Climatic Center, Asheville, NC) and Angel, J. R.

Urbana, Illinois; 20th century snowfall variations and non-climatic influences: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 125-140, illus. incl. 7 tables, 9 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001167

Heim, R. R., Jr. (USDOC/NOAA/NESDIS/National Climatic Data Center, Asheville, NC) and Leffler, R. J.

Cooperative station snow climatologies: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 141-146, illus., 5 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001168

Mekis, E. (Atmospheric Environment Service, Climate Research Branch, Downsview, ON, Canada) and Zhang, Xuebin.

Computation of Canadian gridded snowfall based on rehabilitated station data [abstr.]: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 147-148, 2 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001169

Roohr, P. B. (Colorado State University, Department of Atmospheric Sciences, Cooperative Institute for Research in the Atmosphere (CIRA), Fort Collins, CO) and Vonder Haar, T. H.

An analysis of the incorporation of lightning into the nowcasting of enhanced frozen precipitation: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 149-166, illus. incl. 1 table, 7 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001170

Albert, M. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Koh, G. and Perron, F.

Preferential melt pathways in a natural snow pack: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 169-176, illus., 10 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada. CRREL Report No: ERDC/CRREL MP-02-5767

56001171

Cajina, N. S. (University of Maryland, Department of Civil and Environmental Engineering, College Park, MD); Brubaker, K. L. and Rango, A.

Implementing the snowmelt runoff model in the USGS modular modeling system: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 177-186, illus. incl. 1 table, 22 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001172

Collins, D. N. (University of Salford, School of Environmental and Life Sciences, Manchester, United Kingdom).

Solute fluxes in meltwaters draining from a glacerised basin in the Karakoram Mountains: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 187-198, illus. incl. 1 table, sketch map, 34 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001173

Derksen, C. (University of Waterloo, Department of Geography, Waterloo, ON, Canada); Ledrew, E.; Walker, A. and Goodison, B.

Associations between the principal spatial modes of North American prairie snow water equivalent and low-frequency atmospheric circulation: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 199-210, illus. incl. 5 tables, sketch map, 27 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001174

Hardy, J. P. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Jordan, R.; Groffman, P. R.; Nolin, S.; Fahey, T. and Driscoll, C.

Snow depth and soil frost modelling in a northern hardwood forest: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 211-214, illus. incl. 1 table, 3 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada. CRREL Report No: ERDC/CRREL MP-02-5812

56001175

Hellstrom, R. A. (Ohio State University, Department of Geography, Columbus, OH).

Representation of forest cover in a physically based snowmelt model, Phase I: *in Proceedings of the fifty-sixth annual Eastern snow conference* (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 215-231, illus. incl. 1 table, 45 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001176

Jones, H. G. (INRS-Eau, Ste-Foy, PQ, Canada); Pomeroy, J. W.; Davies, T. D.; Tranter, M. and Marsh, P.

CO₂ in Arctic snow covers; landscape form, in-pack gas concentration gradients, and the implications for the estimation of gaseous fluxes: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 233-245, illus. incl. sketch map, 44 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001177

Martin, C. (Memorial University of Newfoundland, Department of Geography, St. John's, NF, Canada) and Richards, W.

Snow cover climate of the Maritime Provinces of Canada: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 247-267, illus. incl. 4 tables, sketch maps, 5 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001178

Pomeroy, J. W. (National Hydrology Research Centre, Saskatoon, SK, Canada) and Essery, R.

Turbulent fluxes during blowing snow; field tests of model sublimation: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 269-280, illus. incl. 2 tables, 31 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001179

Tang, P. (New Brunswick Department of Environment, Saint John River Forecast Centre, Fredericton, NB, Canada); Price, R. and Howe, M.

The Saint John River forecast system; an integrated approach: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 281-298, illus. incl. 5 tables, sketch map, 13 ref., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada.

56001180

Taylor, Susan (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Feng, X.; Osterhuber, R.; Kirchner, J. W.; Klaue, B. and Renshaw, C.

The isotopic evolution of snow and its melt [abstr.]: *in* Proceedings of the fifty-sixth annual Eastern snow conference (Taylor, Susan, editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 56, p. 299, illus., 1999. *Meeting:* June 2-4, 1999, Fredericton, NB, Canada. CRREL Report No: ERDC/CRREL MP-02-5768

56001338

Walsh, Marianne E. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

Determination of nitroaromatic, nitramine, and nitrate ester explosives in soil by gas chromatography and an electron capture detector: **Talanta (Oxford)**, 54, p. 427-438, illus. incl. 3 tables, 24 ref., 2001. CRREL Report No: ERDC/CRREL MP-02-5774

56001339

Jenkins, Thomas F. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Leggett, Daniel C.; Miyares, Paul H.; Walsh, Marianne E.; Ranney, Thomas A.; Cragin, James H. and George, Vivian.

Chemical signatures of TNT-filled land mines: **Talanta (Oxford)**, 54, p. 501-513, illus. incl. 3 tables, 13 ref., 2001. CRREL Report No: ERDC/CRREL MP-02-5773

56001475

Tyuryakov, A. B.

Feasibility of long-term forecasting of summer ice conditions in the south-western part of the Kara Sea: Rep. No. T-904-13, 7 p., illus. incl. 5 tables, 3 ref., 19???. Available from: U. S. Cold Regions Research and Engineering Laboratory, Hanover, NH, United States. Translated from the Russian; for original see 47003596.

56001476

Nicolaev, S. Y. and Speransky, D. A.

Experience of short-term numerical forecasting of summer ice conditions in the south-western part of the Kara Sea: Rep. No. T-904-12, 6 p., 9 ref., 19???. Available from: U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, United States. Translated from the Russian; for original see 47003595.

56001477

Mironov, E. U. and Kuznetsov, I. M.

Some features of spatial non-uniformity of thickness of fast and drifting ice: Rep. No. T-904-05, 12 p., illus. incl. 6 tables, 8 ref., 19???. Available from: U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, United States. Translated from the Russian; for original see 47003588.

56001480

Macshatas, A. P. and Ivanov, B. V.

Spatial-temporal variability of ice cover characteristics within its seasonal migration zone: Rep. No. T-903-08, 10 p., illus., 13 ref., 19???. Available from: U. S. Cold Regions Research and Engineering Laboratory, Hanover, NH, United States. Translated from Russian; for original see 45001636.

56001481

Kuznetsov, I. M.

On feasibility of forecasting the Greenland Sea ice edge position up to 30 days in advance: Rep. No. T-904-10, 4 p., 9 ref., 19???. Available from: U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, United States. Translated from the Russian; for original see 47003593.

56001482

Alexeyev, Yu. N. and Sazonov, K. E.

A method of calculating resistance of ice to ship motion: Rep. No. T-841-04, 9 p., 14 ref., 19???. Available from: U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, United States. Translated from Russian; Trans. from Problems of Shipbuilding; Issue 41, 1984, Leningrad.

56001493

Chong, Asa.

Sediment trap records of deposition in Lallemand Fjord adjacent to Muller Ice Shelf, Antarctic Peninsula: 105 p., illus. incl. 3 tables, sketch maps, 77 ref., Master's, July 2000, Queen's University, Kingston, ON, Canada. ISBN: 0-612-52887-1 microfiche *Available from:* Univ. Microfilms. Includes appendices.

56001510

Jeffries, Martin O. (University of Alaska, Geophysical Institute, Fairbanks, AK) and Eicken, H., editors.

Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere: **Annals of Glaciology**, 33, 608 p., illus. incl. sketch maps, tables, 2001. ISBN: 0-946417-28-8. *Meeting:* June 19-23, 2000, Fairbanks, AK. Individual papers are cited separately.

56001511

Kawamura, T. (Hokkaido University, Institute of Low Temperature, Hokkaido, Japan); Shirasawa, K.; Ishikawa, N.; Lindfors, A.; Rassmus, K.; Granskog, M. A.; Ehn, J.; Lepparanta, Matti; Martma, T. and Vaikamae, R.

Time-series observations of the structure and properties of brackish ice in the Gulf of Finland: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 1-4, illus. incl. sketch map, 15 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001512

Jones, Stephen J. (National Research Council of Canada, Institute for Marine Dynamics, St. John's, NF, Canada) and Hill, Brian T.

Structure of sea ice in McMurdo Sound, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 5-12, illus. incl. 2 tables, 20 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001513

Tison, J. L. (Université Libre de Bruxelles, Département des Sciences de la Terre et de l'Environnement, Brussels, Belgium) and Verbeke, V.

Chlorinity/salinity distribution patterns in experimental granular sea ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 13-20, illus. incl. 1 table, 21 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001514

Smith, Inga J. (University of Otago, Department of Physics, Dunedin, New Zealand); Langhorne, Patricia J.; Haskell, Timothy G.; Trodahl, H. Joe; Frew, Russell and Vennell, M. Ross.

Platelet ice and the land-fast sea ice of McMurdo Sound, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 21-27, illus. incl. 2 tables, 26 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001515

Golden, K. M. (University of Utah, Department of Mathematics, Salt Lake City, UT).

Brine percolation and the transport properties of sea ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 28-36, illus., 82 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001516

Maksym, Ted (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK) and Jeffries, Martin O.

Phase and compositional evolution of the flooded layer during snow-ice formation on Antarctic sea ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 37-44, illus. incl. 2 tables, 27 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001517

Lytle, V. I. (Antarctic CRC, Hobart, Tasmania, Australia) and Ackley, Stephen F.

Snow-ice growth; a fresh-water flux inhibiting deep convection in the Weddell Sea, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 45-50, illus. incl. 1 table, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001518

Jeffries, Martin O. (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK); Krouse, H. Roy; Hurst-Cushing, Barbara and Maksym, Ted.

Snow-ice accretion and snow-cover depletion on Antarctic first-year sea-ice floes: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 51-60, illus. incl. 3 tables, 40 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001519

Morris, Kim (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK) and Jeffries, Martin O.

Seasonal contrasts in snow-cover characteristics on Ross Sea ice floes: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 61-68, illus. incl. sketch map, 20 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001520

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

The seasonal cycle of ERS scatterometer signatures over perennial Antarctic sea ice and associated surface ice properties and processes: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 69-73, illus. incl. 1 table, 18 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001521

Anderson, Mark R. (University of Nebraska, Department of Geosciences, Lincoln, NE) and Drobot, Sheldon D.

Spatial and temporal variability in snowmelt onset over Arctic sea ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 74-78, illus. incl. 4 tables, sketch map, 18 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001522

Drobot, Sheldon D. (University of Nebraska, Department of Geosciences, Lincoln, NE) and Anderson, Mark R.

Comparison of interannual snowmelt-onset dates with atmospheric conditions: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 79-84, illus. incl. 2 tables, sketch maps, 18 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001523

Forster, Richard R. (University of Utah, Department of Geography, Salt Lake City, UT); Long, David G.; Jezek, Kenneth C.; Drobot, Sheldon D. and Anderson, Mark R.

The onset of Arctic sea-ice snowmelt as detected with passive- and active-microwave remote sensing: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 85-93, illus. incl. sketch maps, 35 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001524

Paget, M. J. (University of Tasmania, Antarctic CRC, Hobart, Tasmania, Australia); Worby, Anthony P. and Michael, K. J.

Determining the floe-size distribution of East Antarctic sea ice from digital aerial photographs: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 94-100, illus. incl. 1 table, 10 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001525

Meier, Walter N. (U. S. National Ice Center, Washington, DC); Van Woert, Michael L. and Bertoia, Cheryl.

Evaluation of operational SSM/I ice-concentration algorithms: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 102-108, illus. incl. 1 table, sketch maps, 23 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001526

Kern, Stefan (Institute of Environmental Physics, Bremen, Federal Republic of Germany) and Heygster, Georg.

Sea-ice concentration retrieval in the Antarctic based on the SSM/I 85.5 GHz polarization: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 109-114, illus. incl. 1 table, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001527

Matsuoka, Takeshi (Communications Research Laboratory, Applied Research and Standards Division, Tokyo, Japan); Uratsuka, Seiho; Satake, Makoto; Kobayashi, Tatsuharu; Nadai, Akitsugu; Umehara, Toshihiko; Maeno, Hideo; Wakabayashi, Hiroyuki; Nakamura, Kazuki and Nishio, Fumihiko.

CRL/NASDA airborne SAR (Pi-SAR) observations of sea ice in the Sea of Okhotsk: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 115-119, illus., 6 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001528

Wakabayashi, Hiroyuki (National Space Development Agency of Japan, Earth Observation Center, Tokyo, Japan); Matsuoka, Takeshi; Nakamura, Kazuki and Nishio, Fumihiko.

Estimation of sea-ice physical parameters using polarimetric SAR; results from Okhotsk and Lake Saroma campaign: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 120-124, illus. incl. 1 table, 15 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001529

Drinkwater, Mark R. (Jet Propulsion Laboratory, Pasadena, CA); Liu, Xiang and Harms, Sabine.

Combined satellite- and ULS-derived sea-ice flux in the Weddell Sea, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 125-132, illus. incl. 1 table, sketch maps, 33 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001530

Zhao, Yunhe (NASA, Goddard Space Flight Center, Oceans and Ice Branch, Greenbelt, MD) and Liu, Antony K.

Principal-component analysis of sea-ice motion from satellite data: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 133-138, illus. incl. sketch maps, 15 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001531

Heil, P. (University of Tasmania, Antarctic CRC, Tasmania, Australia); Fowler, C. W.; Maslanik, J. A.; Emery, W. J. and Allison, Ian.

A comparison of East Antarctic sea-ice motion derived using drifting buoys and remote sensing: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 139-144, illus. incl. 1 table, sketch map, 16 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001532

Meier, Walter N. (National Ice Center, Washington, DC) and Maslanik, James A.

Synoptic-scale ice motion case-studies using assimilated motion fields: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 145-150, illus., 30 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001533

Lepparanta, Matti (University of Helsinki, Department of Geophysics, Helsinki, Finland); Zhang Zhanhai; Haapala, Jari and Stipa, Tapani.

Sea-ice kinematics measured with GPS drifters: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 151-156, illus., 15 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001534

Hibler, W. D., III (University of Alaska at Fairbanks, International Arctic Research Center, Fairbanks, AK).

Modeling the formation and evolution of oriented fractures in sea ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 157-164, illus., 20 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001535

Wadhams, P. (University of Cambridge, Scott Polar Research Institute, Cambridge, United Kingdom) and Davis, N. R.

Arctic sea-ice morphological characteristics in summer 1996: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 165-170, illus. incl. 1 table, sketch map, 5 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001536

Perovich, Donald K. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Richter-Menge, Jacqueline A. and Tucker, Walter B., III.

Seasonal changes in Arctic sea-ice morphology: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 171-176, illus., 26 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5800

56001537

Worby, Anthony P. (University of Tasmania, Antarctic Division, Hobart, Tasmania, Australia); Bush, G. M. and Allison, Ian.

Seasonal development of the sea-ice thickness distribution in East Antarctica; measurements from upward-looking sonar: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 177-180, illus. incl. 1 table, 28 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001538

Steiner, Nadja (Institut für Meereskunde Kiel, Kiel, Federal Republic of Germany).

Introduction of variable drag coefficients into sea-ice models: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 181-186, illus., 26 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001539

Tin, Tina (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK) and Jeffries, Martin O.

Sea-ice thickness and roughness in the Ross Sea, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 187-193, illus. incl. 3 tables, 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001540

Eicken, H. (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK); Tucker, Walter B., III and Perovich, Donald K.

Indirect measurements of the mass balance of summer Arctic sea ice with an electromagnetic induction technique: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 194-200, illus. incl. 1 table, 20 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5801

56001541

Richter-Menge, Jacqueline A. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Perovich, Donald K. and Pegau, W. Scott.

Summer ice dynamics during SHEBA and its effect on the ocean heat content: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 201-206, illus., 31 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5802

56001542

Perovich, Donald K. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Elder, Bruce C.

Temporal evolution of Arctic sea-ice temperature: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 207-211, illus. incl. 1 table, 17 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5803

56001543

Sturm, Matthew (U. S. Army Cold Regions Research and Engineering Laboratory, Wainwright, AK); Holmgren, Jon and Perovich, Donald K.

Spatial variations in the winter heat flux at SHEBA; estimates from snow-ice interface temperatures: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 213-220, illus. incl. 2 tables, 19 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5804

56001544

Pegau, W. Scott (Oregon State University, College of Oceanic and Atmospheric Sciences, Corvallis, OR) and Paulson, Clayton A.

The albedo of Arctic leads in summer: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 221-224, illus., 9 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001545

Lindsay, R. W. (University of Washington, Applied Physics Laboratory, Seattle, WA). Arctic sea-ice albedo derived from RGPS-based ice-thickness estimates: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 225-229, illus. incl. sketch map, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001546

Toyota, Takenobu (Hokkaido University, Institute of Low Temperature, Hokkaido, Japan) and Wakatsuchi, Masaaki.

Characteristics of the surface heat budget during the ice-growth season in the southern Sea of Okhotsk: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 230-236, illus. incl. 1 table, sketch maps, 18 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001547

Launiainen, Jouko (Finnish Institute of Marine Research, Helsinki, Finland); Cheng, Bin; Uotila, Juha and Vihma, Timo.

Turbulent surface fluxes and air-ice coupling in the Baltic Air-Sea-Ice Study (BASIS): *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 237-242, illus. incl. sketch maps, 29 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001548

Cheng, Bin (Finnish Institute of Marine Research, Helsinki, Finland); Launiainen, Jouko; Vihma, Timo and Uotila, Juha.

Modelling sea-ice thermodynamics in BALTEX-BASIS: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 243-247, illus. incl. 2 tables, 17 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001549

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

Spatial variability of the sea-ice radiation budget and its effect on aggregate-area fluxes: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 248-252, illus. incl. 2 tables, sketch map, 12 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001550

Ukita, Jinro (Lamont-Doherty Earth Observatory, Palisades, NY) and Martinsson, Douglas G.

An efficient adjustable-layering thermodynamic sea-ice model formulation for high-frequency forcing: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 253-260, illus. incl. 1 table, 21 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001551

McGuinness, M. J. (Victoria University of Wellington, School of Mathematical and Computing Science, Wellington, New Zealand); **Landman, K. A.**; **Trodahl, H. J.** and **Pantoja, A. E.**

Solar radiative heating in first-year sea ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 261-266, illus., 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001552

Zhou, Xiaobing (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK); **Li, Shusun** and **Morris, Kim**.

Measurement of all-wave and spectral albedos of snow-covered summer sea ice in the Ross Sea, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 267-274, illus. incl. 3 tables, sketch map, 32 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001553

Wendler, Gerd (University of Alaska at Fairbanks, Geophysical Institute, Fairbanks, AK) and **Worby, Anthony P.**

The surface energy budget in the Antarctic summer sea-ice pack: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 275-279, illus. incl. sketch map, 11 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001554

Fritsen, Christian H. (Desert Research Institute, Division of Earth and Ecosystem Sciences, Reno, NV); **Coale, Susan L.**; **Neenan, Diann R.**; **Gibson, Angela H.** and **Garrison, David L.**

Biomass, production and microhabitat characteristics near the freeboard of ice floes in the Ross Sea, Antarctica, during the austral summer: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 280-286, illus. incl. 3 tables, sketch map, 31 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001555

Günther, Sven (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany) and **Dieckmann, Gerhard S.**

Vertical zonation and community transition of sea-ice diatoms in fast ice and platelet layer, Weddell Sea, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 287-296, illus. incl. 3 tables, sketch maps, 55 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001556

Thomas, David N. (University of Wales, School of Ocean Sciences, Anglesey, United Kingdom); **Kattner, Gerhard**; **Engbrodt, Ralph**; **Giannelli, Virginia**; **Kennedy, Hilary**; **Haas, Christian** and **Dieckmann, Gerhard S.**

Dissolved organic matter in Antarctic sea ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 297-303, illus. incl. 1 table, 50 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001557

Jungle, Karen (University of Washington, Astrobiology Program, Seattle, WA); Krembs, Christopher; Deming, Jody; Stierle, Aaron and Eicken, Hajo.

A microscopic approach to investigate bacteria under *in situ* conditions in sea-ice samples: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 304-310, illus. incl. 1 table, 25 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001558

Granskog, M. A. (University of Helsinki, Department of Geophysics, Helsinki, Finland) and Virkanen, J.

Observations on sea-ice and surface-water geochemistry implications for importance of sea ice in geochemical cycles in the northern Baltic Sea: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 311-316, illus. incl. 1 table, sketch map, 30 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001559

Giannelli, Virginia (University of Wales, School of Ocean Sciences, Anglesey, United Kingdom); Thomas, David N.; Haas, Christian; Kattner, Gerhard; Kennedy, Hilary and Dieckmann, Gerhard S.

Behaviour of dissolved organic matter and inorganic nutrients during experimental sea-ice formation: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 317-321, illus. incl. 3 tables, 29 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001560

Chung, Hyuck (University of Auckland, Mathematics Department, Auckland, New Zealand) and Fox, Colin.

Calculation of wave propagation into land-fast ice: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 322-326, illus., 12 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001561

Squire, Vernon A. (University of Otago, Department of Mathematics and Statistics, Dunedin, New Zealand) and Dixon, Tony W.

How a region of cracked sea ice affects ice-coupled wave propagation: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 327-332, illus., 10 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001562

Langhorne, Patricia J. (University of Otago, Department of Physics, Dunedin, New Zealand); Squire, V. A.; Fox, C. and Haskell, Timothy G.

Lifetime estimation for a land-fast ice sheet subjected to ocean swell: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 333-338, illus., 21 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56001563

Fox, Colin (University of Auckland, Mathematics Department, Auckland, New Zealand); Haskell, Timothy G. and Chung, Hyuck.

Dynamic, in situ measurement of sea-ice characteristic length: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 339-344, illus., 18 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001564

Downer, Josh (University of Otago, Department of Mathematics and Statistics, Dunedin, New Zealand) and Haskell, Timothy G.

Ice-floe kinematics in the Ross Sea marginal ice zone using GPS and accelerometers: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 345-349, illus., 9 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001565

Fox, Colin (University of Auckland, Mathematics Department, Auckland, New Zealand) and Haskell, Timothy G.

Ocean wave speed in the Antarctic marginal ice zone: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 350-354, illus., 6 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001566

Hopkins, Mark A. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover) and Shen, Hayley H.

Simulation of pancake-ice dynamics in a wave field: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 355-360, illus. incl. 1 table, 10 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5805

56001567

Shen, Hayley H. (Clarkson University, Department of Civil and Environmental Engineering, Potsdam, NY); Ackley, Stephen F. and Hopkins, Mark A.

A conceptual model for pancake-ice formation in a wave field: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 361-367, illus., 26 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5806

56001568

Lytle, V. I. (Antarctic CRC, Hobart, Tasmania, Australia); Worby, Anthony P.; Massom, R.; Paget, M. J.; Allison, Ian; Wu, X. and Roberts, A.

Ice formation in the Mertz Glacier polynya, East Antarctica, during winter: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 368-372, illus. incl. 2 tables, 11 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001569

Dmitrenko, I. (Arctic and Antarctic Research Institute, Saint Petersburg, Russian Federation); Holemann, J. A.; Tyshko, K.; Churus, V.; Kirillov, S. and Kassens, Heidemarie.

The Laptev Sea flaw polynya, Russian Arctic; effects on the mesoscale hydrography: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 373-376, illus. incl. 1 table, sketch map, 13 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001570

Roberts, Andrew (Antarctic CRC, Hobart, Tasmania, Australia); Allison, Ian and Lytle, Victoria I.

Sensible- and latent-heat-flux estimates over the Mertz Glacier polynya, East Antarctica, from in-flight measurements: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 377-384, illus. incl. 1 table, 21 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001571

Toudal, Leif (Technical University of Denmark, Danish Centre for Remote Sensing, Lyngby, Denmark) and Coon, Max D.

Interannual variability of the sea-ice-induced salt flux in the Greenland Sea: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 385-390, illus. incl. sketch maps, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001572

Masson, R. A. (Antarctic CRC, Hobart, Tasmania, Australia); Hill, K. L.; Lytle, V. I.; Worby, Anthony P.; Paget, J. J. and Allison, Ian.

Effects of regional fast-ice and iceberg distributions on the behaviour of the Mertz Glacier polynya, East Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 391-398, illus. incl. sketch maps, 8 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001573

Bindhoff, N. L. (University of Tasmania, Antarctic CRC, Hobart, Tasmania, Australia); Williams, G. D. and Allison, Ian.

Sea-ice growth and water-mass modification in the Mertz Glacier polynya, East Antarctica, during winter: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 399-4006, illus. incl. 3 tables, 23 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001574

Van Woert, Michael L. (NOAA/NESDIS/ORA, Camp Springs, MD); Meier, Walter N.; Zou, Cheng-Zhi; Pellegrini, Andrea; Grigioni, Paolo and Bertoia, Cheryl.

Satellite observations of upper-ocean currents in Terra Nova Bay, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 407-412, illus. incl. 1 table, sketch maps, 27 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001575

Wilson, K. J. (Meteorological Service of Canada, Canadian Ice Service, Ottawa, ON, Canada); King, D. J. and Barker, D. G.

A case-study in tracking 1998 polynya ice dynamics in Smith Sound, North Water polynya region, Canadian Arctic, using RADARSAT-1 data: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 413-418, illus. incl. 1 table, sketch maps, 11 ref., 2001.

Meeting: June 19-23, 2000, Fairbanks, AK.

56001576

Timmermann, R. (Alfred Wegner Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany); Beckmann, A. and Hellmer, H. H.

The role of sea ice in the fresh-water budget of the Weddell Sea, Antarctica: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 419-424, sketch maps, 29 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001577

Ackley, Stephen F. (Clarkson University, Department of Civil and Environmental Engineering, Potsdam); Geiger, C. A.; King, J. C.; Hunke, E. C. and Comiso, J.

The Ronne polynya of 1997/98; observations of air-ice-ocean interaction: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 425-429, illus. incl. sketch maps, 10 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001578

Haarpaintner, Jorg (Norwegian Polar Institute, Polarmiljøsenteret, Tromso, Norway); Haugan, Peter M. and Gascard, Jean-Claude.

Interannual variability of the Storfjorden (Svalbard) ice cover and ice production observed by ERS-2 SAR: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 430-436, illus. incl. sketch map, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001579

Haarpaintner, Jorg (Norwegian Polar Institute, Tromso, Norway); O'Dwyer, Jane; Gascard, Jean-Claude; Haugan, Peter M.; Schauer, Ursula and Osterhus, Svein.

Seasonal transformation of water masses, circulation and brine formation observed in Storfjorden, Svalbard: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 437-443, illus. incl. sketch map, 17 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001580

Walsh, John E. (University of Illinois, Department of Atmospheric Sciences, Urbana, IL) and Chapman, William L.

20th-century sea-ice variations from observational data: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 444-448, sketch maps, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001581

Tateyama, Kazutaka (Kitami Institute of Technology, Department of Civil Engineering, Kitami, Japan) and Enomoto, Hiroyuki.

Observation of sea-ice thickness fluctuation in the seasonal ice-covered area during 1992-99 winters: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 449-456, illus. incl. 1 table, sketch map, 16 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001582

Comiso, Josefino C. (NASA, Goddard Space Flight Center, Oceans and Ice Branch, Greenbelt, MD).

Satellite-observed variability and trend in sea-ice extent, surface temperature, albedo and clouds in the Arctic: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 457-473, illus. incl. sketch maps, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001583

Reeh, Niels (Technical University of Denmark, Department of Electromagnetic Systems, Lyngby, Denmark); Thomsen, Henrik Hojmark; Higgins, Anthony K. and Weidick, Anker.
Sea ice and the stability of North and Northeast Greenland floating glaciers: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 474-480, sketch maps, 25 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001584

Wang, Jia (University of Alaska at Fairbanks, International Arctic Research Center-Frontier Research System for Global Change, Fairbanks, AK) and Ikeda, Moto.

Arctic sea-ice oscillation; regional and seasonal perspectives: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 481-492, illus. incl. 8 tables, sketch maps, 45 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001585

Smith, Raymond C. (University of California at Santa Barbara, Institute of Computational Earth System Science, Santa Barbara, CA) and Stammerjohn, Sharon E.

Variations of surface air temperature and sea-ice extent in the western Antarctic Peninsula region: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 493-500, illus. incl. sketch map, 38 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK. Palmer LTER Contrib. No. 199.

56001586

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

Sea ice, as the glacial cycles' climate switch, and interhemispheric thermohaline teleconnections: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 501-506, illus., 50 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001587

Jeffers, Sharon (Environment Canada, Canadian Ice Service, Ottawa, ON, Canada); Agnew, Tom A.; Alt, Bea Taylor; de Abreu, Roger and McCourt, Steve.

Investigating the anomalous sea-ice conditions in the Canadian High Arctic (Queen Elizabeth Islands) during summer 1998: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 507-512, illus. incl. sketch maps, 13 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001588

Nazarenko, Larissa (NASA, Goddard Institute of Space Studies, New York, NY); Hansen, James; Tausnev, Nikolai and Ruedy, Reto.

Response of the Northern Hemisphere sea ice to greenhouse forcing in a global climate model: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 513-520, illus. incl. sketch maps, 34 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001589

Weatherly, John W. (U. S. Cold Regions Research Engineering Laboratory, Hanover, NH) and Arblaster, Julie M.

Sea ice and climate in 20th- and 21st-century simulations with a global atmosphere-ocean-ice model: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 521-524, illus. incl. 1 table, sketch map, 16 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK. CRREL Report No: ERDC/CRREL MP-02-5807

56001590

Goosse, H. (Université Catholique de Louvain, Institut d'Astronomie et de Géophysique G. Lemaître, Louvain-la-Neuve, Belgium); Selten, F. M.; Haarsma, R. J. and Opsteegh, J. D.

Decadal variability in high northern latitudes as simulated by an intermediate-complexity climate model: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 525-532, illus. incl. sketch maps, 36 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001591

Görgen, K. (University of Trier, Department of Climatology, Trier, Federal Republic of Germany); Bareiss, J.; Helbig, A.; Rinke, A. and Dethloff, K.

An observational and modelling analysis of Laptev Sea (Arctic Ocean) ice variations during summer: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 533-538, illus. incl. 2 tables, sketch maps, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001592

Zhang, Xuxia (Naval Postgraduate School, Department of Oceanography, Monterey, CA) and Semtner, Albert J.

The Antarctic circumpolar wave in a global, high-resolution, coupled ice-ocean model: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 539-544, illus., 24 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001594

Proshutinsky, Andrey (University of Alaska at Fairbanks, Institute of Marine Science, Fairbanks, AK); Johnson, Mark and Proshutinsky, Tatiana.

Understanding climatic controls on sea-ice transport pathways in the Arctic Ocean: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 551-554, sketch maps, 10 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001595

Haapala, Jari (University of Helsinki, Department of Geophysics, Helsinki, Finland); Juottonen, Arja; Marnela, Marika; Lepparanta, Matti and Tuomenvirta, Heikki.

Modelling the variability of the sea-ice conditions in the Baltic Sea under different climate conditions: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 555-559, illus. incl. sketch maps, 21 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001596

Nazarenko, Larissa (NASA, Goddard Institute for Space Studies, Center for Climate Systems Research, New York, NY) and Tausnev, Nickolai.

Modeling of the Beaufort ice-ocean climatology change: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 560-566, illus. incl. sketch map, 38 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001597

Aksenov, Ye. (Southampton Oceanography, James Rennel Division, Southampton, United Kingdom) and Coward, A. C.

The Arctic ocean circulation as simulated in a very high-resolution global ocean model (OCCAM): *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 567-576, illus. incl. 1 table, sketch map, 25 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001598

Wu, Xingren (Antarctic CRC, Australian Antarctic Division, Hobart, Tasmania, Australia); Budd, W. F.; Worby, Anthony P. and Allison, Ian.

Sensitivity of the Antarctic sea-ice distribution to ocean heat flux in a coupled atmosphere-sea-ice model: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 577-584, 3 tables, sketch maps, 38 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56001599

Turner, John (British Antarctic Survey, Natural Environment Research Council, Cambridge, United Kingdom); Connolley, William; Cresswell, Doug and Harangozo, Stevens.

The simulation of Antarctic sea ice in the Hadley Centre Climate Model (HADCM3): *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 585-591, illus. incl. 1 table, sketch maps, 19 ref., 2001. *Meeting:* June 19-23, 2000, Fairbanks, AK.

56002399

Larter, Nicholas C. (Government of the Northwest Territories, Department of Resources, Wildlife, and Economic Development, Inuvik, NT, Canada) and Nagy, John A.

Variation between snow at Peary caribou and muskox feeding sites and elsewhere in foraging habitats on Banks Island in the Canadian High Arctic: **Arctic, Antarctic, and Alpine Research**, 33(2), p. 123-130, illus. incl. 3 tables, geol. sketch map, 48 ref., May 2001.

56002400

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

Snowpack characteristics following wildlife on a simulated transport corridor and adjacent sub-arctic forest, Tulita, N.W.T., Canada: **Arctic, Antarctic, and Alpine Research**, 33(2), p. 131-139, illus. incl. 1 table, geol. sketch map, 27 ref., May 2001.

56002401

Klene, Anna E. (University of Delaware, Department of Geography and Center for Climatic Research, Newark, DE); Nelson, Frederick E.; Shikomanov, Nikolay I. and Hinkel, Kenneth M.

The N-factor in natural landscapes; variability of air and soil-surface temperatures, Kuparuk River basin, Alaska, U.S.A.: **Arctic, Antarctic, and Alpine Research**, 33(2), p. 140-148, illus. incl. 4 tables, geol. sketch map, 57 ref., May 2001.

56002402

Wastl, Maria (University of Bremen, Department of Physical Geography, Innsbruck, Austria); Stötter, Johann and Caseldine, Chris.

Reconstruction of Holocene variations of the upper limit of tree or shrub birch growth in northern Iceland based on evidence from Vesturardalur-Skidalur, Trollaskagi: **Arctic, Antarctic, and Alpine Research**, 33(2), p. 191-203, illus. incl. strat. cols., 2 tables, geol. sketch maps, 54 ref., May 2001.

56002403

Williams, Meredith (University of Newcastle, Department Geomatics, Newcastle upon Tyne, United Kingdom) and Dowdeswell, Julian A.

Historical fluctuations of the Matusevich Ice Shelf, Severnaya Zemlya, Russian high arctic: **Arctic, Antarctic, and Alpine Research**, 33(2), p. 211-222, illus. incl. 2 tables, geol. sketch maps, 56 ref., May 2001.

56002572

Kotlyakov, V. M. (Rossiiskaia Akademiia Nauk, Institut Geografii, Moscow, Russian Federation).

Vremennye ryady parametrov, poluchennykh po ledyanomu kernu skvazhiny so stantsii Vostok v Antarktide [Time series parameters derived from Vostok Station ice cores, Antarctica]: **Materialy Glyatsiologicheskikh Issledovanii**, 90, p. 149-155 (English sum.), illus. incl. 1 table, 8 ref., 2001.

56002574

**Arkhipov, S. M. (Rossiiskaia Akademii Nauk, Institut Geografii, Russian Federation);
Mikhailenko, V. N.; Tompson, L. G.; Zagorodnov, V. S.; Kunakhovich, M. G.; Smirnov, K.
E.; Makarov, A. V. and Kuznetsov, M. P.**

Stratigrafia deiatel'nogo sloia lednikovogo kupola Vetryny na o. Greem-Bell, Zemlya
Frantsa-Iosifa [Stratigraphy of active layer of Vetryny ice cap, Graham Bell Island, Franz Josef
Land]: **Materialy Glyatsiologicheskikh Issledovanii**, 90, p. 169-186 (English sum.), illus. incl.
3 tables, 15 ref., 2001.

56002575

**Kotlyakov, V. M. (Rossiiskaia Akademii Nauk, Institut Geografii, Russian Federation);
Maikov, I. L. and Sheinshtein, A. S.**

Matematicheskai model' "ob'eminogo" taisanii snera [Mathematical model of "in-volume" snow
melting]: **Materialy Glyatsiologicheskikh Issledovanii**, 90, p. 187-192 (English sum.), illus., 13
ref., 2001.

56002576

**Osipova, G. B. (Rossiiskaia Akademii Nauk, Institut Geografii, Russian Federation) and
Tsvetkov, D. G.**

Dinamika pul'siruiushchikh lednikov Gando i Dorofeeva v 1972-1991 gg [Dynamics of pulsating
glaciers Gando and Dorofeev in 1972-1991]: **Materialy Glyatsiologicheskikh Issledovanii**, 90,
p. 193-198 (English sum.), illus., 8 ref., 2001.

56002577

**Nikolaev, V. I. (Moskovksii Gosudarstvenny Universitet im. M. V. Lomonosova,
Geograficheskii Fakul'tet, Moscow, Russian Federation); Fedorov, V. M. and Petrova, S. N.**
Nauchno-sportivanaia ekspeditsia "millennium" (izotopno-geokhimicheskie issledovaniia po
marshrutu Petriot Khills-Iuzhnnyy polyus) ["Millenium" research and adventure expedition (iso-
tope-geochemical studies along traverse Patriot Hills-South Pole]: **Materialy
Glyatsiologicheskikh Issledovanii**, 90, p. 199-201 (English sum.), illus., 10 ref., 2001.

56002578

Sosnovskii, A. V. (Rossiiskaia Akademii Nauk, Institut Geografii, Russian Federation).
O primenimosti avtomodel'nogo reshenii k otsenke vliianiia parametrov snezhnogo pokrova na
promerzanie gruntov [Application of automatic model solution to problem of effect of snow
cover parameters on soil freezing]: **Materialy Glyatsiologicheskikh Issledovanii**, 90, p. 202-205
(English sum.), illus., 10 ref., 2001.

56002579

**Popov, S. V. (Polyarnaia Morskaia Geologorazvedochnaia Ekspeditsiia, Russian Federa-
tion); Mironov, A. V.; Sheremet'ev, A. N. and Luchininov, V. S.**

Izmerenie srednei skorosti raxprostaneniia elektromagnitnykh voln v lednike v rayone strantsii
Vostok [Measurements of electromagnetic wave velocity in glacier at Vostok Station area]:
Materialy Glyatsiologicheskikh Issledovanii, 90, p. 206-208 (English sum.), illus., 10 ref.,
2001.

56002580

Popov, S. V. (Polyarnaia Morskaia Geologorazvedochnaia Ekspeditsiia, Russian Federation) and Luchininov, V. S.

Uchet uglov naklona dnevnoi poverkhnosti i lozha lednika pri provedenii radiolokatsionnykh issledovanii; dvumernaia model' odnosloinogo lednika [Considering glacier surface and bedrock slope incline in radio-echo sounding studies; two-dimensional model of one-layered glacier]: **Materialy Glyatsiologicheskikh Issledovanii**, 90, p. 209-214 (English sum.), illus., 18 ref., 2001.

56002581

Ni, A. A. (Akademii Nauk Respubliki Uzbekistan, Institut Geologii i Geofiziki, Uzbekistan); Koldaev, A. A.; Tikhonovskaya, A. A.; Petrov, M. A.; Tsekh, V. and Boimler, R.

Evolyutsiya mineral'nogo sostava morennnykh otlozhenii nival'noi zony [Change of mineral composition of till deposits in nival zone]: **Materialy Glyatsiologicheskikh Issledovanii**, 90, p. 215-216 (English sum.), 2 ref., 2001.

56002583

Nikolaev, V. I. (Rossiiskaia Akademii Nauk, Institut Geografii, Russian Federation); Zhenoni, L.; Gribchenko, Iu. N.; Iakumin, P.; Kurenkova, E. I.; Longinelli, A.; Mikhalev, D. V.; Nikol'skii, P. A.; Petrova, S. N. and Sulerzhitskii, L. D.

Evolyutsiya prirodnoi sredy Severnoi Evrazii v pozdnem pleistotsene po izotopnym dannym [Environmental change in northern Eurasia in upper Pleistocene based on isotopic data]: *in Materialy XII glyatsiologicheskogo simpoziuma, Materialy Glyatsiologicheskikh Issledovanii*, 90, p. 3-11 (English sum.), 49 ref., 2001. *Meeting*: 1999, Russian Federation.

56002587

Rudoi, A. N. (Tomskii Gosudarstvenny Pedagogicheskii Universitet, Tomsk, Russian Federation).

Chetvertichnye ledoemy Iuzhnoi Sibiri [Quaternary "ice reservoirs" of southern Siberia]: *in Materialy XII glyatsiologicheskogo simpoziuma, Materialy Glyatsiologicheskikh Issledovanii*, 90, p. 40-49 (English sum.), illus., 31 ref., 2001. *Meeting*: 1999, Russian Federation.

56002590

Ekaikin, A. A. (Arkticheskii i Antarkticheskii Nauchno-Issledovatel'skii Institut, Saint Petersburg, Russian Federation); Lipenkov, V. Ia.; Barkov, N. I.; Petit, J. R. and Masson, V. Izotopnyy sostav poverkhnostnogo sloia snezhnoi tolshchi v rayone stantsii Vostok, Pentral'naia Antarktida [Isotope composition of upper part of snow cover layer at Vostok Station area, central Antarctica]: *in Materialy XII glyatsiologicheskogo simpoziuma, Materialy Glyatsiologicheskikh Issledovanii*, 90, p. 69-79 (English sum.), illus. incl. 1 table, 39 ref., 2001.

Meeting: 1999, Russian Federation.

56002591

Zakharov, V. G.

Otsenka obshchikh tendentsii kolebanii shel'fovykh i vyvodnykh lednikov Antarktidy za poslednie 100 let [Assessment of general trends in variations of Antarctic ice sheet and outlet glaciers for the last 100 years]: *in Materialy XII glyatsiologicheskogo simpoziuma, Materialy Glyatsiologicheskikh Issledovanii*, 90, p. 80-85 (English sum.), illus. incl. 1 table, 24 ref., 2001. *Meeting*: 1999, Russian Federation.

56002709

Anonymous.

Ov"edinenny Chetveryy simpozium; sektsiia glyatsiologii [IV joint symposium; section of glaciology]: **Geofizicheskii Byulleten'**—**Geophysical Bulletin**, 14, p. 212-216, 1964.

56002781

Sevruk, B. (ETH, Institut für Klimaforschung, Zurich, Switzerland) and Caflisch, A., editors.

Hydrologische bibliographie der Schweiz für das Jahr 1999 [Hydrology bibliography of Switzerland for the year 1999]: **Bibliographia Scientiae Naturalis Helvetica**, 75, p. 137-169, 1999.

56002838

Norheim, Armann (Norwegian Air Traffic and Airport Management, Oslo, Norway);

Sinha, Nirmal K. and Yager, Thomas J.

Effects of the structure and properties of ice and snow on the friction of aircraft tyres on movement area surfaces: **Tribology International**, 34, p. 617-623, illus., 19 ref., 2001.

56002959

Green, Ken (New South Wales National Parks and Wildlife Service Snowy Mountain Region, Australia).

The importance of snow: **National Parks Journal**, 42(2), p. 15, April 1998.

56002982

Elder, Kelly, editor.

Proceedings of the Western snow conference; 69th annual meeting: **Proceedings of the Western Snow Conference**, 69, 140 p., illus., April 2001. *Meeting*: April 16-19, 2001, Sun Valley, Idaho. Individual papers are cited separately.

56002983

Carroll, Tom (National Oceanic and Atmospheric Administration, National Weather Service, Chanhassen, MN); Cline, Don; Fall, Greg; Nilsson, Anders; Li, Long and Rost, Andy. NOHRSC operations and the simulation of snow cover coterminous U.S.: *in Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor)*, **Proceedings of the Western Snow Conference**, 69, p. 1-10, illus. incl. 1 table, 14 ref., April 2001. *Meeting*: April 16-19, 2001, Sun Valley, Idaho.

56002984

Molotch, Noah P. (University of Arizona, Department of Hydrology and Water Resources, Tucson, AZ); Painter, Thomas H.; Colee, Michael T.; Rosenthal, Charles W.; Dozier, Jeff and Bales, Roger C.

Analysis of the spatial variability of snow cover depletion in an alpine watershed, Tokopah Basin, Sierra Nevada, California, U.S.A.: *in Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor)*, **Proceedings of the Western Snow Conference**, 69, p. 11-19, illus., 18 ref., April 2001. *Meeting*: April 16-19, 2001, Sun Valley, Idaho.

56002985

Schaefer, Garry L. (National Water and Climate Center, Hydromet Data Acquisition and Technology, Portland, OR) and Sytsma, Don.

Telemetry and the Internet: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 20-31, illus. incl. 4 tables, April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002986

Ingersoll, George P. (U. S. Geological Survey, Denver, CO); Tonnessen, Kathy A.; Campbell, Donald H.; Glass, Ben R. and Torizzo, Andres O.

Effects of storm trajectories on snowfall chemistry in Rocky Mountain National Park, Colorado: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 32-42, illus. incl. 1 table, sketch maps, 27 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002987

Painter, Thomas H. (University of California at Santa Barbara, Institute for Computational Earth System Science, Santa Barbara, CA); Duval, Brian; Thomas, William H.; Mendez, Maria; Heintzelman, Sarah and Dozier, Jeff.

Mapping snow algae concentration in the Sierra Nevada with imaging spectroscopy: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 43-50, illus., 14 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002988

Mote, Philip W. (University of Washington, Climate Impacts Group, Seattle, WA) and Hamlet, Alan F.

Anthropogenic climate change and snow in the Pacific Northwest: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 51-52, 5 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002989

Burak, Susan A. (Snow Survey Associates, Mammoth Lakes, CA) and Davis, Robert E.

Preliminary evaluation of snow accumulation patterns based on storm type, Mammoth Mountain, California, 1996-2001: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 53-58, illus. incl. 4 tables, 9 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho. CRREL Report No: ERDC/CRREL MP-02-5815

56002990

McCaughey, Ward W. (Montana State University, Bozeman, MT) and Farnes, Phillip E.

Snowpack comparison between an opening and a lodgepole pine stand: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 59-64, illus. incl. 2 tables, 13 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002991

Fassnacht, Steven R. (University of Arizona, Department of Hydrology and Resources, Tucson, AZ); Helfrich, S. R.; Lampkin, D. J.; Dressler, K. A.; Bales, Roger C.; Halper, E. B.; Reigle, Dallas and Imam, B.

Snowpack modelling of the Salt Basin with water management implications: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 65-76, illus. incl. 4 tables, sketch map, 9 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002992

Julander, Randall P. (U. S. Department of Agriculture, Natural Resource Conservation Service, Salt Lake City, UT) and Cleary, Sean.

Soil moisture data collection and water supply forecasting: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 77-84, illus., 14 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002993

Jeton, Anne E. (U. S. Geological Survey, Carson City, NV).

Streamflow forecasting using the modular modeling system and an object-user interface: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 85-91, illus., 5 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002994

Dietrich, Tom (Natural Weather Service, Silver Spring, MD) and Rieman, Randy.

Water resources forecasting in the North Platte Basin: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 92-94, illus. incl. sketch map, April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002995

Baldwin, Connely K. (Utah State University, Logan, UT).

Seasonal streamflow forecasting using climate information: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 95-98, illus. incl. 2 tables, 2 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho. This paper is a companion to "Incorporating seasonal streamflow forecasts into operational decisionmaking" (Waage, M. D. et al this volume).

56002996

Waage, Marc D. (Denver Water, Denver, CO); Baldwin, Connely K.; Steger, Robert G. and Bray, Travis J.

Incorporating seasonal streamflow forecasts into operational decisionmaking: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 99-102, 9 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho. This paper is a companion to "Seasonal streamflow forecasting using climate information" (Baldwin, C. K., this volume).

56002997

Luce, Charles H. (Boise Forest Sciences, Rocky Mountain Research Station, Boise, ID) and Tarboton, David G.

A modified force-restore approach to modeling snow-surface heat fluxes: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 103-114, illus. incl. 2 tables, 22 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002998

Erickson, Tyler A. (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO); Williams, Mark W. and Tomaszewski, Matt.

Landscape controls on snow accumulation in an alpine catchment: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 115-118, illus., 2 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56002999

Orndorff, Richard I. (University of Nevada, Department of Geosciences, Las Vegas, NV) and Van Hoesen, John G.

Using GIS to predict the spatial distribution of perennial snow under modern and late Pleistocene conditions in the Snake Range, Nevada: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 119-122, illus., 7 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56003000

Steppuhn, Harold W. (Semi-arid Prairie Agricultural Research Centre, Swift Current, SK, Canada).

Managing snow to irrigate shelterbelts and abate salinity: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 123-126, illus. incl. 3 tables, 5 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56003001

Marks, Danny (U. S. Department of Agriculture, Agricultural Research Service, Boise, ID) and Winstral, Adam.

The effect of variable patterns of snow deposition and drifting on snowmelt, runoff, and stream discharge in a semi-arid mountain basin: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 127-130, illus., 12 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56003002

Deems, Jeffrey S. (Montana State University, Department of Earth Sciences, Bozeman, MT).

Topographic controls on spatial and temporal variation in snow temperatures in a mountain snowpack: *in* Proceedings of the Western snow conference; 69th annual meeting (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 131-134, illus. incl. sketch map, 12 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56003003

Dietrich, Tom (National Weather Service, Silver Spring, MD) and Rieman, Randy.

The 1994-1995 accumulation and runoff event in northern Colorado, southeastern Wyoming and the Nebraska Panhandle: *in Proceedings of the Western snow conference; 69th annual meeting* (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 135-137, illus. incl. sketch map, 4 ref., April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56003004

Julander, Randall P. (U. S. Department of Agriculture, NRCS, Salt Lake City, UT).

Will anyone remember us?: *in Proceedings of the Western snow conference; 69th annual meeting* (Elder, Kelly, editor), **Proceedings of the Western Snow Conference**, 69, p. 138-140, April 2001. *Meeting:* April 16-19, 2001, Sun Valley, Idaho.

56003005

Daly, Steven F. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Richmond, Paul.

Conceptual study of a Lake Erie intake to resist blockage by frazil ice: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-00-14, 29 p., September 2000. Prepared for the Davis-Besse Nuclear Power Station.

56003006

Collins, Charles M. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and Hardenberg, Mark J., editors.

Remediating and monitoring white phosphorus contamination at Eagle River flats (operable unit C), Fort Richardson, Alaska; FY 99 report: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-02-51, 125 p., July 2000. Prepared for U. S. Army, Alaska Directorate of Public Works and U. S. Army Engineer District, Alaska.

56003007

Dutta, Piyush K. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Durell, Glenn and Argueso, Marta.

Experimental results of shipboard thick composite structures from thermomechanical stresses of fire: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-23, 48 p., December 2000. Prepared for the University of New Orleans.

56003008

Lopez Anido, Roberto (University of Maine, Orono, ME); Harik, Issam; Dutta, Piyush K. and Shahrooz, Bahram.

Field performance evaluation of multiple fiber-reinforced polymer bridge deck systems over existing girders; Phase I: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-24, 424 p., February 15, 2001. Final report; prepared in cooperation with the Ohio Department of Transportation and the U. S. Department of Transportation, Federal Highway Administration.

56003009

Haehnel, Robert B. (U. S. Army Cold Regions and Engineering Laboratory, Hanover, NH).

Solutions for icing on gates at Turner Falls Dam, Montague, MA: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-25, 25 p., February 1, 2001. Prepared for Northeast Utilities, Northfield, Massachusetts. CRDA dated 18 April 2000.

56003010

Jones, Kathleen F. (U. S. Army Cold Regions and Engineering Laboratory, Snow and Ice Division, Hanover, NH).

A study of extreme ice loads on power lines in the St. Lawrence Valley region: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-27, 96 p., January 7, 2000. Final report; prepared for Vermont Electric Power Company, Rutland, Vermont.

56003011

Jones, Kathleen F. (U. S. Army Cold Regions and Engineering Laboratory, Snow and Ice Division, Hanover, NH).

Meteorological study for New York Power Authority transmission lines: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-28, 54 p., March 30, 2000. Final report; prepared for the New York Power Authority, White Plains, New York.

56003012

Decato, Stephen N. (U. S. Army Cold Regions and Engineering Laboratory, Hanover, NH); Perron, Frank E., Jr. and Albert, Donald G.

Ambient noise data and environmental characterization measurements, North Pomfret, Vermont: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-29, 568 p., 2001.

56003013

Reynolds, C. M. (U. S. Army Cold Regions and Engineering Laboratory, Environmental Research and Development Center, Hanover, NH); Koenen, Brent A. and Hardy, Susan E.
Oil/water separator assessment: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-30, 15 p., October 2000. Field report; prepared for Kunsan Civil Engineering Squadron and Headquarters of the Pacific Air Force.

56003014

Peck, Lindamae and Koenig, Geoff.

Dynamics of thermal radiance from selected groundcovers in winter, with application to passive infrared intrusion detection: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-33, 40 p., May 2000. Final report on FY99 Modeling and Simulation projects: Dynamics of Thermal Radiance from Patchy Snowcover and Passive-Infrared Force Protection Model for Transitional Environments and Non-Uniform Backgrounds.

56003015

U. S. Army Cold Regions and Engineering Laboratory.

Snow characteristics at Fort Greely, Alaska for testing the silo closure mechanism: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-36, 150 p., July 2001. Prepared for the Boeing Company, Huntsville, Alabama.

56003016

Albert, Donald G. (U. S. Army Cold Regions and Engineering Laboratory, Engineer Research and Development Center, Hanover, NH) and Nagle, Joyce A.

Sympathetic detonator (SYDET) baseline signature measurements in a tropical environment FY00 technical test plan: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-37, 9 p., November 8, 1999.

56003017

Nagle, Joyce A. (U. S. Army Cold Regions and Engineering Laboratory, Engineer Research and Development Center, Hanover, NH) and Albert, Donald G.

A review of sound propagation in complex urban terrain: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-01-38, 55 p., illus. incl. tables, 44 ref., 2001. Includes 5 appendices.

56003018

Dutta, Piyush K. (U. S. Army Cold Regions and Engineering Laboratory, Engineer Research and Development Center, Hanover, NH).

Response of FRP joints in hygrothermal environments: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-02-47, 17 p., October 2001. Prepared for U. S. Army Engineer Research and Development Center, Construction Engineering Research Laboratory, Champaign, IL.

56003019

U. S. Army Cold Regions and Engineering Laboratory, Engineer Research and Development Center.

IDT dual-skin radome icing test: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-02-48, 22 p., October 2001. Prepared for Saint-Gobain Performance Plastics, Merrimack, New Hampshire.

56003020

Phetteplace, Gary (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

Infrared assessment of the heat distribution system at the Chicago Housing Authority Lathrop Homes; Phase I, Final letter report: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-02-53, 6 p., May 29, 2001.

56003021

Meyer, Vernon (U. S. Army Corps of Engineers, North Western Division) and Phetteplace, Gary.

Development of a specification for low temperature hot water distribution systems: **ERDC/CRREL Letter Report**, Rep. No. ERDC/CRREL LR-02-54, 10 p., September 2001. Progress report.

56003064

Alexander, C. M. O'D. (Carnegie Institution of Washington, Department of Terrestrial Magnetism, Washington, DC); Taylor, S.; Delaney, J. S.; Ma, P. and Herzog, G. F.

Mass-dependent fractionation of Mg, Si, and Fe isotopes in five stony cosmic spherules [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1194, illus. incl. 1 table, 11 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX. CRREL Report No: ERDC/CRREL MP-02-5818

56003065

Taylor, S. (Cold Regions Research and Engineering Laboratory, Hanover, NH); Lever, J. H. and Govoni, J.

A second collection of micrometeorites from the South Pole water well [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1914, illus., 4 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX. CRREL Report No: ERDC/CRREL MP-02-5819

56003093

Ranaudo, Richard J. (Bombardier Aerospace); Ratvasky, Thomas P. and Van Zante, Judith Foss.

Flying qualities evaluation of a commuter aircraft with an ice contaminated tailplane: *in SAE 2000 transactions; Journal of Aerospace; section 1, SAE Transactions*, 109, p. 61-70, illus., 12 ref., 2001. *Meeting:* March 6-9, 2000, Detroit, MI. Transaction No. 2000-01-1676.

56003094

Bidwell, Colin S. (National Aeronautics and Space Administration, Glenn Research Center, Cleveland, OH) and Papadakis, Michael.

Collection efficiency and ice accretion characteristics of two full scale and one 1/4 scale business jet horizontal tails: *in SAE 2000 transactions; Journal of Aerospace; section 1, SAE Transactions*, 109, p. 99-125, illus., 20 ref., 2001. *Meeting:* March 6-9, 2000, Detroit, MI. Transaction No. 2000-01-1683.

56003095

Ryerson, Charles C. (U. S. Army Cold Regions Research and Engineering Lab, Hanover, NH); Koenig, George G.; Reehorst, Andrew L. and Pace, David J.

Ground-based and airborne remote sensing of inflight aircraft icing conditions: *in SAE 2000 transactions; Journal of Aerospace; section 1, SAE Transactions*, 109, p. 341-348, 24 ref., 2001. *Meeting:* March 6-9, 2000, Detroit, MI. Transaction No. 2000-01-2112. CRREL Report No: ERDC/CRREL MP-02-5825

56003096

Ambrose, Jay (Lockheed Martin Missiles and Space); Buchan, Eva; Yendler, Boris and Baumann, Jane.

Modeling and test results for two loop heat pipes with a freeze-tolerant condenser: *in SAE 2000 transactions; Journal of Aerospace; section 1, SAE Transactions*, 109, p. 615-621, illus. incl. 1 table, 6 ref., 2001. *Meeting:* March 6-9, 2000, Detroit, MI. Transactions No. 2000-01-2411.

56003097

Phillips, A. L. (Thermacore) and Wert, Kevin L.

Loop heat pipe anti icing system development program summary: *in SAE 2000 transactions; Journal of Aerospace; section 1, SAE Transactions*, 109, p. 657-663, illus., 2 ref., 2001. *Meeting:* March 6-9, 2000, Detroit, MI. Transaction No. 2000-01-2493.

56003098

Harmon, Bruce D. (Boeing, Philadelphia, PA).

V-22 electrical power system: *in SAE 2000 transactions; Journal of Aerospace; section 1, SAE Transactions*, 109, p. 914-924, illus. incl. 5 tables, 2001. *Meeting:* March 6-9, 2000, Detroit, MI. Transaction No. 2000-01-3638.

56003101

Hardy, Janet P. (U. S. Army, Cold Regions Research and Engineering Laboratory, ERDC, Hanover, NH) and Frankenstein, Susan, editors.

Proceedings of the fifty-eighth annual Eastern snow conference: **Proceedings of the Annual Eastern Snow Conference**, 58, 412 p., illus. incl. tables, sketch maps, 2001. ISBN: 0-920081-23-1. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada. Individual papers or extended abstracts are cited separately. CRREL Report No: ERDC/CRREL MP-02-5845

56003102

Tavakoli, C. (Université du Québec à Chicoutimi, Industriel Chair on Atmospheric Icing of Power Network Equipment, Chicoutimi, PQ, Canada); Fofana, I. and Farzaneh, M.
Dynamic modelling of flashover process on ice-covered insulator surface: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 3-12, illus., 16 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003103

Adams, Peter (Trent University, Peterborough, ON, Canada).

Research in parliament: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 15-21 (French sum.), illus. incl. 1 table, 2 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003104

Yue, Sheng (Environment Canada, MSD-OR, Burlington, ON, Canada); Pilon, Paul; Phinney, Bob and Cavadias, George S.

Patterns of trend in Canadian streamflow: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 23-34, illus. incl. 7 tables, 34 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003105

Toupin, Jerry (University of Alberta, Faculté Saint-Jean, Edmonton, AB).

Urban and rural perception of winter along the St. Lawrence Valley; a case study on Trois Rivières and Champlain, Québec: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 35-42, illus. incl. 9 tables, 6 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003106

Cavadias, George S. (McGill University, D-61, Montreal, PQ, Canada).

A Bayesian exploratory approach to the attribution of changes in river flows: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 43-44, 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003107

Fassnacht, S. R. (University of Arizona, Department of Hydrology and Water Resources, Tucson, AZ); Dressler, K. A. and Bales, R. C.

Physiographic parameters as indicators of snowpack state for the Colorado River basin [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 45-47, 10 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003108

Lee, Songweon (Texas A&M University, Department of Civil Engineering, College Station, TX); Klein, Andrew and Over, Thomas.

Effects of the El Nino/Southern Oscillation (ENSO) on precipitation, temperature, and snow distribution in the upper Rio Grande River basin: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 49-59, illus. incl. 3 tables, 25 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003109

Fortin, Richard (Université Laval, Département de Génie Civil, Quebec City, PQ, Canada) and Fortier, Richard.

Tomographic imaging of a snowpack: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 61-70, illus. incl. 2 tables, 16 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003110

Marchand, Wolf-Dietrich (NTNU, Department of Hydraulic and Environmental Engineering, Trondheim, Norway) and Killingtveit, Anund.

Analyses of the relation between spatial snow distribution and terrain characteristics: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 71-84, illus. incl. 2 tables, sketch map, 30 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003111

Pomeroy, John W. (University of Wales, Institute of Geography and Earth Sciences, Aberystwyth, United Kingdom); Hanson, Susanne and Faria, Derek.

Small-scale variation in snowmelt energy in a boreal forest; an additional factor controlling depletion of snow cover?: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 85-94, illus. incl. 2 tables, 16 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003112

Boon, S. (University of Alberta, Department of Earth & Atmospheric Sciences, Edmonton, AB, Canada) and Sharp, Martin J.

Impact of high-altitude chinook events on Arctic glacier hydrology: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 97-105, illus. incl. sketch map, 17 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003113

Takeuchi, Nozomu (University of Alaska at Fairbanks, International Arctic Research Center, Fairbanks, AK).

The altitudinal distribution of snow algae on an Alaska glacier (Gulkana Glacier in the Alaska Range): *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 107-116, illus. incl. sketch map, 21 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003114

Pelto, Mauri S. (Nichols College, Dudley, MA) and Riedel, Jon.

Spatial and temporal variations in annual balance of North Cascade glaciers, Washington 1984-2000: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 117-127, illus. incl. 3 tables, 18 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003115

Hellstrom, Robert A. (Bridgewater State College, Department of Earth Sciences and Geography, Bridgewater, MA).

Meteorological forcing of the abrupt springtime temperature rise at the Greenland Crest [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 129-131, illus., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003116

Hopkinson, Chris (Wilfrid Laurier University, Cold Regions Research Centre, Waterloo, ON, Canada) and English, Mike.

Spatio-temporal variations of $\delta^{18}\text{O}$ isotope signatures of hydrological components within a glacierised mountainous basin: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 133-144, illus. incl. sketch map, 16 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003117

Lafrenière, Melissa J. (University of Alberta, Department of Earth and Atmospheric Sciences, Edmonton, AB, Canada) and Sharp, Martin J.

Seasonal change in snowpack, soil water and stream water DOC concentrations in glacial and snowmelt fed catchments in the Alberta Rocky Mountains [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 145-147, illus. incl. sketch map, 3 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003118

Mitchell, Andrew (University of Wales, Institute of Geography and Earth Sciences, Aberystwyth, United Kingdom); Brown, Giles H. and Fuge, Ron.

Temporal variations in the minor and trace element chemistry of meltwaters draining Haut Glacier d'Arolla, Switzerland; implications for downstream water quality: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 149-158, illus. incl. 2 tables, 37 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003119

Mumford, P. N. (University of Sheffield, Department of Geography, Sheffield, United Kingdom); Hodson, A. J. and Tranter, M.

Nutrient transport by glacial meltwaters on Svalbard: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 159-160, illus. incl. 1 table, 1 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003120

Brown, Giles H. (University of Wales, Institute of Geography and Earth Sciences, Aberystwyth, United Kingdom); Hubbard, Bryn and Seagren, Andrew G.

Modelled solute acquisition from suspended sediment in a theoretical 4-cell subglacial hydrological system: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 161-169, illus. incl. 3 tables, 28 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003121

Cogley, J. Graham (Trent University, Department of Geography, Peterborough, ON, Canada); Ecclestone, M. A. and Andersen, D. T.

Melt duration on glaciers; environmental controls examined with orbiting radar: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 171-186, illus. incl. 3 tables, 26 ref., 2001.

Meeting: May 17-19, 2001, Ottawa, ON, Canada.

56003122

Hall, Dorothy K. (NASA, Goddard Space Flight Center, Greenbelt, MD); Bayr, Klaus J.; Bindschadler, Robert A. and Schoner, Wolfgang.

Changes in the Pasterze Glacier, Austria, as measured from the ground and space: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 187-193, illus. incl. 1 table, 13 ref., 2001.

Meeting: May 17-19, 2001, Ottawa, ON, Canada.

56003123

Chasmer, Laura (University of Waterloo, Department of Geography, Waterloo, ON, Canada) and Hopkinson, Chris.

Using airborne LASER altimetry and GIS to assess scale-induced radiation loading errors in a glacierised basin: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 195-205, illus. incl. 4 tables, 18 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003124

Jones, H. G. (Université du Québec, Sainte-Foy, PQ, Canada) and Pomeroy, J. W.

Early spring snowmelt in a small boreal forest watershed; influence of concrete frost on the hydrology and chemical composition of streamwaters during rain-on-snow events: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 209-218, illus. incl. 2 tables, 26 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003125

Robinson, P. B. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Melloh, Rae A. and Hardy, Janet P.

Comparison of winter litterfall between two different forest communities in northern Vermont: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 219-228, illus. incl. 2 tables, 10 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada. CRREL Report No: ERDC/CRREL MP-02-5826

56003126

Melloh, Rae A. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Hardy, Janet P. and Davis, Robert E.

The spectral albedo/reflectance of littered forest snow: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 229-238, illus., 19 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada. CRREL Report No: ERDC/CRREL MP-02-5827

56003127

Murray, C. D. (Trent University, Watershed Ecosystems Graduate Program, Peterborough, ON, Canada) and Buttelle, J. M.

Clearcutting impacts on snow accumulation and melt in a northern hardwood forest: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 239-247, illus. incl. 1 table, sketch map, 17 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003128

Derkson, Chris (University of Waterloo, Department of Geography, Waterloo, ON, Canada); Walker, A.; Ledrew, E. and Goodison, B.

Evaluation of the meteorological service of Canada land-cover sensitive snow water equivalent algorithm [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 249-252, illus. incl. 1 table, 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003129

Hopkinson, Chris (Wilfrid Laurier University, Department of Geography, Waterloo, ON, Canada); Sitar, Mike; Chasmer, Laura; Gynan, Chris; Agro, David; Enter, Robert; Foster, James; Heels, Nicole; Hoffman, Crystal; Nilsson, Jeff and St. Pierre, Rene.

Mapping the spatial distribution of snowpack depth beneath a variable forest canopy using airborne laser altimetry: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 253-264, illus. incl. 3 tables, sketch map, 12 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003130

Hedstrom, N. R. (National Water Research Institute, Environment Canada, Saskatoon, SK, Canada); Granger, R. J.; Pomeroy, J. W.; Gray, D. M.; Brown, T. and Little, J. L.

Enhanced indicators of land use change and climate variability impacts on prairie hydrology using the cold regions hydrological model: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 265-269, illus. incl. 1 table, 4 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003131

Brown-Mitic, Constance M.; Macpherson, Ian J.; Schuepp, Peter H. and Bales, Roger.

Surface atmosphere exchange during and after snow melt for different Arctic environments during MAGS: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 273-282, illus., 19 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003132

Hardy, Janet P. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); **McDonald, Kyle; Davis, Robert E.; Melloh, Rae A. and McKenzie, Ceretha.** Distributed mapping of SNTHERM-modelled snow properties for monitoring seasonal freeze-thaw dynamics [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 283-287, illus., 4 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada. CRREL Report No: ERDC/CRREL MP-02-5828

56003133

Jones, David R. M. (York University, Department of Geography, Toronto, ON, Canada) and **Young, Kathy L.**

Monitoring snowmelt in the Canadian High Arctic using a DEM and remote sensing: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 289-296, illus. incl. sketch map, 11 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003134

Pivot, Frédérique C. (Université Laval, Département de Géographie, Sainte-Foy, PQ, Canada); **Duguay, Claude R. and Kergomard, Claude.**

Snow cover monitoring at treeline using RADARSAT-1 and ERS-2 Synthetic Aperture Radar data: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 297-307, illus. incl. 2 tables, 21 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003135

Bryant, Christine (University of Guelph, School of Engineering, Guelph, ON, Canada); **Whiteley, Hugh; Rubinstein, Irene; Corner, Brad and Schroeter, Harold.**

Comparison of SSM/I SWE with modelled snowpack for Mattagami watershed: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 309-313, illus. incl. sketch map, 6 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003136

Hall, Dorothy K. (NASA, Goddard Space Flight Center, Greenbelt, MD); **Salomonson, Vincent V. and Riggs, George A.**

Analysis of a time series of snow-cover maps of North America derived from the moderate resolution imaging spectroradiometer instrument [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 315, 4 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003137

Li, Long (NOAA, National Operational Hydrologic Remote Sensing Center, Chanhassen, MN); **Cline, Don; Fall, Greg; Rost, Andy and Nilsson, Anders.**

Performance and suitability of single- and multiple-layer snow models for operational, moderate-resolution, CONUS snow data assimilation: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 317-326, 8 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003138

Riggs, George A. (NASA, Science Systems & Applications, Greenbelt, MD); Hall, Dorothy K. and Key, Jeffrey R.

Initial evaluation of MODIS sea ice observations: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 327-331, illus., 7 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003139

Brown, R. (Meteorological Service of Canada, Climate Research Branch, Dorval, PQ, Canada); Brasnett, B. and Robinson, D.

Development of a gridded North American monthly snow depth and snow water equivalent dataset for GCM validation: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 333-340, illus. incl. sketch map, 26 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003140

Brubaker, Kaye L. (University of Maryland, Department of Civil Engineering, College Park, MD) and Menoes, Michael C.

A technique to estimate snow depletion curves from time-series data using the Beta distribution [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 343-346, illus., 4 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003141

Menoes, Michael C. (University of Maryland, Department of Civil and Environmental Engineering, College Park, MD) and Brubaker, Kaye L.

How similar are snow depletion curves from year to year? Case study in the upper Rio Grande watershed [abstr.]: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 347-349, illus., 2 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003142

Richard, Caroline (University of Quebec at Trois-Rivières, Department of Chemistry-Biology, Trois-Rivieres, PQ, Canada) and Gratton, D. J.

The importance of the air temperature variable for the snowmelt runoff modelling using the SRM model: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 351-361, illus. incl. 3 tables, 13 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003143

Riseborough, D. W. (Carleton University, Department of Geography and Environmental Studies, Ottawa, ON, Canada).

An analytical model of the ground surface temperature under snowcover with soil freezing: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 363-372, illus., 13 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003144

Kuchment, L. S. (Russian Academy of Sciences, Water Problems Institute, Moscow, Russian Federation) and Gelfan, A. N.

Dynamic-stochastic model of snowmelt runoff generation and its application for estimating extreme floods: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 373-388, 21 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003145

Hopkinson, Chris (Wilfrid Laurier University, Cold Regions Research Center, Waterloo, ON, Canada); Lowe, Andrew; Zawadzki, Alexi and English, Mike.

Using oxygen isotope tracers to evaluate and optimise flow components generated by the UBC watershed model in a mountainous basin: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 389-399, illus. incl. 1 table, sketch map, 13 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada.

56003146

Haehnel, Robert (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Liston, Glen; Sturm, Matthew and Lever, James.

GIS-based three-dimensional snowdrift computer model: *in* Proceedings of the fifty-eighth annual Eastern snow conference (Hardy, Janet P., editor; *et al.*), **Proceedings of the Annual Eastern Snow Conference**, 58, p. 401-410, illus. incl. 1 table, sketch map, 4 ref., 2001. *Meeting:* May 17-19, 2001, Ottawa, ON, Canada. CRREL Report No: ERDC/CRREL MP-02-5829

56003148

Bernier, M. (Université du Québec, INRS-EAU, Sainte-Foy, PQ, Canada); Fortin, J. P.; Gauthier, Y.; Gauthier, R.; Bisson, J. L. and Vincent, P.

Estimation de l'équivalent en eau du couvert nival au moyen d'images radar satellitaires [Estimation of the water equivalent of a snowpack using satellite radar images]: **Revue des Sciences de l'Eau (Paris)**, 12(2), p. 407-423 (English sum.), illus. incl. 4 tables, sketch map, 18 ref., 1999.

56003156

Prokosch, Peter (World Wide Fund, Arctic Program, Oslo, Norway).

The Rovaniemi process; celebrating 10 years of Arctic environmental cooperation: **WWF Arctic Bulletin**, 3.01, p. 4-5, illus., September 1, 2001.

56003157

Huntington, Henry P.

What is the overall state of the Arctic's natural environment?: **WWF Arctic Bulletin**, 3.01, p. 8-9, illus., September 1, 2001.

56003159

U. S., Federal Highway Administration.

Winter maintenance; RWISs and anti-icing techniques: **Public Works**, 133(4), p. 14-19, illus., April 2002.

56003160

Hayman, Thomas L. (Swatara Township Highway Superintendent, Harrisburg, PA).
They can live together; manholes and snowplows: **Public Works**, 133(4), p. 20-21, illus., April 2002.

56003161

Gatto, Lawrence W. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Halvorson, Jonathan J.; McCool, Donald K. and Palazzo, Antonio J.
Effects of freeze-thaw cycling on soil erosion: *in* Landscape erosion and evolution modeling (Harmon, Russell S., editor; *et al.*), Kluwer Academic/Plenum Publishers, New York, NY, p. 29-55, illus. incl. 1 table, 76 ref., 2001. CRREL Report No: ERDC/CRREL MP-02-5833

56003201

Goldstein, Norman E. (Stanford Research Institute, Menlo Park, CA).
Seismometers on Arctic ice for detection of underwater acoustic disturbances: **U. S. Navy Journal of Underwater Acoustics**, 16(2), p. 219-232, illus., 15 ref., April 1966.

56003211

Kleman, Johan (Stockholm University, Department of Physical Geography, Stockholm, Sweden); Marchant, David and Borgstrom, Ingmar.
Geomorphic evidence for late glacial ice dynamics on southern Baffin Island and in outer Hudson Strait, Nunavut, Canada: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 249-257, illus. incl. sketch map, 26 ref., August 2001.

56003212

Gunnarson, Bjorn E. (Stockholm University, Department of Physical Geography, Stockholm, Sweden).
Lake level changes indicated by dendrochronology of subfossil pine, Jamtland, central Scandinavian Mountains, Sweden: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 274-281, illus. incl. 1 table, sketch maps, 52 ref., August 2001.

56003213

Svensson, Brita M. (Lund University, Department of Ecology, Lund, Sweden); Seel, Wendy E.; Nilsson, Carin H. and Carlsson, Bengt A.
Roles played by timing of seedling development and host identify in determining fitness of an annual, subarctic, hemiparasitic plant: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 299-305, illus. incl. 1 table, 51 ref., August 2001.

56003214

Cockell, Charles S. (British Antarctic Survey, Cambridge, United Kingdom); Lee, Pascal; Schuerger, Andrew C.; Hidalgo, Loretta; Jones, Jeff A. and Stokes, M. Dale.
Microbiology and vegetation of micro-oases and polar desert, Haughton impact crater, Devon Island, Nunavut, Canada: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 306-318, illus. incl. 5 tables, sketch maps, 59 ref., August 2001.

56003215

Sturm, Matthew (U. S. Army Cold Regions Research and Engineering Laboratory, Fort Wainwright, AK); Liston, Glen E.; Benson, Carl S. and Holmgren, Jon.

Characteristics and growth of a snowdrift in Arctic Alaska, U.S.A.: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 319-329, illus. incl. 7 tables, sketch map, 29 ref., August 2001. CRREL Report No: ERDC/CRREL MP-02-5832

56003216

Onipchenko, V. G. (Moscow State University, Department of Geobotany, Moscow, Russian Federation); Blinnikov, M. S. and Aksanova, A. A.

Experimental evaluation of shading effects in seasonal dynamics of four alpine communities in northwestern Caucasus, Russia: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 330-339, illus. incl. 5 tables, sketch map, 42 ref., August 2001.

56003217

Conlin, David B. (Colorado College, Department of Biology, Colorado Springs, CO) and Ebersole, James J.

Restoration of an alpine disturbance; differential success of species in turf transplants, Colorado, U.S.A.: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 340-347, illus. incl. 3 tables, sketch map, 32 ref., August 2001.

56003218

Bridle, Kerry L. (University of Tasmania, Environmental Studies, Tasmania, Australia); Kirkpatrick, J. B.; Cullen, P. and Shepherd, R. R.

Recovery in alpine health and grassland following burning and grazing, eastern Central Plateau, Tasmania, Australia: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 348-356, illus. incl. 4 tables, sketch maps, 22 ref., August 2001.

56003219

Wahren, C. H. A. (La Trobe University, Department of Agriculture Sciences, Melbourne, Victoria, Australia); Williams, R. J. and Papst, W. A.

Vegetation change and ecological processes in alpine and subalpine Sphagnum bogs of the Bogong high plains, Victoria, Australia: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 357-368, illus. incl. 6 tables, sketch maps, 68 ref., August 2001.

56003220

Wearne, Lynise J. (La Trobe University, Department of Botany, Melbourne, Victoria, Australia) and Morgan, John W.

Recent forest encroachment into subalpine grasslands near Mount Hotham, Victoria, Australia: **Arctic, Antarctic, and Alpine Research**, 33(3), p. 369-377, illus. incl. 2 tables, sketch map, 42 ref., August 2001.

56003229

Schauer, U. (Alfred-Wegener-Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany); Rudels, B.; Jones, E. P.; Anderson, L. G.; Muench, R. D.; Bjork, G.; Swift, J. H.; Ivanov, V. and Larsson, A. M.

Confluence and redistribution of Atlantic water in the Nansen, Amundsen and Makarov basins: **Annales Geophysicae (1988)**, 20(2), p. 257-273, illus. incl. geol. sketch maps, sects., 37 ref., February 2002.

56003258

Zeng Yinxin (Polar Research Institute of China, Shanghai, China); Chen Bo; Cai Minghong and He Jianfeng.

The survey of marine microorganisms in low temperatures of Chukchi and Bering seas: **Jidi Yanjiu = Chinese Journal of Polar Research**, 13(1), p. 42-49, (Chinese) (English sum.), 6 tables, 4 ref., 2001.

56003259

Tang Yuxiang (State Oceanic Administration, First Institute of Oceanography, Qingdao, China); Jiao Yutian and Zou Emei.

A preliminary analysis of the hydrographic features and water masses in the Bering Sea and the Chukchi Sea: **Jidi Yanjiu = Chinese Journal of Polar Research**, 13(1), p. 57-68, (Chinese) (English sum.), illus. incl. 3 tables, 2 ref., 2001.

56003263

Blazewicz-Paskowycz, Magdalena (University of Lodz, Laboratory of Polar Biology and Oceanobiology, Lodz, Poland) and Heard, Richard W.

Observations on Cumacea (Malacostraca; Peracarida) from Antarctic and subantarctic waters; I, Ekleptostylis debroyeri (Diastylidae), a new species from waters off the Antarctic Peninsula: **Proceedings of the Biological Society of Washington**, 114(4), p. 907-917, illus. incl. 1 table, 24 ref., December 19, 2001.

56003291

Anonymous.

Alaskan glacier surges: **Geotimes**, 38(9), p. 5, illus., September 1993.

56003301

Radji, Fariborz (Technical University of Denmark, Building Materials Laboratory, Lyngby, Denmark); Sellevold, Erik J. and Richards, Cedric W.

Effect of freezing on the dynamic mechanical response of hardened cement paste down to -60°C: **Cement and Concrete Research**, 2, p. 697-715 (Danish sum.), illus. incl. 5 tables, 15 ref., 1972.

56003316

Kitagawa, Hiromitsu (Hokkaido University, Sapporo, Japan); Ono, Nobuo; Yamaguchi, Hajime; Izumiya, Koh and Kamesaki, Kazuhiko.

The Northern Sea Route; the shortest sea route linking East Asia and Europe: Ship & Ocean Foundation, Tokyo, Japan, 230 p., illus. incl. tables, sketch maps, 67 ref., 2001. ISBN: 4-88404-027-9. Includes appendices.

56003317

Zhang, Jinlun (University of Washington, Applied Physics Laboratory, Seattle, WA); Rothrock, Drew and Steele, Michael.

Recent changes in Arctic sea ice; the interplay between ice dynamics and thermodynamics: **Journal of Climate**, 13(17), p. 3099-3114, illus. incl. 6 tables, sketch maps, 48 ref., September 1, 2000.

56003318

Anonymous.

It's blubbery cold for minke whales in winter!: **Polar Research in Tromso**, 2, p. 5-6, illus., 1 ref., September 2000.

56003319

Anonymous.

The world's northernmost botanic garden: **Polar Research in Tromso**, 2, p. 6-9, illus., September 2000.

56003320

McClung, D. M. (University of British Columbia, Department of Geography, Vancouver, BC, Canada).

Superelevation of flowing avalanches around curved channel bends: **Journal of Geophysical Research, B, Solid Earth and Planets**, 106(8), p. 16,489-16,498, illus. incl. 2 tables, 32 ref., August 10, 2001.

56003321

Wahr, John (University of Colorado at Boulder, Department of Physics and Cooperative Institute for Research in Environmental Sciences, Boulder, CO); van Dam, Tonie; Larson, Kristine and Francis, Olivier.

Geodetic measurements in Greenland and their implications: **Journal of Geophysical Research, B, Solid Earth and Planets**, 106(8), p. 16,567-16,581, illus. incl. 3 tables, geol. sketch maps, 30 ref., August 10, 2001.

56003322

Holland, Marika M. (National Center for Atmospheric Research, Boulder, CO); Bitz, Cecilia M. and Weaver, A. J.

The influence of sea ice physics on simulations of climate change: **Journal of Geophysical Research, C, Oceans**, 106(9), p. 19,639-19,655, illus. incl. 2 tables, geol. sketch maps, 44 ref., September 15, 2001.

56003323

Gladstone, Rupert M. (University of East Anglia, School of Environmental Sciences, Norwich, United Kingdom); Bigg, Grant R. and Nicholls, Keith W.

Iceberg trajectory modeling and meltwater injection in the Southern Ocean: **Journal of Geophysical Research, C, Oceans**, 106(9), p. 19,903-19,915, illus. incl. 2 tables, geol. sketch maps, 48 ref., September 15, 2001.

56003324

Dixon, Tony W. (University of Otago, Department of Mathematics and Statistics, Dunedin, New Zealand) and Squire, Vernon A.

Energy transport in the marginal ice zone: **Journal of Geophysical Research, C, Oceans**, 106(9), p. 19,917-19,927, illus., 29 ref., September 15, 2001.

56003325

Johansen, Stein (Norwegian University of Science and Technology, Department of Botany, Trondheim, Norway).

A dendrochronological analysis of driftwood in the northern Dvina Delta and on northern Novaya Zemlya: **Journal of Geophysical Research, C, Oceans**, 106(9), p. 19,929-19,938, illus. incl. 6 tables, geol. sketch maps, 65 ref., September 15, 2001.

56003326

Le, Guan (**University of California, Insitute of Geophysics and Planetary Physics, Los Angeles, CA**); **Raeder, J.; Russell, C. T.; Lu, Gang; Petrinec, S. M. and Mozer, F. S.**
Polar cusp and vicinity under strongly northward interplanetary magnetic field on April 11, 1997; observations and MHD simulations: **Journal of Geophysical Research, A, Space Physics**, 106(10), p. 21,083-21,093, illus., 47 ref., October 1, 2001.

56003327

McCracken, K. G. (**University of Maryland, Institute for Physical Science and Technology, College Park, MA**); **Dreschhoff, Gisela A. M.; Zeller, E. J.; Smart, D. F. and Shea, M. A.**
Solar cosmic ray events for the period 1561-1994; I, Identification in polar ice, 1561-1950: **Journal of Geophysical Research, A, Space Physics**, 106(10), p. 21,585-21,598, illus. incl. 3 tables, 47 ref., October 1, 2001. Includes appendix.

56003328

Pisaric, Michael Frederick Joseph.

Holocene environmental change at the subarctic alpine treeline in northern British Columbia and the southern Yukon Territory, Canada: 206 p., Doctoral, 2001, Queen's University, Kingston, ON, Canada. ISBN: 0-612-56096-1 Available from: Univ. Microfilms.

56003329

Kim, Ji Hee (**Polar Research Center, Seoul, South Korea**); **Chung, Hosung; Oh, Yoon Sik and Lee, In Kyu.**

Macroalgal flora of Maxwell Bay, King George Island, Antarctica; I, Chlorophyta, Chrysophyta and Phaeophyta: **Ocean and Polar Research**, 23(3), p. 209-221, illus. incl. sketch map, 60 ref., September 2001.

56003331

Lluberas, Albert (**Instituto Antártico Uruguayo, Montevideo, Uruguay**).

Monitoreo de parametros dinamicos del Glaciar Collins, Isla Rey Jorge; expedición científica conjunta Uruguaya Sudcoreana al casquete de Isla Livingston [Monitoring the dynamic parameters of Collins Glacier, King George Island; Uruguayan-South Korean scientific expedition to Livingston Island]: *in* Instituto Antártico Uruguayo; actividad científica 1998/2000, **Actividad Científica - Instituto Antartico Uruguayo**, 7, p. 69-79 (English sum.), illus., 3 ref., 2001.

56003333

Di Cristófarro, Mariela (**Universidad de la República, Instituto de Higiene, Uruguay**) and **González, Patricia.**

Evaluacion del impacto del medio ambiente Antartico sobre los microorganismos asociados al hombre [Environmental impact evaluation on microorganisms associated with people in Antarctica]: *in* Instituto Antártico Uruguayo; actividad científica 1998/2000, **Actividad Científica - Instituto Antartico Uruguayo**, 7, p. 125-134 (English sum.), illus. incl. 1 table, 17 ref., 2001.

56003335

Mitchell, N. J. (**University of Wales Aberystwyth, Department of Physics, United Kingdom**); **Pancheva, D.; Middleton, H. R. and Hagon, M. E.**

Mean winds and tides in the Arctic mesosphere and lower thermosphere: **Journal of Geophysical Research, A, Space Physics**, 107(1), 13 p., illus. incl. 1 table, 21 ref., January 1, 2002. DOI 10.1029/2001JA900127.

56003336

Singh, Pratap (National Institute of Hydrology, Roorkee, India) and Jain, Sanjay Kumar. Snow and glacier melt in the Satluj River at Bhakra Dam in the western Himalayan region: **Hydrological Sciences Journal = Journal des Sciences Hydrologiques**, 47(1), p. 93-106, illus. incl. 4 tables, sketch maps, 14 ref., February 2002.

56003337

Aleinik, D. L. (Russian Academy of Sciences, Shirshov Institute of Oceanology, Moscow, Russian Federation); Byshev, V. I. and Shcherbinin, A. D.

Water dynamics in the Norwegian Sea at the site of the accident of the Komsomolets nuclear submarine: **Oceanology**, 42(1), p. 7-16, illus. incl. 4 tables, sketch map, 11 ref., February 2002.

56003338

Ershova, S. V. (Russian Academy of Sciences, Shirshov Institute of Oceanology, Moscow, Russian Federation); Kopelevich, O. V. and Sheberstov, S. V.

A method for estimating the penetration of solar radiation into the waters of the Arctic Seas using satellite data; the case of a totally overcast sky: **Oceanology**, 42(1), p. 17-26, illus. incl. 6 tables, 11 ref., February 2002.

56003339

Voronina, N. M. (Russian Academy of Sciences, Shirshov Institute of Oceanology, Moscow, Russian Federation).

Features of the Antarctic mesozooplankton within waters of different types of the Pacific sector: **Oceanology**, 42(1), p. 68-76, illus. incl. 1 table, sketch map, 33 ref., February 2002.

56003340

Kucheruk, N. V. (Russian Academy of Sciences, Shirshov Institute of Oceanology, Moscow, Russian Federation) and Kotov, A. V.

The coastal benthic communities of the Pechora Sea and Baidaratskaya Bay; a comparative analysis: **Oceanology**, 42(1), p. 109-112, 1 table, sketch map, 15 ref., February 2002.

56003341

Svitoch, A. A. (Moscow State University, Geographical Faculty, Moscow, Russian Federation) and Taldenkova, E. E.

On cold transgressions in the Bering Sea: **Oceanology**, 42(1), p. 136-143, illus. incl. 1 table, sketch map, 26 ref., February 2002. *Foraminifera, diatoms*

56003342

Pogodina, I. A. (Russian Academy of Sciences, Murmansk Marine Biological Institute, Murmansk, Russian Federation) and Tarasov, G. A.

The sedimentation processes and evolution of foraminiferal communities during the last deglaciation in the Barents Sea: **Oceanology**, 42(1), p. 148-152, illus. incl. sketch map, 20 ref., February 2002.

56003343

Zhao, Litong (Alberta Research Council, Edmonton, AB, Canada); Gray, D. M. and Toth, B.

Influence of soil texture on snowmelt infiltration into frozen soils: **Canadian Journal of Soil Science**, 82(1), p. 75-83 (French sum.), illus. incl. 2 tables, 27 ref., February 2002.

56003344

Dai, X. Y. (University of Alaska-Fairbanks, Agricultural and Forestry Experiment Station, Palmer, AK); Ping, C. L. and Michaelson, G. J.
Characterizing soil organic matter in Arctic Tundra soils by different analytical approaches: **Organic Geochemistry**, 33(4), p. 407-419, illus. incl. 4 tables, 38 ref., 2002.

56003345

Bory, A. J. M. (Lamont-Doherty Earth Observatory, Palisades, NY); Biscaye, P. E.; Svensson, A. and Grousset, F. E.
Seasonal variability in the origin of recent atmospheric mineral dust at NorthGRIP, Greenland: **Earth and Planetary Science Letters**, 196(3-4), p. 123-134, illus. incl. 1 table, sketch map, 44 ref., March 15, 2002. Lamont-Doherty Earth Obs., Contrib. No. 6278.

56003346

Bard, Edouard (CNRS-CEREGE, Aix-en-Provence, France); Antonioli, Fabrizio and Silenzi, Sergio.
Sea-level during the penultimate interglacial period based on a submerged stalagmite from Argentarola Cave (Italy): **Earth and Planetary Science Letters**, 196(3-4), p. 135-146, illus. incl. 1 table, sketch map, 54 ref., March 15, 2002.

56003347

Moreno, Ana (Universitat de Barcelona, Grup de Recerca Consolidat en Geociències Marines, Barcelona, Spain); Nave, Silvia; Kuhlmann, Holger; Canals, Miquel; Targarona, Jordi; Freudenthal, Tim and Abrantes, Fatima.
Productivity response in the North Canary Basin to climate changes during the last 250 000 yr; a multi-proxy approach: **Earth and Planetary Science Letters**, 196(3-4), p. 147-159, illus. incl. 2 tables, sketch map, 50 ref., March 15, 2002.

56003348

Robinson, Laura F. (Oxford University, Department of Earth Sciences, Oxford, United Kingdom); Henderson, Gideon M. and Slowey, Niall C.
U-Th dating of marine isotope Stage 7 in Bahamas slope sediments: **Earth and Planetary Science Letters**, 196(3-4), p. 175-187, illus. incl. 1 table, 44 ref., March 15, 2002.

56003349

Inoue, Satoshi (National Institute for Agro-Environmental Sciences, Tsukuba, Japan); Yokoyama, Kotaro; Ohno, Hiroyuki and Kawashima, Shigeto.
Estimation of snowfall, maximum snow depth and snowcover condition in Japan under the global climate change (follow-up); estimating water equivalents of snowfall in major Japanese catchments: **Seppyo = Journal of the Japanese Society of Snow and Ice**, 63(6), p. 489-499, (Japanese) (English sum.), illus., 13 ref., November 2001.

56003350

Gonda, Takehiko (Aichi Gakuin University, Division of General Education, Nisshin, Japan); Namba, Junichi and Sei, Tadanori.
Influence of the pressure of carrier gas on the morphology of snow crystals: **Seppyo = Journal of the Japanese Society of Snow and Ice**, 63(6), p. 501-509, (Japanese) (English sum.), illus., 14 ref., November 2001.

56003351

Evans, J. (British Antarctic Survey, Cambridge, United Kingdom) and Pudsey, C. J.

Sedimentation associated with Antarctic Peninsula ice shelves; implications for palaeoenvironmental reconstructions of glacimarine sediments: **Journal of the Geological Society of London**, 159, Part 3, p. 233-237, illus. incl. sketch maps, 31 ref., May 2002. DOI 10.1144/0016-764901-125.

56003352

Chase, Ronald B. (Western Michigan University, Department of Geosciences, Kalamazoo, MI); Kehew, Alan E. and Montgomery, William W.

Determination of slope displacement mechanisms and causes; an approach using new geometric modeling techniques and climate data: *in* Landscape erosion and evolution modeling (Harmon, Russell S., editor; *et al.*), Kluwer Academic/Plenum Publishers, New York, NY, p. 57-87, illus. incl. 4 tables, sects., geol. sketch maps, 44 ref., 2001.

56003353

Morse, James S.; Williams, Christopher R.; Lawson, Daniel E.; Garfield, Donald E. and Tantillo, Thomas J.

Groundwater flow measuring system: Rep. No. US 6,227,045 B1, illus., 10 ref., May 8, 2001. Available from: U. S. Patent Office, Washington, DC, United States. Patent No. 6,227,045 B1; Application no. 09/397,071 filed Sept. 16, 1999.

56003354

Hicks, Sheila (University of Oulu, Institute of Geosciences, Oulu, Finland).

The use of annual arboreal pollen deposition values for delimiting tree-lines in the landscape and exploring models of pollen dispersal: *in* Modern pollen deposition, tree-lines and climate (Hicks, Sheila, editor; *et al.*), **Review of Palaeobotany and Palynology**, 117(1-3), p. 1-29, illus. incl. 3 tables, sketch map, 101 ref., October 2001. Meeting: INQUA XV international congress, symposium, Aug. 3-11, 1999, Durban, South Africa. Includes appendices.

56003355

Barnett, Catherine (University of Birmingham, School of Geography and Environmental Sciences, Birmingham, United Kingdom); Dumayne-Peaty, Lisa and Matthews, John A.

Holocene climatic change and tree-line response in Leirdalen, central Jotunheimen, south central Norway: *in* Modern pollen deposition, tree-lines and climate (Hicks, Sheila, editor; *et al.*), **Review of Palaeobotany and Palynology**, 117(1-3), p. 119-137, illus. incl. 2 tables, sketch map, 70 ref., October 2001. Meeting: INQUA XV international congress, symposium, Aug. 3-11, 1999, Durban, South Africa.

56003356

Caseldine, Chris J. (University of Exeter, Department of Geography, Exeter, United Kingdom).

Changes in Betula in the Holocene record from Iceland; a palaeoclimatic record or evidence for early Holocene hybridisation?: *in* Modern pollen deposition, tree-lines and climate (Hicks, Sheila, editor; *et al.*), **Review of Palaeobotany and Palynology**, 117(1-3), p. 139-152, illus. incl. 2 tables, sketch map, 62 ref., October 2001. Meeting: INQUA XV international congress, symposium, Aug. 3-11, 1999, Durban, South Africa.

56003357

Xiao Tian (Chinese Academy of Sciences, Institute of Oceanology, Qingdao, China); Sun Song; Zhang Wuchang; Li Chaolun and Jin Mingming.
Distribution of cyanobacterium in the Bering Sea: *Jidi Yanjiu = Chinese Journal of Polar Research*, 13(1), p. 13-20, (Chinese) (English sum.), illus. incl. 1 table, 13 ref., 2001.

56003358

Jeck, R. K.
History and interpretation of aircraft icing intensity definitions and FAA rules for operating in icing conditions: 43 p., November 2001. *Available from:* National Technical Information Service, (703)487-4650, order number ADA398952NEG, Springfield, VA, United States. Final report.

56003398

Dethleff, Dirk (GEOMAR Research Center of Marine Sciences, Kiel, Federal Republic of Germany); Rachold, Volker; Tintelnot, Matthias and Antonow, Martin.

Sea-ice transport of riverine particles from the Laptev Sea to Fram Strait based on clay mineral studies: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 496-502, sect., geol. sketch maps, December 2000.

DOI: 10.1007/s005310000109

56003399

Easterbrook, Don J.

Surface processes and landforms: 2nd edition, Prentice Hall, Upper Saddle River, NJ, 546 p., illus. incl. 7 tables, 12 plates, block diag., sects., geol. sketch maps, 2500 ref., 1999. ISBN: 0-13-860958-6 (1st ed., 1993, Macmillan Publ. Co.). Individual chapters are not cited separately; includes glossary.

56003400

Scott, K. M. (U. S. Geol. Surv.).

Erosion and sedimentation in the Kenai River, Alaska: **U. S. Geological Survey Professional Paper**, Rep. No. P 1235, 35 p., illus. incl. 5 tables, sketch maps, 50 ref., 1982.

56003401

Moorman, Brian J. (University of Calgary, Earth Science Program, Calgary, AB, Canada) and Michel, Frederick A.

The burial of ice in the proglacial environment on Bylot Island, Arctic Canada: **Permafrost and Periglacial Processes**, 11(3), p. 161-175 (French sum.), illus. incl. sects., geol. sketch maps, 34 ref., September 2000.

56003402

Grab, Stefan (University of the Witwatersrand, Department of Geography and Environmental Studies, Witwatersrand, South Africa).

Stone-banked lobes and environmental implications, High Drakensberg, Southern Africa: **Permafrost and Periglacial Processes**, 11(3), p. 177-187 (French sum.), illus. incl. 2 tables, geol. sketch maps, 33 ref., September 2000.

56003403

**Imhof, Markus (University of Bern, Department of Geography, Bern, Switzerland);
Pierrehumbert, Gilles; Haeberli, Wilfried and Kienholz, Hans.**

Permafrost investigation in the Schilthorn Massif, Bernese Alps, Switzerland: **Permafrost and Periglacial Processes**, 11(3), p. 189-206 (French sum.), illus. incl. geol. sketch maps, 31 ref., September 2000.

56003404

Calmels, Fabrice (CNRS, Morphodynamique Continentale et Côtière, Caen, France) and Coutard, Jean-Pierre.

Expérience de laboratoire sur la mobilisation par cryoreptation d'un dépôt de pente schisteux, grossier et hétérométrique [Laboratory experiment on frost creep movement of a coarse, heterometric schistose slope deposit]: **Permafrost and Periglacial Processes**, 11(3), p. 207-218 (English sum.), illus. incl. 1 table, 14 ref., September 2000.

56003405

Romanovsky, V. E. (University of Alaska, Geophysical Institute, Fairbanks, AK) and Osterkamp, T. E.

Effects of unfrozen water on heat and mass transport processes in the active layer and permafrost: **Permafrost and Periglacial Processes**, 11(3), p. 219-239 (French sum.), illus. incl. 1 table, 54 ref., September 2000.

56003406

Isaksen, Ketil (University of Oslo, Department of Physical Geography, Oslo, Norway); Odegard, Rune Strand; Eiken, Trond and Sollid, Johan Ludvig.

Composition, flow and development of two tongue-shaped rock glaciers in the permafrost of Svalbard: **Permafrost and Periglacial Processes**, 11(3), p. 241-257 (French sum.), illus. incl. 5 tables, sketch map, 43 ref., September 2000.

56003407

Gilbert, Robert (Queen's University, Department of Geography, Kingston, ON, Canada).
A Pleistocene frost-heaved dome in Palaeozoic limestone at Kingston, Ontario, Canada: **Permafrost and Periglacial Processes**, 11(3), p. 259-265 (French sum.), illus. incl. sect., sketch maps, 26 ref., September 2000.

56003408

Krainer, Karl (University of Innsbruck, Institute for Geology and Paleontology, Innsbruck, Austria) and Mostler, Wolfram.

Reichenkar rock glacier; a glacier derived debris-ice system in the western Stubai Alps, Austria: **Permafrost and Periglacial Processes**, 11(3), p. 267-275 (French sum.), illus. incl. geol. sketch maps, 43 ref., September 2000.

56003409

Bukatov, A. E. (Natsional'naia Akademii Nauk Ukrayny, Morskoi Gidrofizicheskii Institut, Sevastopol, Ukraine) and Zav'ialov, D. D.

Vliianie sdviga i inertsi vtrashchenii poperechnykh sechenii na kolebaniia plavaiushchego ledyanogo pokrova [Influence of shear and inertia of cross sections rotation on oscillations of floating ice cover]: **Morskoi Gidrofizicheskii Zhurnal**, 2000(6), p. 28-35 (English sum.), illus., 12 ref., December 2000.

56003410

Matishov, G. G. (Rossiiskaia Akademii Nauk, Murmanskii Morskoi Biologicheskii Institut, Russian Federation); Denisov, V. V.; Chinarina, A. D. and Kirillova, E. E.

Dinamika ekosistem i bioresursov Evropeiskikh morei Rossii [Dynamics of ecosystem and bioresources of European seas in Russia]: **Izvestiia Akademii Nauk, Rossiiskaia Akademii Nauk, Seriia Geograficheskaiia**, 2000(6), p. 28-36 (English sum.), illus. incl. 2 tables, 24 ref., December 2000.

56003411

Nikolaeva, E. A. (Rossiiskaia Akademii Nauk, Institut Geografii, Russian Federation).

Indikatsiya tekhnogenного загрязнения компонентов тундровых экосистем по данным цифровой космической съемки [Technogenic pollution indication in compounds of tundra ecosystems through digital multispectral scanner images]: **Izvestiia Akademii Nauk, Rossiiskaia Akademii Nauk, Seriia Geograficheskaiia**, 2000(6), p. 89-97 (English sum.), illus. incl. 1 table, 19 ref., December 2000.

56003413

Pogorelov, A. V.

Snezhnye resursy Bol'shogo Kavkaza [Snow resources of Greater Caucasus]: **Izvestiia Russkogo Geograficheskogo Obshchestva**, 133(2), p. 43-49, illus. incl. 3 tables, 18 ref., April 2001.

56003414

Onuchin, A. A. (Rossiiskaia Akademii Nauk, Sibirskoe Otdelenie, Institut Lesa, Russian Federation).

Obshchie zakonomernosti snegonakopleniya v boreal'nykh lesakh [General peculiarities of snow storage in boreal forests]: **Izvestiia Akademii Nauk, Rossiiskaia Akademii Nauk, Seriia Geograficheskaiia**, 2001(2), p. 80-86 (English sum.), illus., 42 ref., April 2001.

56003415

Pospelov, I. N. (Rossiiskaia Akademii Nauk, Institut Problem Ekologii i Evolyutsii, Russian Federation).

Osobennosti prirody basseina oz. Levinson-Lesinga (Tsentr'nyy Taimyr) [Natural features of Levinson-Lessing Lake basin, central Taimyr]: **Izvestiia Akademii Nauk, Rossiiskaia Akademii Nauk, Seriia Geograficheskaiia**, 2001(2), p. 87-95 (English sum.), illus., 5 ref., April 2001.

56003416

Makkaveev, A. N. (Rossiiskaia Akademii Nauk, Institut Geografii, Russian Federation).

Vklad A. A. Aseeva v gleyatsial'nuiu geomorfologiju [Contribution of A. A. Aseev to glacial geomorphology; dedicated to 75th anniversary]: **Izvestiia Akademii Nauk, Rossiiskaia Akademii Nauk, Seriia Geograficheskaiia**, 2001(2), p. 110-114, 12 ref., April 2001.

56003417

Romanovskii, N. N. (Moskovskii Gosudarstvennyy Universitet im. M. V. Lomonosova, Russian Federation) and Hubberten, H. W.

Formirovanie i evolyutsiya kriolitozony shel'fa i primorskikh nizmennostei (na primere regiona morya Laptevykh) [Shelf and lowland permafrost formation and evolution; Laptev Sea region]: **Izvestiia Akademii Nauk, Rossiiskaia Akademii Nauk, Seriia Geograficheskaiia**, 2001(3), p. 15-28 (English sum.), illus., 62 ref., June 2001.

56003418

Priemé, A. (Copenhagen University, Department of Population Biology, Copenhagen, Denmark) and Christensen, S.

Natural perturbations, drying-wetting and freezing-thawing cycles, and the emission of nitrous oxide, carbon dioxide and methane from farmed organic soils: **Soil Biology & Biochemistry**, 33(15), p. 2083-2091, illus. incl. 5 tables, 38 ref., December 2001.

56003419

Bukatov, A. E. (NAN Ukrainy, Morskoi Gidrofizicheskii Institut, Sevastopol, Russian Federation) and Bukatov, A. A.

Perenos massy pri nelineinom vzaimodeistvii poverkhnostnykh voln v basseine s plavaiushchim bitym l'dom [Mass transport during the non-linear interaction between surface waves in a basin with a floating broken ice]: **Morskoi Gidrofizicheskii Zhurnal**, 2001(2), p. 3-10 (English sum.), illus., 12 ref., April 2001.

56003420

Maslowski, W. (Naval Postgraduate, Department of Oceanography, Monterey, CA); Marble, D. C.; Walczowski, W. and Semtner, A. J.

On large-scale shifts in the Arctic Ocean and sea-ice conditions during 1979-98: *in* Papers from the international symposium on Sea ice and its interactions with the ocean, atmosphere and biosphere (Jeffries, Martin O., editor; *et al.*), **Annals of Glaciology**, 33, p. 545-550, sketch maps, 15 ref., 2001. *Meeting*: June 19-23, 2000, Fairbanks, AK.

56003421

Lett, Ray and Jackaman, Wayne.

Geochemical exploration models; Volume 1, VMS deposits in south-central British Columbia (NTS 82L/13, L/14, 82M/4, M/5, M/6 and 92P/1E): **Open File - British Columbia. Geological Survey Branch**, Rep. No. 2001-31, 34 p., illus. incl. block diag., 22 tables, geol. sketch maps, 32 ref., January 2002. Includes appendices.

56003422

Groussset, Francis (Université Bordeaux I, Département de Géologie et Océnographie, Talence, France).

Les changements abrupts du climat depuis 60.000 ans [Abrupt climate change over the last 60,000 years]: **Quaternaire (Paris)**, 12(4), p. 203-211 (English sum.), 2001.

56003423

Sofiev, Mikhail A. (Finish Meteorological Institute, Helsinki, Finland) and Galperin, Michael V.

Numerical modeling of the atmospheric transport of toxic pollutants in the Northern Hemisphere: *in* Air pollution modelling and simulation; proceedings of the Second conference (Sportisse, Bruno, editor), **Proceedings - Conference on Air Pollution Modelling and Simulation**, 2, p. 101-110, illus. incl. 4 tables, 26 ref., 2002. *Meeting*: April 9-12, 2001, Champs-sur-Marne, France.

56003425

Héquette, Arnaud (Université du Littoral-Côte d'Opale, Laboratoire de "Géomorphologie Dynamique et Aménagements des Littoraux", Dunkerque, France).

Courants et transports sédimentaires dans la zone littorale; le rôle des courants orbitaux et de downwelling [Currents and sediment transport in the coastal zone; the role of orbital and downwelling currents]: *in Aspects de la recherche en géomorphologie littorale* (Paskoff, Roland, compiler), **Géomorphologie**, 2001(1), p. 5-16 (English sum.), illus. incl. sketch maps, 41 ref., March 2001.

56003426

Nedjai, Rachid (Université J. Fourier, Grenoble, France) and Rovera, Georges.

Déneigement routier par salage et flux de chlorure de sodium dans le lac du Luitel (massif de Belledonne, Alpes du Nord) [Using salt to clear snow from roads, and sodium chloride flux in Lake Luitel, Belledonne Massif, northern Alps]: **Houille Blanche**, 2001(6-7), p. 79-82 (English sum.), 15 ref., 2001.

56003427

Stein, Ruediger, editor (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany).

Circum-Arctic river discharge and its geological record: **International Journal of Earth Sciences**, 89(3), p. 447-677, illus., December 2000. Individual papers are cited separately.

56003428

Kleiber, Hans Peter (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany) and Niessen, Frank.

Variations of continental discharge pattern in space and time; implications from the Laptev Sea continental margin, Arctic Siberia: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 605-616, sects., 2 tables, geol. sketch maps, December 2000.

56003429

Müller, Claudia (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany) and Stein, Ruediger.

Variability of fluvial sediment supply to the Laptev Sea continental margin during late Weichselian to Holocene times; implications from clay-mineral records: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 592-604, sects., geol. sketch maps, December 2000.

56003430

Bauch, Henning A. (GEOMAR Research Center for Marine Geosciences, Kiel, Federal Republic of Germany) and Polyakova, Yelena I.

Late Holocene variations in Arctic shelf hydrology and sea-ice regime; evidence from north of the Lena Delta: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 569-577, sects., 2 tables, geol. sketch maps, December 2000.

56003431

Polyak, Leonid (Ohio State University, Byrd Polar Research Center, Columbus, OH); Levitan, Mikhail A.; Gataullin, Valery; Khusid, Tatiana; Mikhailov, Valery and Mukhina, Valentina.

The impact of glaciation, river-discharge and sea-level change on late Quaternary environments in the southwestern Kara Sea: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 550-562, sects., 1 table, geol. sketch maps, December 2000.

56003432

Sidorchuk, A. Yu. (Moscow State University, Geographical Faculty, Moscow, Russian Federation); Panin, A. V.; Borisova, O. K.; Elias, S. A. and Syvistki, J. P.

Channel morphology and river flow in the northern Russian Plain in the late glacial and Holocene: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 541-549, illus. incl. 2 tables, geol. sketch maps, 15 ref., December 2000.

56003433

Solomon, S. (Geological Survey of Canada, Atlantic, Dartmouth, NS, Canada); Mudie, P. J.; Cranston, R.; Hamilton, T.; Thibaudeau, S. A. and Collins, E. S.

Characterisation of marine and lacustrine sediments in a drowned thermokarst embayment, Richards Island, Beaufort Sea, Canada: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 503-521, illus. incl. sects., 3 tables, sketch map, December 2000. *Foraminifera, Ostracoda, Quaternary, palynomorphs*

56003434

Matthiessen, Jens (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany); Kunz-Pirring, Martina and Mudie, Peta J.

Freshwater chlorophycean algae in Recent marine sediments of the Beaufort, Laptev and Kara seas (Arctic Ocean) as indicators of river runoff: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 470-485, 2 tables, geol. sketch maps, December 2000.

56003435

Rachold, Volker (Alfred Wegener Institute for Polar and Marine Research, Potsdam, Federal Republic of Germany); Grigoriev, Mikhail N.; Are, Felix E.; Solomon, Steve; Reimnitz, Erk; Kassens, Heidemarie and Antonow, Martin.

Coastal erosion vs riverine sediment discharge in the Arctic Shelf seas: *in Circum-Arctic river discharge and its geological record* (Stein, Ruediger, editor), **International Journal of Earth Sciences**, 89(3), p. 450-460, 4 tables, sketch maps, December 2000.

56003436

Shishov, V. V. (Russian Academy of Sciences, Siberian Division, Krasnoyarsk, Russian Federation).

Statistical relationship between El Niño intensity and summer temperature in the subarctic region of Siberia: **Doklady Earth Sciences**, 375A(9), p. 1450-1453, illus., 14 ref., December 2000.

56003437

Basov, I. A. (Russian Academy of Sciences, Institute of the Lithosphere of Marginal Seas, Moscow, Russian Federation); Gorbarenko, S. A. and Khusid, T. A.

Hydrology of the Sea of Okhotsk during the last glaciation inferred from the foraminiferal analysis: **Doklady Earth Sciences**, 375A, p. 1454-1458, illus. incl. sketch map, 14 ref., December 2000.

56003438

Attanasi, Emil D. (U. S. Geological Survey) and Schuenemeyer, John H.

Frontier areas and resource assessment; case of the 1002 area of the Alaska North Slope:

Open-File Report - U. S. Geological Survey, Rep. No. OF 02-0119, 21 p., illus. incl. 3 tables, sketch maps, 10 ref., March 2002. Available from: U. S. Geol. Surv., United States.

56003439

Curran, Janet H. (U. S. Geological Survey, Anchorage, AK).

Baseline channel morphology and bank erosion inventory of South Fork Campbell Creek at Campbell Tract, Anchorage, Alaska, 1999 and 2000: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 01-0288, 82 p., illus. incl. 2 tables, sketch maps, 7 ref., 2001. WWW. Accessed on March 27, 2002; includes appendices.

<http://water.usgs.gov/pubs/ofr01-288/>

56003440

Chumakov, N. M. (Russian Academy of Sciences, Geological Institute, Moscow, Russian Federation).

General trend of climatic changes on the Earth during the last 3 Ga: **Doklady Earth Sciences**, 381A(9), p. 1034-1037, illus., 15 ref., December 2001.

56003441

Skermer, N. A. (EBA Engineering Consultants, Vancouver, BC, Canada); Rawlings, G. E. and Hurley, A. J.

Debris flow defences at Aoraki Mount Cook Village, New Zealand: **Quarterly Journal of Engineering Geology and Hydrogeology**, 35, Part 1, p. 19-24, illus. incl. 1 table, 7 ref., February 2002.

56003442

Haselton, Kirk (Universität Potsdam, Institut für Geowissenschaften, Potsdam, Federal Republic of Germany); Hilley, George and Strecker, Manfred R.

Average Pleistocene climatic patterns in the southern Central Andes; controls on mountain glaciation and paleoclimate implications: **Journal of Geology**, 110(2), p. 211-226, illus. incl. 2 tables, sketch maps, 60 ref., March 2002.

56003443

Rahmstorf, Stefan (Potsdam Institute for Climate Impact Research Potsdam, Climate System Department, Potsdam, Federal Republic of Germany) and Alley, Richard.

Stochastic resonance in glacial climate: **Eos, Transactions, American Geophysical Union**, 83(12), p. 129, 135, illus., 14 ref., March 19, 2002.

56003444

Subetto, Dmitry A. (Russian Academy of Sciences, Institute of Limnology, Saint Petersburg, Russian Federation); Wohlfarth, Barbara; Davydova, Natalya N.; Sapelko, Tatyana V.; Bjorkman, Leif; Solovieva, Nadja; Wastegard, Stefan; Possnert, Goran and Khomutova, Valentina I.

Climate and environment on the Karelian Isthmus, northwestern Russia, 13 000-9000 cal. yrs BP: **Boreas**, 31(1), p. 1-19, illus. incl. 6 tables, sketch maps, 46 ref., March 2002. *diatoms, lower Holocene, pollen, upper Pleistocene*

56003445

Wu Naiqin (Chinese Academy of Sciences, Institute of Geology and Geophysics, Beijing, China); Liu Tungsheng; Liu Xiuping and Gu Zhaoyan.

Mollusk record of millennial climate variability in the Loess Plateau during the last glacial maximum: **Boreas**, 31(1), p. 20-27, illus. incl. sketch maps, 48 ref., March 2002.

56003446

St. John, Kristen E. K. (Appalachian State University, Department of Geology, Boone, NC) and Krissek, Lawrence A.

The late Miocene to Pleistocene ice-rafting history of Southeast Greenland: **Boreas**, 31(1), p. 28-35, illus. incl. 1 table, sketch map, 58 ref., March 2002. *Foraminifera, nannofossils*

56003447

Noormets, Riko (Stockholm University, Department of Geology and Geochemistry, Stockholm, Sweden) and Floden, Tom.

Glacial deposits and late Weichselian ice-sheet dynamics in the northeastern Baltic Sea: **Boreas**, 31(1), p. 36-56, illus. incl. sects., 1 table, geol. sketch maps, 72 ref., March 2002.

56003448

Ojala, Antti E. K. (Geological Survey of Finland, Espoo, Finland) and Francus, Pierre.

Comparing X-ray densitometry and BSE-image analysis of thin section in varved sediments: **Boreas**, 31(1), p. 57-64, illus. incl. 1 table, sketch map, 29 ref., March 2002.

56003449

Marren, Philip M. (Keele University, School of Earth Sciences and Geography, United Kingdom).

Glacier margin fluctuations, Skaftafellsjokull, Iceland; implications for sandur evolution: **Boreas**, 31(1), p. 75-81, illus. incl. 1 table, sketch map, 22 ref., March 2002.

56003450

Knies, Jochen (Geological Survey of Norway, Trondheim, Norway); Matthiessen, Jens; Vogt, Christoph and Stein, Ruediger.

Evidence of “mid-Pliocene (~3 Ma) global warmth” in the eastern Arctic Ocean and implications for the Svalbard/Barents Sea ice sheet during the late Pliocene and early Pleistocene (~3-1.7 Ma): **Boreas**, 31(1), p. 82-93, illus. incl. strat. cols., sketch map, 55 ref., March 2002.

56003451

Wasson, Robert J. (Australian National University, Centre for Resource and Environmental Sciences, Canberra, Australia) and Claussen, Martin.

Earth system models; a test using the mid-Holocene in the Southern Hemisphere: *in* Interactions between arid and humid records of Quaternary change in drylands (IGCP 413) (Thomas, David S. G., editor; *et al.*), **Quaternary Science Reviews**, 21(7), p. 819-824, illus., 17 ref., March 2002. *Meeting:* 15th INQUA congress, August 1999, Durban, South Africa. IGCP Project No. 413.

56003452

Johnson, Thomas C. (Large Lakes Observatory, University of Minnesota Duluth, Duluth, MN); Brown, Erik T.; McManus, James; Barry, Sylvia; Barker, Philip and Gasse, Françoise.

A high-resolution paleoclimate record spanning the past 25,000 years in southern East Africa: **Science**, 296(5565), p. 113-114, 131-132, illus. incl. 1 table, 22 ref., April 5, 2002.

56003453

Ferron, Francisco Adolfo (CEA/CNRS, Laboratoire des Sciences du Climat et de l'Environnement, Gif-Sur-Yvette, France) and Simoes, Jefferson Cardia.

O registro de isotopos estaveis de hidrogenio em testemunhos de Gelo da Ilha Rei George, Antarctica [Hydrogen stable isotope record in ice cores from King George Island, Antarctica]: **Pesquisas em Geociencias**, 27(2), p. 87-96 (English sum.), illus. incl. 3 tables, sketch maps, 20 ref., 2000.

56003454

Fogg, Gordon Elliott.

The biology of polar habitats: Oxford University Press, Oxford, United Kingdom, 263 p., 1998. ISBN: 0198549547.

56003455

Leuschner, Dirk C. (GeoForschungsZentrum Potsdam, Potsdam, Federal Republic of Germany) and Sirocko, Frank.

The low-latitude monsoon climate during Dansgaard-Oeschger cycles and Heinrich events: *in* Past global changes and their significance for the future (Alverson, Keith D., editor; *et al.*), **Quaternary Science Reviews**, 19(1-5), p. 243-254, illus. incl. sketch maps, 75 ref., January 2000.

56003456

Stocker, Thomas F. (University of Bern, Physics Institute, Bern, Switzerland).

Past and future reorganizations in the climate system: *in* Past global changes and their significance for the future (Alverson, Keith D., editor; *et al.*), **Quaternary Science Reviews**, 19(1-5), p. 301-319, illus. incl. 2 tables, sketch map, 145 ref., January 2000.

56003457

Jouzel, J. (CNRS, Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette, France); Hoffmann, G.; Koster, R. D. and Masson, V.

Water isotopes in precipitation; data/model comparison for present-day and past climates: *in* Past global changes and their significance for the future (Alverson, Keith D., editor; *et al.*), **Quaternary Science Reviews**, 19(1-5), p. 363-379, illus. incl. 1 table, sketch maps, 70 ref., January 2000. *Holocene*

56003458

Gao, Cunhai (University of Cambridge, Department of Geography, Cambridge, United Kingdom); Keen, David H.; Boreham, Steve; Coope, G. Russell; Pettit, Mary E.; Stuart, Anthony J. and Gibbard, Philip L.

Last interglacial and Devensian deposits of the River Great Ouse at Woolpack Farm, Fenstanton, Cambridgeshire, UK: **Quaternary Science Reviews**, 19(8), p. 787-810, illus. incl. sects., 8 tables, sketch maps, 79 ref., April 2000.

56003459

Knight, Peter G. (Keele University, School of Earth Sciences and Geography, Keele, United Kingdom); Patterson, Carrie J.; Waller, Richard I.; Jones, Alison P. and Robinson, Zoe P. Preservation of basal-ice sediment texture in ice-sheet moraines: **Quaternary Science Reviews**, 19(13), p. 1255-1258, illus., 18 ref., September 2000.

56003460

Bridgland, D. R. (University of Durham, Department of Geography, Durham, United Kingdom).

River terrace systems in North-west Europe; an archive of environmental change, uplift and early human occupation: **Quaternary Science Reviews**, 19(13), p. 1293-1303, illus. incl. sects., 95 ref., September 2000.

56003461

O'Cofaigh, Colm (University of Alberta, Department of Earth and Atmospheric Sciences, Edmonton, AB, Canada); England, John and Zreda, Marek.

Late Wisconsinan glaciation of southern Eureka Sound; evidence for extensive Innuitian ice in the Canadian high arctic during the last glacial maximum: **Quaternary Science Reviews**, 19(13), p. 1319-1341, illus. incl. 3 tables, sketch maps, 65 ref., September 2000.

56003462

Clark, Chris D. (University of Sheffield, Department of Geography and Sheffield Centre for Earth Observation Science, Sheffield, United Kingdom); Knight, Jane K. and Gray, James T.

Geomorphological reconstruction of the Labrador sector of the Laurentide ice sheet: **Quaternary Science Reviews**, 19(13), p. 1343-1366, illus. incl. 1 table, sketch maps, 79 ref., September 2000.

56003463

Huuse, Mads (University of Aarhus, Department of Earth Sciences, Aarhus, Denmark) and Lykke-Andersen, Holger.

Overdeepened Quaternary valleys in the eastern Danish North Sea; morphology and origin: **Quaternary Science Reviews**, 19(12), p. 1233-1253, illus. incl. sketch maps, 122 ref., August 2000.

56003464

Helmens, Karin F. (University of Lapland, Arctic Centre, Rovaniemi, Finland); Rasanen, Matti E.; Johansson, Peter W.; Jungner, Hogne and Korjonen, Kari.

The last interglacial-glacial cycle in NE Fennoscandia; a nearly continuous record from Sokli (Finnish Lapland): **Quaternary Science Reviews**, 19(16), p. 1605-1623, illus. incl. 2 tables, strat. cols., sketch maps, 54 ref., November 2000.

56003465

Matthews, John A. (University of Wales, Department of Geography, Swansea, United Kingdom); Dahl, Svein Olaf; Nesje, Atle; Berrisford, Mark S. and Andersson, Carin.
Holocene glacier variations in central Jotunheimen, southern Norway based on distal glaciolacustrine sediment cores: **Quaternary Science Reviews**, 19(16), p. 1625-1647, illus. incl. 2 tables, sketch map, 108 ref., November 2000.

56003466

Stewart, Iain S. (Brunel University, Department of Geography and Earth Sciences, Uxbridge, United Kingdom); Sauber, Jeanne and Rose, James, editors.
Glacio-seismotectonics; ice sheets, crustal deformation and seismicity: **Quaternary Science Reviews**, 19(14-15), p. 1367-1562, illus. incl. tables, sketch maps, October 2000. Individual papers are cited separately.

56003467

Stewart, Iain S. (Brunel University, Department of Geography and Earth Sciences, Uxbridge, United Kingdom); Sauber, Jeanne and Rose, James.
Glacio-seismotectonics; ice sheets, crustal deformation and seismicity: *in* Glacio-seismotectonics; ice sheets, crustal deformation and seismicity (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1367-1389, illus. incl. 1 table, block diag., sketch maps, 174 ref., October 2000.

56003468

Thorson, Robert M. (University of Connecticut, Department of Geology and Geophysics, Storrs, CT).
Glacial tectonics; a deeper perspective: *in* Glacio-seismotectonics; ice sheets, crustal deformation and seismicity (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1391-1398, illus., 44 ref., October 2000.

56003469

Muir-Wood, Robert (RMS, London, United Kingdom).
Deglaciation seismotectonics; a principal influence on intraplate seismogenesis at high latitudes: *in* Glacio-seismotectonics; ice sheets, crustal deformation and seismicity (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1399-1411, illus. incl. 1 table, sketch maps, 41 ref., October 2000.

56003470

Fjeldskaar, Willy (RF-Rogaland Research, Stavenger, Norway); Lindholm, Conrad D.; Dehls, John F. and Fjeldskaar, Ingrid.
Postglacial uplift, neotectonics and seismicity in Fennoscandia: *in* Glacio-seismotectonics; ice sheets, crustal deformation and seismicity (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1413-1422, illus. incl. 1 table, sketch maps, 24 ref., October 2000.

56003471

Hicks, Erik C. (NORSAR, Kjeller, Norway); Bungum, Hilmar and Lindholm, Conrad D.
Seismic activity, inferred crustal stresses and seismotectonics in the Rana region, Northern Norway: *in* Glacio-seismotectonics; ice sheets, crustal deformation and seismicity (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1423-1436, illus. incl. 1 table, sketch maps, 66 ref., October 2000.

56003472

Roberts, David (Geological Survey of Norway, Trondheim, Norway).

Reverse-slip offsets and axial fractures in road-cut boreholes from the Caledonides in Finnmark, Northern Norway; neotectonic stress orientation indicators: *in Glacio-seismotectonics; ice sheets, crustal deformation and seismicity* (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1437-1445, illus. incl. geol. sketch maps, 31 ref., October 2000.

56003473

Dehls, John F. (Geological Survey of Norway, Trondheim, Norway); Olesen, Odleiv; Olsen, Lars and Blikra, Lars Harald.

Neotectonic faulting in Northern Norway; the Stuoragurra and Nordmannvikdalen postglacial faults: *in Glacio-seismotectonics; ice sheets, crustal deformation and seismicity* (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1447-1460, illus. incl. block diag., sect., sketch maps, 29 ref., October 2000.

56003474

Morner, Nils-Axel (Stockholm University, Paleogeophysics and Geodynamics, Stockholm, Sweden); Troftén, Per-Einar; Sjöberg, Rabbe; Grant, Douglas; Dawson, Sue; Bronge, Christian; Kvamsdal, Ole and Siden, Alf.

Deglacial paleoseismicity in Sweden; the 9663 BP Iggesund Event: *in Glacio-seismotectonics; ice sheets, crustal deformation and seismicity* (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1461-1468, illus. incl. 1 table, sketch map, 26 ref., October 2000.

56003475

Firth, Callum R. (Brunel University, Department of Geography and Earth Sciences, Middlesex, United Kingdom) and Stewart, Iain S.

Postglacial tectonics of the Scottish glacio-isostatic uplift centre: *in Glacio-seismotectonics; ice sheets, crustal deformation and seismicity* (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1469-1493, illus. incl. 5 tables, sketch maps, 112 ref., October 2000.

56003476

James, Thomas S. (Geological Survey of Canada, Pacific Geoscience Centre, Sidney, BC, Canada); Clague, John J.; Wang, Kelin and Hutchinson, Ian.

Postglacial rebound at the northern Cascadia subduction zone: *in Glacio-seismotectonics; ice sheets, crustal deformation and seismicity* (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1527-1541, illus. incl. 1 table, sketch maps, 62 ref., October 2000.

56003477

Meigs, Andrew (Oregon State University, Department of Geosciences, Corvallis, OR) and Sauber, Jeanne.

Southern Alaska as an example of the long-term consequences of mountain building under the influence of glaciers: *in Glacio-seismotectonics; ice sheets, crustal deformation and seismicity* (Stewart, Iain S., editor; *et al.*), **Quaternary Science Reviews**, 19(14-15), p. 1543-1562, illus. incl. sects., sketch maps, 88 ref., October 2000.

56003479

Merrill, Kelly S., editor (CH2M HILL, Anchorage, AK).

Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference: **Proceedings of the International Symposium on Cold Regions Engineering**, 11, 1073 p., illus., 2002. ISBN: 0-7844-0621-9. Meeting: May 20-22, 2002, Anchorage, AK. Individual papers are cited separately.

56003480

Sorensen, Steven (Alyeska Pipeline Service Company, Fairbanks, AK); Smith, Jason and Zarling, John P.

Thermal performance of TAPS heat pipes with non condensable gas blockage: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 1-12, illus., 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003481

Veldman, Wim M. (Alyeska Pipeline Service Company, Fairbanks, AK) and Ferrell, John E.

Lessons learned for river crossing designs from four major floods experienced along the Trans Alaska Pipeline: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 13-38, illus. incl. sketch map, 9 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003482

Tart, Rupert G., Jr. (Golder Associates, Anchorage, AK) and Ferrell, John E.

Performance of the Squirrel Creek slopes steep slopes on discontinuous permafrost: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 39-49, illus., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003483

Sorensen, Steven (Alyeska Pipeline Service Company, Fairbanks, AK); Meyer, Keith and Carson, Paul.

Analytic model for the evaluation of inclined piling in permafrost: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 50-61, illus., 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003484

Major, Graeme (Golder Associates, Reno, NV); Tart, Rupert G., Jr. and Krontz, Deborah J.

Performance of the PVR rock slope at Valdez marine terminal: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 62-71, illus. incl. 1 table, 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003485

Anderson, Steven L. (Golder Associates); Lai, Alexandre and Tart, Rupert G., Jr.

Evaluation of buried secondary containment liners: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 72-82, illus. incl. 1 table, 8 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003486

Roach, Christopher H. (Alyeska Pipeline Service Company, Fairbanks, AK); Shoulders, MacNamara C. and Carlson, Robert F.

Assessment, design, and some lessons learned from application of natural channel design principles in conversion of a multiple thread to single thread channel on an alluvial fan: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 83-98, illus. incl. 2 tables, 12 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003487

Meyer, Keith (Michael Baker Jr., Anchorage, AK); Carson, Paul and Maple, James.

Analysis of aboveground pipeline insulation in contact with vertical support members: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 99-109, illus. incl. 1 table, 1 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003488

Hart, James D. (SSD, Reno, NV); Powell, Graham H.; Hackney, David and Zulfiqar, Nasir. Geometry monitoring of the Trans-Alaska Pipeline: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 110-121, illus., 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003489

Norton, J. David (J. D. Norton and Associates) and Miller, Janna Endell.

Useful life of the Trans-Alaska Pipeline: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 122-133, 18 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003490

Norton, J. David (J. D. Norton and Associates); Jokela, Brett; Haas, Erik and Dugan, Robert G.

Environmental impact of 25 years of Trans-Alaska Pipeline operation: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 134-145, illus., 8 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003491

Cowherd, David C. (CBC Engineers and Associates, Centerville, OH).

A method for design of flexible buried structures in permafrost areas: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 146-157, illus. incl. 5 tables, 5 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003492

Huang, Scott (University of Alaska at Fairbanks, Department of Mining and Geological Engineering, Fairbanks, AK); Akagawa, Satoshi; Tanaka, Toshiya; Ono, Takashi; Nasu, Yuhki; O'Hashi, Kazuhiko and Fukuda, Masami.

Ground temperature variation induced by a buried chilled gas pipeline: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 158-169, illus. incl. 1 table, 2 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003493

Hart, James D. (SSD, Reno, NV); Carson, Dean; Zulfiqar, Nasir and Lust, Scott D.

Wind-induced vibration monitoring program for Alpine pipelines: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 170-181, illus., 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003494

Aho, John L. (CH2M HILL, Anchorage, AK); Ottesen, Jeff; Galligan, Don; Sterley, Dan; Burden, Patrick and Wong, Bill.

An examination of resource transportation alternatives in Northwest Alaska: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 182-193, illus. incl. 1 table, 3 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003495

Witt, Paul (HDR Alaska, Anchorage, AK); Moses, Thomas and Frandina, Frank P.

Whittier Access Project; conversion of existing 4 km (2.5 mile) long railroad tunnel to a dual-use single-lane highway/railroad facility: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 194-206, illus. incl. 2 tables, 12 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003496

Frandina, Frank P. (Hatch Mott MacDonald, Buffalo, NY) and Witt, Paul.

Design of the reconstruction of the Anton Anderson Memorial Tunnel: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 207-218, illus., 1 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003497

Tattersall, Christopher (Hatch Mott MacDonald, Mississauga, ON, Canada); Mitchells, Richard; Gallion, Eric and Weller, Robert.

Water and ice control in the Anton Anderson Memorial Tunnel, Whittier, Alaska: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 219-229, illus., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003498

Ferraro, Joseph J. (Ferraro Choi and Associates, Honolulu, HI) and Brooks, William D.

Sustainable design strategies for the modernization of the Amundsen-Scott South Pole station: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 230-241, illus., 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003499

Cummings, W. Mark (Fire Risk Management, Wiscasset, ME) and Carpenter, Douglas.

Performance-based analysis of ARFF requirements for airfields at McMurdo and South Pole stations, Antarctica: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 242-254, illus. incl. 3 tables, 7 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003500

Walsh, Michael R. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

Tunneling at the South Pole: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 255-266, illus. incl. 1 table, 10 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5847

56003501

Mattingly, Stephen P. (University of Alaska at Fairbanks, Department of Civil and Environmental Engineering, Fairbanks, AK) and Ma, Zhongguo John.

Selecting a guardrail end terminal for high snowfall regions: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 267-277, illus. incl. 3 tables, 9 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003502

Gustavsson, Henry (Helsinki University of Technology, Department of Civil and Environmental Engineering, Helsinki, Finland); Ravaska, Olli and Hermansson, Ake.

The effect of insulation on road surface icing: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 278-289, illus. incl. 4 tables, 9 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003503

Raad, Lutfi (University of Alaska at Fairbanks, Department of Civil and Environmental Engineering, Fairbanks, AK); Lu, John and Hulsey, J. Leroy.

Traction performance of transit and paratransit vehicles on ice and snow surfaces: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 290-298, illus. incl. 4 tables, 8 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003504

Janoo, Vincent C. (U. S. Army Cold Regions Research and Engineering Laboratory, Engineering Research and Development Center, Hanover, NH).

Performance of base/subbase materials under frost action: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 299-310, illus. incl. 7 tables, 20 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5848

56003505

Shoop, S. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, OH); Haehnel, Robert R.; Janoo, Vincent C. and Harjes, D.

Seasonal deterioration of unsurfaced roads: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 311-322, illus., 8 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5849

56003506

Evans, Mark D. (U. S. Military Academy, Department of Civil and Mechanical Engineering, West Point, NY); Henry, Karen S.; Hayden, Scott A. and Reese, Morgan.

The use of geocomposite drainage layers to mitigate frost heave in soils: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 323-335, illus. incl. 2 tables, 11 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5850

56003507

Bethard, Todd (University of Alaska at Anchorage, School of Engineering, Anchorage, AK) and Zubeck, Hannele.

Polymer-modified asphalt emissions from Alaskan hot plants; a questionnaire study: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 336-347, illus. incl. 4 tables, 7 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003508

Doré, Guy (Laval University, Civil Engineering Department, Quebec City, PQ, Canada) and Imbs, Cedric.

Development of a new mechanistic index to predict pavement performance during spring thaw: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 348-359, illus., 5 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003509

Janoo, Vincent C. (U. S. Army Cold Regions Research and Engineering Laboratory, Engineering Research and Development Center, Hanover, NH) and **Cortez, Edel.**

Pavement evaluation in cold regions: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 360-371, illus. incl. 1 table, 10 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5851

56003510

Hinzmann, John J., Jr. (Short Elliott Hendrickson, Project Engineer, Duluth, MN); **Krzewinski, Thomas G.** and **Prusak, David J.**

City of Duluth, Minnesota; long-term street improvement program: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 372-381, illus., 5 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003511

Kestler, Maureen A. (U. S. Department of Agriculture, Forest Service, Laconia, NH); **Berg, Richard L.**; **Nam, Sae-Im** and **Smith, Charles E.**

Reduced tire pressure; review of an alternate road usage technique for reducing springtime damage on low volume roads: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 382-393, 15 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5852

56003512

Rantanen, Taina (A-Tie Engineering, Tampere, Finland).

Investigate, analyse, make decisions; the procedure for rehabilitation of roads: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 394-399, illus. incl. 1 table, 3 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003513

Hulsey, J. Leroy (University of Alaska at Fairbanks, Department of Civil and Environmental Engineering, Fairbanks, AK); **Raad, Lutfi** and **Connor, Billy.**

Deck wearing surfaces for the Yukon River Bridge: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 400-411, illus. incl. 2 tables, 11 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003514

Christopherson, Alan B. (Nottingham & Drage, Anchorage, AK); Braun, Kenton W.; Thieman, Dempsey S. and Hardison, Jasper H., III.

Performance of Kuparuk River submersible bridges and low water roadway: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 412-423, illus. incl. 1 table, 7 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003515

Mangus, Alfred R. (California Department of Transportation, Sacramento, CA).

Orthotropic steel deck bridges constructed in cold regions: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 424-435, illus., 25 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003516

Nottingham, Dennis (Nottingham & Drage, Anchorage, AK); Thieman, Dempsey S. and Braun, Kenton.

Design, construction, and performance of open cell sheet pile bridge abutments: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 436-447, illus., 5 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003517

Fuji, Toshishige (Railway Technical Research Institute, Head of Meteorological Disaster Prevention Laboratory, Tokyo, Japan); Kawashima, Katsuhisa; Iikura, Shigehiro; Endo, Toru and Izunami, Ryoji.

Preventive measures against snow for high-speed train operation in Japan: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 448-459, illus. incl. sketch map, 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003518

Liu Jiankun (Northern Jiaotong University, School of Civil Engineering, Beijing, China) and Kronick, Ya. A.

Modelling the cutting and filling process of roadbed construction on permafrost: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 460-466, illus. incl. 1 table, 8 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003519

Kondratiev, V. G. (TransEGEM, Moscow, Russian Federation).

Design and experience; controlling railroad embankment deformation on ice-rich permafrost: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 467-482, illus., 20 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003520

Liu, He (University of Alaska at Anchorage, School of Engineering, Anchorage, AK) and Scott, William N.

Seismic evaluation and retrofit strategies for the University of Alaska Anchorage engineering building: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 483-494, illus. incl. 5 tables, 17 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003521

Liu, He (University of Alaska at Anchorage, School of Engineering, Anchorage, AK) and Schubert, Daniel H.

Water storage tank response to earthquake loads in Alaska; predictive modeling by the finite element method: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 495-506, illus. incl. 4 tables, 10 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003522

Evans, Simon A. (University of Alaska Anchorage, Civil Engineer Department, Anchorage, AK); Liu, He and Gaulke, Michael S.

Dynamic analysis and design of a remote monitoring tower subjected to avalanche loading: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 507-518, illus. incl. 2 tables, 18 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003523

Bargar, H. Ed (University of Alaska Fairbanks, Department of Mechanical Engineering, Fairbanks, AK) and Das, Debendra K.

Building pressurization in extreme cold climates: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 519-530, illus., 11 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003524

Korhonen, Charles (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

New developments in cold-weather concreting: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 531-537, illus., 5 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

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56003525

Woodworth, John R. (Northland Consulting Engineers, Principal Structural Engineer, Duluth, MN) and Krzewinski, Thomas G.

Townhome complex foundation failure due to frost action investigation and repair: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 538-549, illus., 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003526

Zubeck, Hannele (University of Alaska Anchorage, Civil Engineering Department, Anchorage, AK) and Liu, He.

Design of helical piers in frozen silt: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 550-560, illus. incl. 3 tables, 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003527

Stormer, Carl (Tryck Nyman Hayes, Anchorage, AK); Field, Mike and Daley, John.

Design considerations for small boat harbors in cold regions: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 561-571, illus., 11 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003528

Smith, Orson P. (University of Alaska Anchorage, School of Engineering, Anchorage, AK).

Cold regions port engineering: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 572-580, illus., 19 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003529

Visser, Robert C. (Belmar Engineering, Redondo Beach, CA).

Osprey; a new platform in Cook Inlet, Alaska: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 581-591, illus. incl. 2 tables, 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003530

Wang, Xin (C&R Consultant, Doctor of Engineering, Tokyo, Japan); Ayuta, Koichi and Ono, Sadamu.

Pore structure and degree of saturation of mortar affected by seawater and freeze-thaw action: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 592-604, illus., 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003531

Pawlowski, Robert J. (Thales GeoSolutions, Anchorage, AK); Brooks, Paul D. and Oswald, John L.

Emerging survey technologies for Alaska's coastal zone: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 605-616, illus., 10 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003532

Barker, Anne (National Research Council, Canadian Hydraulics Centre, Ottawa, ON, Canada); Sayed, Mohamed and Timco, Garry.

Numerical simulation of ice interaction with a wide cylindrical pier: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 617-628, illus. incl. 2 tables, 15 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003533

Goering, Douglas J. (University of Alaska at Fairbanks, Department of Mechanical Engineering, Fairbanks, AK).

Convective cooling in open rock embankments: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 629-644, illus. incl. 1 table, 15 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003534

Forsstrom, Anna (Lulea University of Technology, Department of Civil and Mining Engineering, Lulea, Sweden); Long, Erwin L.; Zarling, John P. and Knutsson, Sven.

Thermosyphon cooling of Chena Hot Springs Road: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 645-655, illus. incl. 2 tables, 5 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003535

Yarmak, Edward, Jr. (Arctic Foundations, Anchorage, AK) and Long, Erwin L.

Recent developments in thermosyphon technology: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 656-662, illus. incl. 1 table, 3 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003536

Guthrie, W. Spencer (Texas A&M University, Texas Transportation Institute, College Station, TX); Hermansson, Ake and Scullion, Tom.

Determining aggregate frost susceptibility with the tube suction test: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 663-674, illus. incl. 2 tables, 18 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003537

Nishikawa, Jun'ichi (Civil Engineering Research Institute of Hokkaido, Geotechnical Division, Sapporo, Japan) and Sakuraba, Mitsuru.

Frost heave experiment in open pit: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference* (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 675-682, illus. incl. 3 tables, 3 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003538

Ladanyi, Branko (Ecole Polytechnique, Montreal, PQ, Canada).

Behavior of ice/rock mixtures on slopes: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 683-699, illus., 43 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003539

Scher, R. L. (R&M Consultants, Anchorage, AK).

Alaska air temperature indices; design "warm" winter: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 700-711, illus. incl. 4 tables, 15 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003540

Vinson, Ted S. (Oregon State University, Department of Civil, Construction and Environmental Engineering, Corvallis, OR) and Bae, Yoon-Shin.

Probabilistic analysis of thaw penetration in Fairbanks, Alaska: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 712-723, illus. incl. 3 tables, 20 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003541

Jin Huijun (Chinese Academy of Sciences, Cold and Arid Regions Environmental and Engineering Research Institute, Lanzhou, China); Brewer, Max C. and Perkins, Robert A.

Ground temperatures across the old and new roads at Mile 130, Richardson Highway during 1954-62: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 724-735, illus. incl. 2 tables, 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003542

Shur, Yuri (University of Alaska at Fairbanks, Department of Civil and Environmental Engineering, Fairbanks, AK); Vasiliev, Alexander; Kanevsky, Michael; Maximov, Vitaly; Pokrovsky, Sergei and Zaikanov, Viacheslav.

Shore erosion in Russian Arctic: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 736-747, illus. incl. 3 tables, 12 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003543

Haehnel, Robert B. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Mulherin, Nathan D. and Tuthill, Andrew M.

Advances in icing control at navigation and hydroelectric structures: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 748-760, illus. incl. 4 tables, 19 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5854

56003544

Portaix, C. (Rowan Williams Davies & Irwin, Guelph, ON, Canada) and Druez, J.

Statistical description of the accretion phase of atmospheric icing events: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 761-772, illus. incl. 2 tables, 7 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003545

Haehnel, Robert B. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH) and White, Kathleen D.

Ten years of ice force measurements on the St. Regis River, Hogansburg, NY; 1989-1999: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 773-784, illus. incl. 1 table, 18 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5855

56003546

Zabilansky, Leonard J. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); Haehnel, Robert B. and Clark, Charles H.

Evaluation of dusting for preventing ice jams: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 785-794, illus. incl. sketch map, 9 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5856

56003547

Zabilansky, Leonard J. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH).

Ice cover effects on bed scour; case studies: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 795-803, illus., 7 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5857

56003548

Zufelt, Jon E. (U. S. Army Cold Regions Research and Engineering Laboratory, Ft. Richardson, AK) and Daly, Steven F.

Reservoir operations and their effect on ice regime: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 804-815, illus. incl. 1 table, sketch map, 7 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5858

56003549

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

Ice passage at gated navigation projects in the Upper Ohio River basin: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 816-827, illus. incl. 3 tables, sketch map, 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5859

56003550

Waldow, George (HDR Engineering, Minneapolis, MN) and Bystrom, Brad.

Inflatable crest gates at Mississippi River Lock and Dam I: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 828-837, illus., 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003551

Armstrong, Rachel (University of Alaska at Fairbanks, Department of Civil and Environmental Engineering, Fairbanks, AK) and Carlson, Robert F.

Analysis of rainfall frequency data for Fairbanks Alaska: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 838-843, illus. incl. 2 tables, 6 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003552

Gould, Stephanie (University of Alaska at Fairbanks, Department of Civil and Environmental Engineering, Fairbanks, AK); Barnes, David L. and Carlson, Robert F.

Stormwater management model development for Fairbanks, Alaska: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 844-853, illus. incl. 7 tables, 8 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003553

Shenkman, Boris M. (Russian Academy of Sciences, Institute of the Earth's Crust, Irkutsk, Russian Federation).

Icing regulation of the groundwater flow in the south of East Siberia: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 854-865, illus. incl. 3 tables, geol. sketch map, 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003554

Shenkman, Irina B. (Russian Academy of Sciences, Institute of Earth's Crust, Irkutsk, Russian Federation).

Impacts of urban waste on Irkutsk groundwater: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 866-874, illus. incl. 4 tables, geol. sketch map, 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003555

Shutov, Vladimir A. (Valday Branch of State Hydrological Institute, Valday, Russian Federation).

Hydrology of northern Russia; a case study with application for a pipeline project: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 875-884, illus. incl. 2 tables, 17 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003556

Shutov, Vladimir A. (Valday Branch of State Hydrological Institute, Valday, Russian Federation).

Applications of study results in snow hydrology: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 885-896, illus. incl. 3 tables, 18 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK. Includes appendices.

56003557

Hinds, Cory (URS Corporation, Anchorage, AK); LeMay, Jennifer and Stricklan, Kim.

Evaluating capping alternatives for an Arctic landfill: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 897-909, illus. incl. 5 tables, sketch map, 16 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003558

Magee, Gregory L. (MWH, Anchorage, AK) and Rice, William J.

Rethinking landfill development and operation in permafrost regions: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 910-921, illus., 12 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003559

Merrill, Kelly S. (CH2M HILL, Anchorage, AK); Friedman, Henry and Goodale, Greg.

Design considerations for GCLs used in Alaska landfills: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 922-937, illus. incl. 2 tables, 24 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003560

Foose, Gary J. (University of Cincinnati, Department of Civil and Environmental Engineering, Cincinnati, OH) and Thomson, Robert A., Jr.

Effect of freeze-thaw cycling on the hydraulic conductivity of soil-bentonite mixtures: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 938-947, illus. incl. 2 tables, 13 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003561

Alexeev, Sergey (Russian Academy of Sciences, Institute of the Earth's Crust, Irkutsk, Russian Federation) and Alexeeva, Ludmila.

The peculiarities of utilization of the technogenic waste into permafrost: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 948-955, illus. incl. 4 tables, 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003562

Barnes, David L. (University of Alaska at Fairbanks, Fairbanks, AK); Cosden, Elizabeth; Johnson, Bryan; Johnson, Karol; Stjarnstrom, Stina; Johansson, Karin and Filler, Dennis M.

Operation of soil vapor extraction in cold climates: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 956-967, 4 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003563

Raad, Nada I. (University of Alaska Fairbanks, Civil and Environmental Department, Fairbanks, AK).

Anaerobic biodegradation of benzene under conditions favorable to iron-reduction under environmental conditions of sub-Arctic groundwaters: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 968-979, illus. incl. 1 table, 22 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003564

Filler, Dennis M. (Shannon & Wilson, Fairbanks, AK) and Barnes, David L.

Dynamics of a fuel release in frozen alluvium: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 980-990, illus. incl. 2 tables, 8 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003565

White, Daniel M. (University of Alaska Fairbanks, Department of Civil and Environmental Engineering, Fairbanks, AK); Garland, D. Sarah; Woolard, Craig R. and Narr, Jasprit.

Investigations into disinfection by-product formation and control for small drinking water systems in northern regions: *in* Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), **Proceedings of the International Symposium on Cold Regions Engineering**, 11, p. 991-998, illus. incl. 3 tables, sketch map, 7 ref., 2002. *Meeting:* May 20-22, 2002, Anchorage, AK.

56003566

Graham, Karen (DPRA, Research Analyst, Princeton, NJ); Smith, Daniel W. and Guigard, Selma E.

Investigation of the fate of wastewater phosphorus within the processed kimberlite containment area at BHP's Ekati™ diamond mine: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), Proceedings of the International Symposium on Cold Regions Engineering, 11, p. 999-1008, illus. incl. 2 tables, 4 ref., 2002. Meeting: May 20-22, 2002, Anchorage, AK.*

56003567

White, Kathleen D. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, OH); Reynolds, C. M.; Ringelberg, D.; Foley, K. L. and Perry, L. B.

Laboratory and field investigations of low temperature microbial activity in rivers: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), Proceedings of the International Symposium on Cold Regions Engineering, 11, p. 1009-1019, illus., 16 ref., 2002. Meeting: May 20-22, 2002, Anchorage, AK. CRREL Report No: ERDC/CRREL MP-02-5860*

56003568

Bergin, Tim (Florida Keys Aqueduct Authority, Director-Environmental Services, Key West, FL); Reich, Richard and Crum, James.

Application of vacuum sewer in the North Slope Borough: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), Proceedings of the International Symposium on Cold Regions Engineering, 11, p. 1020-1034, illus. incl. sketch map, 6 ref., 2002. Meeting: May 20-22, 2002, Anchorage, AK.*

56003569

Hulsey, J. Leroy (University of Alaska Fairbanks, Department of Civil Engineering, Fairbanks, AK); Raad, Nada I.; Saboundjian, Steve and Brand, Randy.

Buried utilities for Alaska; dewater or winter work?: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), Proceedings of the International Symposium on Cold Regions Engineering, 11, p. 1035-1046, illus. incl. 2 tables, 6 ref., 2002. Meeting: May 20-22, 2002, Anchorage, AK.*

56003570

Smith, Orson P. (University of Alaska at Anchorage, School of Engineering, Anchorage, AK).

Teaching Arctic engineering online: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), Proceedings of the International Symposium on Cold Regions Engineering, 11, p. 1047-1054, illus., 6 ref., 2002. Meeting: May 20-22, 2002, Anchorage, AK.*

56003571

Walker, Kerry E. (U. S. Army Corps of Engineers, Anchorage, AK).

Successful government funded projects in rural Alaska; the 3 C's; challenges for community involvement: *in Cold regions engineering; cold regions impacts on transportation and infrastructure; proceedings of the Eleventh international conference (Merrill, Kelly S., editor), Proceedings of the International Symposium on Cold Regions Engineering, 11, p. 1055-1066, 27 ref., 2002. Meeting: May 20-22, 2002, Anchorage, AK.*

56003572

Prezzi, Claudia B. (Universidad de Buenos Aires, Departamento de Ciencias Geológicas, Buenos Aires, Argentina) and Alonso, Ricardo N.

New paleomagnetic data from the northern Argentine Puna; Central Andes rotation pattern reanalyzed: **Journal of Geophysical Research, B, Solid Earth and Planets**, 107(2), 18 p., illus. incl. 5 tables, geol. sketch maps, 89 ref., February 10, 2002.

56003579

Canada, Indian and Northern Affairs, Water Resources Division.

Snow survey bulletin & water supply forecast, April 1, 2002; Yukon Territory: 27 p., illus. incl. tables, sketch maps, 2002. ISBN: 0-662-31794-7 Available from: Canada, Indian and Northern Affairs, Water Resources Division, Whitehorse, YT, Canada.

56003595

Smirnova, O. A. (Saint Petersburg State University, Physics Scientific Research Institute, Saint Petersburg, Russian Federation); Ionov, D. V.; Timofeyev, Yu. M. and Vasil'yev, A. V.

TOMS-based assessments of total ozone content over Central and Northern Europe: **Mapping Sciences and Remote Sensing**, 37(3), p. 166-171, illus. incl. 1 table, sketch map, 8 ref., September 2000.

56003596

Kharuk, V. I. (Russian Academy of Sciences, Krasnoyarsk, Russian Federation); Ranson, K. G.; Burenina, T. A.; Onuchin, A. A. and Fedotova, Ye. V.

Microwave remote sensing as a method for estimating snow reserves in forests of the Western Sayan: **Mapping Sciences and Remote Sensing**, 37(3), p. 172-179, illus. incl. 2 tables, sketch map, 13 ref., September 2000. Transl. from the Russian, Geografiya i prirodnyye reserysy, No. 4, p. 85-90, 1999.

56003597

Mogilev, N. Yu. (Russian Academy of Sciences, Solar-Terrestrial Physics Institute, Irkutsk, Russian Federation) and Semovskiy, S. V.

Monitoring changes in Lake Baykal's snow and ice cover using AVHRR imagery: **Mapping Sciences and Remote Sensing**, 37(3), p. 226-231, illus. incl. 1 table, sketch maps, 9 ref., September 2000. Transl. from the Russian, Geografiya i prirodnyye resursy, No. 4, p. 90-93, 1999.

56003598

Murphy, Lin.

History of ice rafting in the North and South Atlantic; 2.6 to 4.6 Ma: 73 p., 75 ref., Master's, September 2000, California State University, Hayward, Hayward, CA.

56003599

Norton, Kevin Patrick.

Quaternary history of the lower St. Louis River and estuary, Lake Superior, northeastern Minnesota: 91 p., illus. incl. 3 tables, 60 ref., Master's, July 2000, University of Minnesota, Duluth, Duluth, MN.

56003600

Sapozhnikov, V. V. (All-Russia Research Institute of Marine Fisheries and Oceanography, Moscow, Russian Federation); Arzhanova, N. V.; Titov, O. V.; Torgunova, N. I. and Rusanov, I. I.

Hydrochemical and microbiological features of Lake Mogil'noe: **Water Resources**, 28(1), p. 54-62, illus. incl. 1 table, 10 ref., February 2001.

56003601

Norrstrom, A. C. (Royal Institute of Technology, Department of Civil and Environmental Engineering, Stockholm, Sweden) and Bergstedt, E.

The impact of road de-icing salts (NaCl) on colloid dispersion and base cation pools in roadside soils: **Water, Air and Soil Pollution**, 127(1-4), p. 281-299, illus. incl. 7 tables, sketch map, 30 ref., April 2001.

56003602

Zhang Lei (Lanzhou University, Department of Atmospheric Sciences, Lanzhou, China); Chen Changhe and Murli, John.

Study on winter air pollution control in Lanzhou, China: **Water, Air and Soil Pollution**, 127(1-4), p. 351-372, illus. incl. 4 tables, sketch map, 14 ref., April 2001.

56003604

Kochetkov, M. V. (Ministerstvo Prirodnykh Resursov, Russian Federation); Seleznev, P. V.; Kulikov, I. V. and Graevskii, A. P.

K voprosu sokhraneniia prirodnoi sredy Arkhicheskikh regionov [Aspects of environmental protection in Arctic regions]: **Razvedka i Okhrana Nedr**, 2001(1), p. 57-59, 6 ref., January 2001.

56003605

Cheam, Ven (National Water Research Institute, Aquatic Ecosystem Protection Research Branch, Burlington, ON, Canada).

Thallium contamination of water in Canada: **Water Quality Research Journal of Canada**, 36(4), p. 851-877, illus. incl. 5 tables, 64 ref., 2001.

56003606

Zaichenko, V. Iu. (Rossiiskoe Geologicheskoe Obshestvo, Russian Federation).

Pravo intellektual'noi sobstvennosti avtorov dokumentirovannoi geologicheskoi informatsii [Intellectual property right of authors to document geological information]: **Mineral'nye Resursy Rossii; Ekonomika i Upravlenie**, 2001(5), p. 70-74, 5 ref., 2001.

56003607

Kasse, Kees (Vrije Universiteit, Department of Quaternary Geology and Geomorphology, Amsterdam, Netherlands) and Bohncke, Sjoerd.

Early Pleistocene fluvial and estuarine records of climate change in the southern Netherlands and northern Belgium: *in* River basin sediment systems; archives of environmental change (Maddy, Darrel, editor; *et al.*), A.A. Balkema Publishers, Netherlands, p. 171-193, illus. incl. sects., strat. col., charts, sketch map, 33 ref., 2001. *Meeting*: 3rd meeting of the Fluvial Archives Group (FLAG), Sept. 1998, Cheltenham, United Kingdom.

56003608

Houben, Peter (J. W. Goethe University Frankfurt am Main, Institute of Physical Geography, Frankfurt am Main, Federal Republic of Germany); Nolte, Sabine; Rittweger, Holger and Wunderlich, Jürgen.

Lateglacial and Holocene environmental change indicated by floodplain deposits of the Hessian Depression (central Germany): *in* River basin sediment systems; archives of environmental change (Maddy, Darrel, editor; *et al.*), A.A. Balkema Publishers, Netherlands, p. 249-264, illus. incl. sects., strat. cols., geol. sketch map, 34 ref., 2001. *Meeting:* 3rd meeting of the Fluvial Archives Group (FLAG), Sept. 1998, Cheltenham, United Kingdom.

56003609

Lohmann, R.; Ockenden, W. A.; Shears, J. and Jones, K. C.

Atmospheric distribution of polychlorinated dibenzo-p-dioxins, dibenzofurans (PCDD/Fs), and non-ortho biphenyls (PCBs) along a North-South Atlantic transect: **Environmental Science & Technology, ES & T**, 35(20), p. 4046-4053, 2001.

56003610

Thomas, D. N. (University of Wales-Bangor, School of Ocean Sciences, Anglesey, United Kingdom) and Dieckmann, G. S.

Antarctic sea ice; a habitat for extremophiles: **Science**, 295(5555), p. 641-644, illus., 41 ref., January 25, 2002.

56003611

Quayle, Wendy C. (British Antarctic Survey, Natural Environment Research Council, Cambridge, United Kingdom); Peck, Lloyd S.; Peat, Helen; Ellis-Evans, J. C. and Harrigan, P. Richard.

Extreme responses to climate change in Antarctic lakes: **Science**, 295(5555), p. 645, illus., 7 ref., January 25, 2002.

56003612

Colorado Geological Survey, Colorado Avalanche Information Center.

Snow and avalanche; annual report 2000-01: **Information Series - Colorado Geological Survey**, Rep. No. 61, 46 p., illus. incl. 4 tables, July 2001.

56003613

Longhi, John (Lamont-Doherty Earth Observatory, Palisades, NY).

Clathrate and ice stability in a porous Martian regolith [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1955, illus., 9 ref., 2001. compact disc. *Meeting:* March 12-16, 2001, Houston, TX.

56003614

Nakamura, Tomoki (University of Tokyo, Department of Earth and Planetary Science, Tokyo, Japan); Tajika, E. and Abe, Yutaka.

Multiple solutions in the Martian climate system under the seasonal change condition [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1528, illus., 10 ref., 2001. compact disc. *Meeting:* March 12-16, 2001, Houston, TX.

56003615

Groffman, Peter M. (Institute of Ecosystem Studies, Millbrook, NY); **Driscoll, Charles T.**; **Fahey, Timothy J.**; **Hardy, Janet P.**; **Fitzhugh, Ross D.** and **Tierney, Geraldine L.**
Colder soils in a warmer world; a snow manipulation study in a northern hardwood forest ecosystem: **Biogeochemistry** (Dordrecht), 56(2), p. 135-150, 2001.

56003616

Hardy, Janet P. (U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH); **Groffman, Peter M.**; **Fitzhugh, Ross D.**; **Henry, Karen S.**; **Welman, Adam T.**; **Demers, Jason D.**; **Fahey, Timothy J.**; **Driscoll, Charles T.**; **Tierney, Geraldine L.** and **Nolan, Scott.**
Snow depth manipulation and its influence on soil frost and water dynamics in a northern hardwood forest: **Biogeochemistry** (Dordrecht), 56(2), p. 151-174, 6 tables, 2001.

56003617

Tierney, Geraldine L. (Cornell University, Ithaca, NY); **Fahey, Timothy J.**; **Groffman, Peter M.**; **Hardy, Janet P.**; **Fitzhugh, Ross D.** and **Driscoll, Charles T.**
Soil freezing alters fine root dynamics in a northern hardwood forest: **Biogeochemistry** (Dordrecht), 56(2), p. 175-190, 2001.

56003618

Fitzhugh, Ross D. (Syracuse University, Department of Civil and Environmental Engineering, Syracuse, NY); **Driscoll, Charles T.**; **Groffman, Peter M.**; **Tierney, Geraldine L.**; **Fahey, Timothy J.** and **Hardy, Janet P.**
Effects of soil freezing disturbance on soil solution nitrogen, phosphorus, and carbon chemistry in a northern hardwood ecosystem: **Biogeochemistry** (Dordrecht), 56(2), p. 215-238, illus. incl. 6 tables, 2001.

56003619

Groffman, Peter M. (Institute of Ecosystem Studies, Millbrook, NY); **Driscoll, Charles T.**; **Fahey, Timothy J.**; **Hardy, Janet P.**; **Fitzhugh, Ross D.** and **Tierney, Geraldine L.**
Effects of mild winter freezing on soil nitrogen and carbon dynamics in a northern hardwood forest: **Biogeochemistry** (Dordrecht), 56(2), p. 191-213, 4 tables, 2001.

56003620

Spence, Christopher (McMaster University, School of Geography and Geology, Hamilton, ON, Canada) and **Woo, Ming-ko.**
Hydrology of subarctic Canadian Shield; bedrock upland: **Journal of Hydrology**, 262(1-4), p. 111-127, illus. incl. 5 tables, sketch map, 23 ref., May 10, 2002.

56003621

Gibson, J. J. (University of Waterloo, Department of Earth Sciences, Waterloo, ON, Canada); **Prepas, E. E.** and **McEachern, P.**
Quantitative comparison of lake throughflow, residency, and catchment runoff using stable isotopes; modelling and results from a regional survey of boreal lakes: **Journal of Hydrology**, 262(1-4), p. 128-144, illus. incl. 1 table, sketch map, 34 ref., May 10, 2002.

56003622

Koivusalo, H. (Helsinki University of Technology, Laboratory of Water Resources, Helsinki, Finland) and Kokkonen, T.

Snow processes in a forest clearing and in a coniferous forest: **Journal of Hydrology**, 262(1-4), p. 145-164, illus. incl. 1 table, sketch map, 44 ref., May 10, 2002.

56003623

Hodson, Andrew (University of Sheffield, Department of Geography, Sheffield, United Kingdom); Porter, Phil; Lowe, Andy and Mumford, Paul.

Chemical denudation and silicate weathering in Himalayan glacier basins; Batura Glacier, Pakistan: **Journal of Hydrology**, 262(1-4), p. 193-208, illus. incl. 4 tables, sketch map, 45 ref., May 10, 2002. Includes appendix.

56003624

Fontaine, T. A. (South Dakota School of Mines and Technology, Department of Civil and Environmental Engineering, Rapid City, SD); Cruickshank, T. S.; Arnold, J. G. and Hotchkiss, R. H.

Development of a snowfall-snowmelt routine for mountainous terrain for the Soil Water Assessment Tool (SWAT): **Journal of Hydrology**, 262(1-4), p. 209-223, illus. incl. 1 table, sketch maps, 45 ref., May 10, 2002.

56003625

Ettwein, V. J. (University College London, Department of Geography, London, United Kingdom); Stickley, C. E.; Maslin, Mark A.; Laurie, E. R.; Rosell-Melé, A.; Vidal, Laurence and Brownless, M.

Fluctuations in productivity and upwelling intensity at Site 1083 during the intensification of the Northern Hemisphere glaciation: *in* Proceedings of the Ocean Drilling Program, scientific results, Benguela Current; covering Leg 175 of the cruises of the drilling vessel JOIDES Resolution; Las Palmas, Canary Islands, to Cape Town, South Africa; sites 1075-1087; 9 August-8 October 1997 (Berger, Wolfgang H., editor; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 175, 24 p., illus. incl. block diag., 1 table, sketch map, 74 ref., March 2002. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Available only on CD-ROM in PDF format and on the Web in PDF or HTML.
http://www-odp.tamu.edu/publications/175_SR/chap_18/chap_18.htm

56003626

Straw, Allan (University of Exeter, Department of Geography, Exeter, United Kingdom).
Lincolnshire; gaps and more gaps: **Geology Today**, 18(1), p. 17-22, illus. incl. 1 table, geol. sketch map, 6 ref., February 2002.

56003627

Beer, Juerg (Swiss Federal Institute of Environmental Science and Technology (EAWAG), Department of Surface Waters, Duebendorf, Switzerland); Muscheler, Raimund; Wagner, Gerhard; Laj, Carlo; Kissel, Catherine; Kubik, Peter W. and Synal, Hans-Arno.

Cosmogenic nuclides during isotope stages 2 and 3: *in* Decadal-to-millennial-scale climate variability (Sarnthein, Michael, editor; *et al.*), **Quaternary Science Reviews**, 21(10), p. 1129-1139, illus. incl. 1 table, 47 ref., May 2002.

56003628

Stoner, J. S. (University of California at Davis, Department of Geology, Davis, CA); Laj, Carlo; Channell, J. E. T. and Kissel, Catherine.

South Atlantic and North Atlantic geomagnetic paleointensity stacks (0-80 ka); implications for inter-hemispheric correlation: *in* Decadal-to-millennial-scale climate variability (Sarnthein, Michael, editor; *et al.*), **Quaternary Science Reviews**, 21(10), p. 1141-1151, illus. incl. 1 table, sketch maps, 33 ref., May 2002.

56003629

Elliot, Mary (Lamont Doherty Earth Observatory, New York, NY); Labeyrie, Laurent and Duplessy, Jean-Claude.

Changes in North Atlantic deep-water formation associated with the Dansgaard-Oeschger temperature oscillations (60-10 ka): *in* Decadal-to-millennial-scale climate variability (Sarnthein, Michael, editor; *et al.*), **Quaternary Science Reviews**, 21(10), p. 1153-1165, illus. incl. 1 table, sketch map, 73 ref., May 2002.

56003630

Hendy, I. L. (University of British Columbia, Department of Earth and Ocean Sciences, Vancouver, BC, Canada); Kennett, James P.; Roark, E. B. and Ingram, B. L.

Apparent synchronicity of submillennial scale climate events between Greenland and Santa Barbara Basin, California from 30-10 ka: *in* Decadal-to-millennial-scale climate variability (Sarnthein, Michael, editor; *et al.*), **Quaternary Science Reviews**, 21(10), p. 1167-1184, illus. incl. 5 tables, sketch map, 52 ref., May 2002.

56003631

Voelker, Antje H. L. (University of Kiel, Leibniz Labor fuer Altersbestimmung und Isotopenforschung and Institute of Geosciences, Kiel, Federal Republic of Germany).

Global distribution of centennial-scale records for Marine Isotope Stage (MIS) 3; a database: *in* Decadal-to-millennial-scale climate variability (Sarnthein, Michael, editor; *et al.*), **Quaternary Science Reviews**, 21(10), p. 1185-1212, 3 tables, sketch maps, 280 ref., May 2002. Includes appendix. *Foraminifera, diatoms, palynomorphs*

56003632

Hinnov, Linda A. (Johns Hopkins University, Morton K. Blaustein Department of Earth and Planetary Sciences, Baltimore, MD); Schulz, Michael and Yiou, Pascal.

Interhemispheric space-time attributes of the Dansgaard-Oeschger oscillations between 100 and 0 ka: *in* Decadal-to-millennial-scale climate variability (Sarnthein, Michael, editor; *et al.*), **Quaternary Science Reviews**, 21(10), p. 1213-1228, illus., 42 ref., May 2002. Includes appendix.

56003633

Chappell, John (Australian National University, Research School of Earth Sciences, Canberra, Australia).

Sea level changes forced ice breakouts in the last glacial cycle; new results from coral terraces: *in* Decadal-to-millennial-scale climate variability (Sarnthein, Michael, editor; *et al.*), **Quaternary Science Reviews**, 21(10), p. 1229-1240, illus. incl. 2 tables, sects., 29 ref., May 2002.

56003634

Bidegain, Mario (Universidad de la República, Departamento de Meteorología, Uruguay) and Krecl, Patricia.

Radiación UV-B en superficie y contenido total de ozono en la base Antártica Artigas Isla Rey Jorge - Uruguay [Ultraviolet radiation detected at the surface and total ozone contents in the Antarctica Artigas Base at King George Island, Uruguay]: *in* Instituto Antártico Uruguayo; actividad científica 1998/2000, **Actividad Científica - Instituto Antartico Uruguayo**, 7, p. 111-116 (English sum.), illus. incl. 1 table, 9 ref., 2001.

56003635

Díaz, V. (Universidad de Uruguay, Facultad de Ingeniería, Sección Corrosión (SECORR), Uruguay); Martínez, S. and Rivero, S.

Evaluación del desempeño de protecciones anticorrosivas en el sitio Antártico correspondientes a BCAA [Evaluation and physical properties of protective devices against atmospheric corrosion in the BCAA Antarctica Base]: *in* Instituto Antártico Uruguayo; actividad científica 1998/2000, **Actividad Científica - Instituto Antartico Uruguayo**, 7, p. 87-94 (English sum.), illus. incl. 3 tables, 6 ref., 2001.

56003636

Liu Zilin (State Oceanological Administration, Key Laboratory of the Submarine Geoscience, Hangzhou, China); Cai Yuming; Ning Xiuren; Liu Chenggang; Zhu Genhai and Wang Xiaogu.

Primary productivity and standing stock of phytoplankton in the Prydz Bay and the adjacent northern sea area during the austral summer of 1999/2000: **Jidi Yanjiu = Chinese Journal of Polar Research**, 13(1), p. 1-12, (Chinese) (English sum.), illus. incl. 4 tables, 18 ref., 2001.

56003637

Repelewska-Pekalowa, Janina, editor.

Polish Polar studies; 26th international Polar symposium; the Polish polar research: Maria Curie-Sklodowska University Press, Lublin, Poland, 428 p., illus., 1999. ISBN: 83-227-1408-4. *Meeting:* June 18-20, 1999, Lublin, Poland. Individual papers are cited separately.

56003638

Brykala, Dariusz (Institute of Geography, Torun, Poland).

Hydraulic geometry of supraglacial stream on the Waldemar Glacier (Spitsbergen) in the summer of 1997: *in* Polish Polar studies; 26th international Polar symposium; the Polish polar research (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 51-64 (Polish sum.), illus., 23 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003639

Górski, Marek (PAN, Institute of Geophysics, Warsaw, Poland).

Seismic wave velocities in the Hans Glacier: *in* Polish Polar studies; 26th international Polar symposium; the Polish polar research (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 77-81 (Polish sum.), illus., 8 ref., 1999.

Meeting: June 18-20, 1999, Lublin, Poland.

56003640

Górski, Marek (PAN, Institute of Geophysics, Warsaw, Poland).

Accumulated stresses prior to icequakes on the basis of shear-band model: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 83-85 (Polish sum.), illus., 6 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003641

Grzes, Marek (PAN, Institute of Geography, Torun, Poland) and Sobota, Ireneusz.

Winter balance of Waldemar Glacier in 1996-1998: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 87-98 (Polish sum.), illus., 8 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003642

Lankauf, Krzysztof Roman (Nicolaus Copernici University, Institute of Geography, Poland).

Retreat of the Aavatstsmark Glacier (Kaffioyra region, Oscar II Land, Spitsbergen) in XX century: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 133-152 (Polish sum.), illus. incl. 2 tables, 30 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003643

Leszkiewicz, Jan (University of Silesia, Sosnowiec, Poland); Piasecki, Jacek and Pulina, Marian.

Hydrology of the Werenskiold Glacier catchment area (South Spitsbergen) in summer 1998: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 153-160 (Polish sum.), illus. incl. 2 tables, 20 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003644

Melke, Jerzy (Maria Curie-Sklodowska University, Lublin, Poland).

Preliminary studies of fissure and slope peats in the Calypsostranda and Lyellstranda region, West Spitsbergen: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 171-175 (Polish sum.), illus. incl. 1 table, 11 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003645

Pulina, Marian (University of Silesia, Sosnowiec, Poland); Kolondra, Leszek and Rehak, Josef.

Charting of cryokarst forms on Werenskiold Glacier (SW Spitsbergen): *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 235-241 (Polish sum.), 12 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003646

Rudowski, Stanislaw (PAN, Institute of Geophysics, Warsaw, Poland); Przedziecki, Piotr and Grigelis, Algimantas.

Glaciomarine muds deformation structures related to bottom ice thawing; Spitsbergen and southern Baltic examples: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 251-255 (Polish sum.), illus., 9 ref., 1999. *Meeting*: June 18-20, 1999, Lublin, Poland.

56003647

Sobota, Ireneusz (Nicolas Copernicus University, Torun, Poland).

Ablation of the Waldemar Glacier in the summer seasons of 1996, 1997 and 1998: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 257-274 (Polish sum.), illus. incl. 2 tables, 38 ref., 1999. *Meeting*: June 18-20, 1999, Lublin, Poland.

56003648

Staron, Waldemar (Szczecin University, Poland); Mielnik, Janusz and Gurgul, Henryk.

Parameters of mineral admixtures in ice from Hans Glacier: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 275-281 (Polish sum.), illus., 7 ref., 1999. *Meeting*: June 18-20, 1999, Lublin, Poland.

56003649

Styszynska, Anna (Gdynia Maritime Academy, Gdansk, Poland).

The development of the sea ice cover in the Barents and Greenland seas during 1998: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 283-299 (Polish sum.), illus., 14 ref., 1999. *Meeting*: June 18-20, 1999, Lublin, Poland.

56003650

Tarasov, Gennady A. (Russian Academy of Sciences, Biological Institute, Murmansk, Russian Federation).

On the question of the shallow-water glacial sedimentogenesis in the Arctic seas: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 301-303 (Polish sum.), illus., 7 ref., 1999. *Meeting*: June 18-20, 1999, Lublin, Poland.

56003651

Wisniewska, Barbara (University of Gdansk, Gdansk, Poland).

Ice conditions in Nottinghambukta during 1993-1998 seasons: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research* (Repelewska-Pekalowa, Janina, editor), Maria Curie-Sklodowska University Press, Lublin, Poland, p. 323-328 (Polish sum.), illus., 6 ref., 1999. *Meeting*: June 18-20, 1999, Lublin, Poland.

56003652

Arazny, Andrzej (PAN, Institute Geography, Torun, Poland).

Differentiation of air temperature in the summer season 1998 on the Waldemar Glacier and on the Kaffiora Plain (Spitsbergen): *in Polish Polar studies; 26th international Polar symposium; the Polish polar research (Repelewska-Pekalowa, Janina, editor)*, Maria Curie-Sklodowska University Press, Lublin, Poland, p. 25-35 (Polish sum.), illus. incl. 4 tables, 18 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003653

Jaworski, Tomasz (Nicolas Copernicus University, Institute of Geography, Poland) and Weckwerth, Piotr.

Forms and deposits of the marginal zone of the Waldemar Glacier (NW Spitsbergen) formed during its recession in 1977-1998: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research (Repelewska-Pekalowa, Janina, editor)*, Maria Curie-Sklodowska University Press, Lublin, Poland, p. 99-110 (Polish sum.), illus., 22 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003654

Mielnik, Janusz (University of Szczecin, Poland); Staron, Waldemar and Gurgul, Henryk.

Influence of mineral suspension on albedo of ice of Hans Glacier: *in Polish Polar studies; 26th international Polar symposium; the Polish polar research (Repelewska-Pekalowa, Janina, editor)*, Maria Curie-Sklodowska University Press, Lublin, Poland, p. 177-181 (Polish sum.), illus., 5 ref., 1999. *Meeting:* June 18-20, 1999, Lublin, Poland.

56003655

Ivanova, E. V. (Russian Academy of Sciences, Shirshov Institute of Oceanology, Moscow, Russian Federation).

Initiation and evolution history of monsoon circulation in the Indian Ocean during the Neogene-Quaternary: **Oceanology**, 42(1), p. 120-131, illus. incl. sketch maps, 70 ref., February 2002.

56003656

Smith, Benjamin E.

Radar studies on ice stream C, West Antarctica: 94 p., 31 ref., Master's, 1999, University of Wisconsin-Madison, Madison, WI.

56003657

Bindschadler, R. A., editor.

West Antarctic ice sheet initiative; science and implementation plan: 75 p., table, 12 ref., September 1995. *Available from:* National Science Foundation, Arlington, VA, United States.

56003658

Thompson, David W. J. (Colorado State University, Department of Atmospheric Science, Fort Collins, CO) and Solomon, Susan.

Interpretation of recent Southern Hemisphere climate change: **Science**, 296(5569), p. 895-899, illus. incl. 3 tables, 54 ref., May 3, 2002.

56003659

Kerr, Richard A.

A single climate mover for Antarctica: **Science**, 296(5569), p. 825-826, illus., May 3, 2002.

56003660

Ikeda-Fukazawa, Tomoko (Institue of Low Temperature Science, Hokkaido University, Sapporo, Japan); Hondoh, Takeo; Fukumura, Taku; Fukazawa, Hiroshi and Mae, Shinji. Variation in N₂/O₂ ratio of occluded air in Dome Fuji Antarctic ice: **Journal of Geophysical Research, D, Atmospheres**, 106(16), p. 17,799-17,810, illus., 44 ref., August 27, 2001.

56003662

Acomb, Lawrence (Geosphere); McKay, Daniel; Berglund, Scott; Sherhart, Tom and Benediktsson, Catharine.

Estimates of mass transfer rates during air sparging using relative permeability and neutron probe measurements: *in* Proceedings of the 1996 Petroleum hydrocarbons & organic chemicals in ground water; prevention, detection, and remediation conference (Stanley, Anita, editor), **Proceedings of the Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Detection and Remediation Conference**, 1996, p. 113-121, illus., 5 ref., 1996.

Meeting: Nov. 11-13, 1996, Houston, TX. CRREL Report No: ERDC/CRREL MP-02-5844

56003663

Anonymous.

Les glaces polaires [Polar ice]: **Géochronique**, 68, p. 8-24, illus. incl. sects., 4 plates, 2 tables, geol. sketch maps, 1998.

56003664

Great Britain, Hydrographer of the Navy.

The mariner's handbook: 7th edition, Hydrographer of the Navy, Taunton, Somerset, United Kingdom, 235 p., 1999.

56003665

Barnes, P. R. F. (British Antarctic Survey, Natural Environmental Research Council, Cambridge, United Kingdom); Wolff, E. W.; Mulvaney, R.; Udisti, R.; Castellano, E.; Röthlisberger, R. and Steffensen, J. P.

Effect of density on electrical conductivity of chemically laden polar ice: **Journal of Geophysical Research, B, Solid Earth and Planets**, 107(2), 14 p., illus. incl. 2 tables, 32 ref., February 10, 2002.

56003666

Lugg, D. J.

Telemedicine; have technological advances improved health care to remote Antarctic populations?: **International Journal of Circumpolar Health**, 57, Suppl. 1, p. 682-685, 1998.

56003667

Wood, J.; Lugg, D. J.; Hysong, S. J. and Harm, D. L.

Psychological changes in hundred-day remote Antarctic field groups: **Environment and Behavior**, 31(3), p. 299-337, 1999.

56003668

Zerath, E.; Holy, X.; Gaud, R. and Schmitt, D.

Decreased serum levels of 1,25-(OH)2 vitamin D during 1 year of sunlight deprivation in the Antarctic: **European Journal of Applied Physiology and Occupational Physiology**, 79(2), p. 141-147, 1999.

56003687

Lowe, Ashley L.

Glacial history and ice-sheet behavior of the West Antarctic ice sheet during the last glacial cycle in Pine Island Bay, Antarctica: 131 p., illus., 260 ref., Master's, May 2001, Rice University, Houston, TX.

56003714

Wang Wenyuan (Chinese Academy of Sciences, Institute of Geology, Beijing, China); Liu Jiaqi; Liu Dongsheng; Peng Ping'an; Lu Houyuan; Gu Zhaoyan; Chu Guoqiang; Negendank, J.; Luo Xiangjun and Mingram, J.

The two-step monsoon changes of the last deglaciation recorded in tropical Maar Lake Huguangyan, southern China: **Chinese Science Bulletin**, 45(16), p. 1529-1532, illus., 24 ref., August 2000.

56003715

Bichler, Ahren (British Columbia Ministry of Energy and Mines, Victoria, BC, Canada) and Bobrowsky, Peter T.

Barkerville Project; regional till geochemistry (93H/4, 5) and orientation (93A/14) studies: *in* Geological fieldwork 2000; a summary of field activities and research (British Columbia, Ministry of Energy and Mines, Energy and Minerals Division, Geological Survey Branch), **Paper - Ministry of Energy, Mines and Petroleum Resources**, Rep. No. 2001-1, p. 383-396, illus. incl. 1 table, 35 ref., January 2001. (Geological fieldwork 2000).

56003716

Ferbey, Travis (University of Victoria, Victoria, BC, Canada) and Levson, Victor M.

Quaternary geology and till geochemistry of the Huckleberry Mine area: *in* Geological fieldwork 2000; a summary of field activities and research (British Columbia, Ministry of Energy and Mines, Energy and Minerals Division, Geological Survey Branch), **Paper - Ministry of Energy, Mines and Petroleum Resources**, Rep. No. 2001-1, p. 397-409, illus. incl. sketch map, 26 ref., January 2001. (Geological fieldwork 2000).

56003717

Beltaos, Spyros (National Water Research Institute, Burlington, ON, Canada).

Hydraulic roughness of breakup ice jams: **Journal of Hydraulic Engineering**, 127(8), p. 560-656, illus. incl. 2 tables, 20 ref., August 2001.

56003718

Arnaud, Yves (Institut de Recherche pour le Development, La Paz, Bolivia); Muller, Frédéric; Vuille, Mathias and Ribstein, Pierre.

El Niño-Southern Oscillation (ENSO) influence on a Sajama Volcano glacier (Bolivia) from 1963 to 1998 as seen from Landsat data and aerial photography: **Journal of Geophysical Research, D, Atmospheres**, 106(16), p. 17,773-17,784, illus. incl. 6 tables, geol. sketch map, 52 ref., August 27, 2001.

56003719

Barth, John A. (Oregon State University, College of Oceanic and Atmospheric Sciences, Corvallis, OR); Cowles, Timothy J. and Pierce, Stephen D.

Mesoscale physical and bio-optical structure of the Antarctic Polar Front near 170°W during austral spring: **Journal of Geophysical Research, C, Oceans**, 106(7), p. 13,879-13,902, illus. incl. 2 tables, 7 plates, 47 ref., July 15, 2001.

56003720

Landry, Michael R. (University of Hawaii at Manoa, Department of Oceanography, Honolulu, HI); Brown, Susan L.; Selph, Karen E.; Abbott, M. R.; Letelier, R. M.; Christensen, Stephanie; Bidigare, Robert R. and Casciotti, K.

Initiation of the spring phytoplankton increase in the Antarctic Polar Front zone at 170°W: **Journal of Geophysical Research, C, Oceans**, 106(7), p. 13,903-13,915, illus. incl. 3 tables, 49 ref., July 15, 2001.

56003721

Yu, Y. (University of Washington, College of Ocean and Fishery Sciences, Seattle, WA); Rothrock, D. A. and Zhang, J.

Thin ice impacts on surface salt flux and ice strength; inferences from advanced very high resolution radiometer: **Journal of Geophysical Research, C, Oceans**, 106(7), p. 13,975-13,988, illus. incl. 1 plate, 4 tables, geol. sketch map, 30 ref., July 15, 2001.

56003722

Lipscomb, William H. (Los Alamos National Laboratory, Los Alamos, NM).

Remapping the thickness distribution in sea ice models: **Journal of Geophysical Research, C, Oceans**, 106(7), p. 13,989-14,000, illus., 19 ref., July 15, 2001.

56003723

Haarpaintner, Jorg (Norwegian Polar Institute, Polar Environmental Centre, Tromso, Norway); Gascard, Jean-Claude and Haugan, Peter M.

Ice production and brine formation in Storfjorden, Svalbard: **Journal of Geophysical Research, C, Oceans**, 106(7), p. 14,001-14,013, illus. incl. 1 table, geol. sketch maps, 36 ref., July 15, 2001.

56003724

Schnack-Schiel, Sigrid B. (Alfred-Wegener-Institute for Polar- und Meeresforschung, Bremerhaven, Federal Republic of Germany); Dieckmann, Gerhard S.; Gradinger, Rolf; Melnikov, I. A.; Spindler, Michael and Thomas, David N.

Meiofauna in sea ice of Weddell Sea (Antarctica): **Polar Biology**, 24(10), p. 724-728, illus. incl. 4 tables, 31 ref., 2001.

56003725

Cerrano, Carlo (University of Genoa, Dipartimento per lo Studio del Territorio e delle sue Risorse, Genoa, Italy); Bavestrello, Giorgio; Calcinai, Barbara; Cattaneo-Vietti, Riccardo; Chiantore, Mariachiara; Guidetti, Marta and Sara, Antonio.

Bioerosive processes in Antarctic seas: **Polar Biology**, 24(10), p. 790-792, illus., 11 ref., 2001.

56003726

Martinec, Zdenek (Charles University, Department of Geophysics, Prague, Czech Republic); Cadek, Ondrej and Fleitout, Luce.

Can the 1D viscosity profiles inferred from postglacial rebound data be affected by lateral viscosity variations in the tectosphere?: **Geophysical Research Letters**, 28(23), p. 4403-4406, illus., 16 ref., December 1, 2001.

56003727

Stevens, Michael H. (Naval Research Laboratory, E. O. Hulbert Center for Space Research, Washington, DC); Conway, Robert R.; Englert, Christoph R.; Summers, Michael E.; Grossmann, Klaus U. and Gusev, Oleg A.

PMCs and the water frost point in the Arctic summer mesosphere: **Geophysical Research Letters**, 28(23), p. 4449-4452, illus., 19 ref., December 1, 2001.

56003728

Yalcin, Kaplan (University of New Hampshire, Climate Change Research Center, Durham, NH) and Wake, Cameron P.

Anthropogenic signals recorded in an ice core from Eclipse Icefield, Yukon Territory, Canada: **Geophysical Research Letters**, 28(23), p. 4487-4490, illus. incl. 1 table, 25 ref., December 1, 2001.

56003729

Cullen, Nicolas J. (University of Colorado, Cooperative Institute for Research in Environmental Sciences, Boulder, CO) and Steffen, Konrad.

Unstable near-surface boundary conditions in summer on top of the Greenland ice sheet: **Geophysical Research Letters**, 28(23), p. 4491-4493, illus. incl. 2 tables, 10 ref., December 1, 2001.

56003730

Jevrejeva, Svetlana (Tallinn Pedagogical University, Tallinn, Estonia) and Moore, John C.

Singular spectrum analysis of Baltic Sea ice conditions and large-scale atmospheric patterns since 1708: **Geophysical Research Letters**, 28(23), p. 4503-4506, illus. incl. 1 table, 19 ref., December 1, 2001.

56003731

McCaffrey, William D.; Kneller, Ben C. and Peakall, Jeff, editors.

Particulate gravity currents: **Special Publication of the International Association of Sedimentologists**, 31, 302 p., illus., 2001. ISBN: 0-632-05921-4. *Meeting:* Sediment transport and deposition by particular gravity currents, Sept. 1998, Leeds, United Kingdom. Individual papers are cited separately.

56003732

Peakall, Jeff (University of Leeds, School of Earth Sciences, Leeds, United Kingdom); Felix, Maarten; McCaffrey, Bill and Kneller, Ben C.

Particulate gravity currents; perspectives: *in* Particulate gravity currents (McCaffrey, William D., editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 31, p. 1-8, 55 ref., 2001. *Meeting:* Sediment transport and deposition by particular gravity currents, Sept. 1998, Leeds, United Kingdom.

56003733

Takahashi, Tamotsu (Kyoto University, Disaster Prevention Research Institute, Kyoto, Japan).

Mechanics and simulation of snow avalanches, pyroclastic flows and debris flows: *in* Particulate gravity currents (McCaffrey, William D., editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 31, p. 11-43, illus., 43 ref., 2001. *Meeting:* Sediment transport and deposition by particular gravity currents, Sept. 1998, Leeds, United Kingdom.

56003734

McElwaine, James (University of Hokkaido, Institute of Low Temperature Science, Sapporo, Japan) and Nishimura, K.

Ping-pong ball avalanche experiments: *in* Particulate gravity currents (McCaffrey, William D., editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 31, p. 135-148, illus. incl. 2 tables, 46 ref., 2001. *Meeting:* Sediment transport and deposition by particular gravity currents, Sept. 1998, Leeds, United Kingdom.

56003735

Capart, Herve (Université Catholique de Louvain, Department of Civil Engineering, Louvain, Belgium); Young, Der-Liang and Zech, Yves.

Dam-break induced debris flow: *in* Particulate gravity currents (McCaffrey, William D., editor; *et al.*), **Special Publication of the International Association of Sedimentologists**, 31, p. 149-156, illus. incl. table, 21 ref., 2001. *Meeting:* Sediment transport and deposition by particular gravity currents, Sept. 1998, Leeds, United Kingdom.

56003736

Shearer, W. T.; Lugg, D. J.; Rosenblatt, H. M.; Nickolls, P. M.; Sharp, R. M.; Reuben, J. M. and Ochs, H. D.

Antibody responses to bacteriophage phi X-174 in human subjects exposed to the Antarctic winter-over model of spaceflight: **Journal of Allergy and Clinical Immunology**, 107(1), p. 160-164, 2001.

56003737

Mével, Loic (Laboratoire de Planétologie et Géodynamique, Nantes, France); Grasset, O. and Mercier, E.

Impact features on Europa; rheological and thermal states of the icy crust [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1519, illus., 11 ref., 2001. compact disc. *Meeting:* March 12-16, 2001, Houston, TX.

56003738

Turtle, E. P. (University of Arizona, Lunar and Planetary Laboratory, Tucson, AZ) and Pierazzo, E.

Vapor and melt production during the formation of impact craters on Europa [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1933, illus. incl. 1 table, 11 ref., 2001. compact disc. *Meeting:* March 12-16, 2001, Houston, TX.

56003739

O'Brien, David P. (University of Arizona, Lunar and Planetary Laboratory, Tucson, AZ); Geissler, Paul; Greenberg, Richard and Tufts, B. Randall.

A melt-through model for chaos formation on Europa [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 2050, illus., 7 ref., 2001. compact disc. *Meeting:* March 12-16, 2001, Houston, TX.

56003740

Fagents, S. A. (Arizona State University, Department of Geological Sciences, Tempe, AZ) and Greeley, R.

Modeling intrusive processes in Europa's ice lithosphere [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1383, illus., 14 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX.

56003741

Ekhholm, A. G. (University of Arizona, Lunar and Planetary Laboratory, Tucson, AZ) and Melosh, H. J.

Tidal dissipation around a cylindrical hole in the Europan ice shell [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 2161, illus., 7 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX.

56003742

Foldi, T. (FOELDIX, Budapest, Hungary) and Berczi, S.

The source of water molecules in the vicinity of the Moon [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1148, illus., 7 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX.

56003743

Duprat, J. (CSNSM, Orsay, France); Hammer, C.; Maurette, M.; Engrand, C.; Matrajt, G.; Immel, G.; Gounelle, M. and Kurat, Gero.

Search for past and future "frozen" Leonid showers in Antarctica and Greenland [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1641, 6 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX.

56003744

Toft, B. (Bemidji State University, Bemidji, MN); Chambers, J.; Hassings, R.; Godwin, A.; Schauer, R.; Ross, A.; DeBaer, J.; Melchior, R. and Annexstad, J.

Are cosmic spherules found in glaciogenic sediments? A new view of an ongoing investigation [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1360, 3 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX.

56003745

Duprat, J. (CSNSM, Orsay, France); Engrand, C.; Gounelle, M.; Maurette, M.; Matrajt, G.; Kurat, Gero and Brandstätter, F.

Search for possible extraterrestrial matter among shiny small iron oxide spherules [abstr.]: *in* Lunar and planetary science, XXXII; Papers presented to the Thirty-second lunar and planetary science conference, **Abstracts of Papers Submitted to the Lunar and Planetary Science Conference**, 32, abstr. no. 1773, illus., 20 ref., 2001. compact disc. *Meeting*: March 12-16, 2001, Houston, TX.

56003746

Bolikhovskaia, N. S.; Gunova, V. S.; Karevskaia, I. A.; Simakova, A. N. and Faustov, S. S.
Zakonomernosti razvitiia pleistotsenovoi periglyatsial'noi rastitel'nosti v raznykh rayonakh severnoi Evrazii [Evolution of the periglacial Pleistocene vegetation in various northern Eurasia regions]: **Vestnik Moskovskogo Universiteta, Seria 5: Geografiiia**, 2001(6), p. 62-68 (English sum.), illus., 23 ref., December 2001.

56003747

Parizek, Byron R.

Thermomechanical flowline model for studying the interactions between ice sheets and the global climate system: 246 p., illus. incl. 4 tables, 150 ref., Master's, December 2000, Pennsylvania State University, University Park, University Park, PA.

56003748

Siegel, D. A. (University of California at Santa Barbara, Institute for Computational Earth System Science, Santa Barbara, CA); Doney, S. C. and Yoder, J. A.

The North Atlantic spring phytoplankton bloom and Sverdrup's critical depth hypothesis: **Science**, 296(5568), p. 730-733, 1 table, sketch maps, 29 ref., April 26, 2002.

56003749

Stone, Richard.

Siberia's deadly stalker emerges from the shadows: **Science**, 296(5568), p. 642-645, illus., April 26, 2002.

56003750

Irion, Robert.

Astrobiologists try to "follow the water to life": **Science**, 296(5568), p. 647-648, illus., April 26, 2002.

56003751

Rind, D. (Columbia University, NASA, Goddard Institute for Space Studies, New York, NY).

The Sun's role in climate variations: **Science**, 296(5568), p. 673-677, illus. incl. 5 tables, 65 ref., April 26, 2002.

56003752

Heywood, Karen J. (University of East Anglia, School of Environmental Sciences, Norwich, United Kingdom); Naveira Garabato, Alberto C. and Stevens, David P.

High mixing rates in the abyssal Southern Ocean: **Nature (London)**, 415(6875), p. 1011-1014, 1 table, sketch maps, 30 ref., February 28, 2002.

56003753

Doran, Peter T. (University of Illinois at Chicago, Department of Earth and Environmental Sciences, Chicago, IL); Priscu, John C.; Lyons, W. Berry; Walsh, John E.; Fountain, Andrew G.; McKnight, Diane M.; Moorhead, Daryl L.; Virginia, Ross A.; Wall, Diana H.; Clow, Gary D.; Fritsen, Christian H.; McKay, Christopher P. and Parsons, Andrew N.
Antarctic climate cooling and terrestrial ecosystem response: **Nature (London)**, 415(6871), p. 517-520, illus. incl. 1 table, 29 ref., January 31, 2002.

56003754

Takeda, Andrea (University of Southampton, Department of Electronics and Computer Science, Southampton, United Kingdom); **Cox, Simon** and **Payne, Antony J.**
Parallel numerical modelling of the Antarctic ice sheet: **Computers & Geosciences**, 28(6), p. 723-734, illus., 27 ref., July 2002.

56003755

Vorosmarty, Charles (University of New Hampshire, Institute for the Study of Earth, Oceans, and Space, Durham, NH); **Hinzman, Larry**; **Peterson, Bruce**; **Bromwich, David**; **Hamilton, Lawrence**; **Morison, James**; **Romanovsky, Vladimir**; **Sturm, Matthew** and **Webb, Robert**.

Arctic-CHAMP; a program to study Arctic hydrology and its role in global change: **Eos, Transactions, American Geophysical Union**, 83(22), p. 241, 244-245, 249, illus. incl. geol. sketch maps, 2 tables, block diag., 15 ref., May 28, 2002.

56003756

Bremer, Christopher W. (Oregon State University, Department of Geosciences, Corvallis, OR); **Clark, Peter U.** and **Haggerty, Roy**.

Modeling the subglacial hydrology of the late Pleistocene Lake Michigan Lobe, Laurentide ice sheet: **Geological Society of America Bulletin**, 114(6), p. 665-674, illus. incl. 3 tables, sketch maps, 38 ref., June 2002.

<http://www.gsajournals.org/gsaonline/?request=get-abstract&issn=0016-7606&volume=0114&issue=06&page=0665>

56003757

Marchant, D. R. (Boston University, Department of Earth Sciences, Boston, MA); **Lewis, A. R.**; **Phillips, W. M.**; **Moore, E. J.**; **Souchez, R. A.**; **Denton, G. H.**; **Sugden, D. E.**; **Potter, N., Jr.** and **Landis, G. P.**

Formation of patterned ground and sublimation till over Miocene glacier ice in Beacon Valley, southern Victoria Land, Antarctica: **Geological Society of America Bulletin**, 114(6), p. 718-730, illus. incl. 3 tables, sketch map, 65 ref., June 2002.

<http://www.gsajournals.org/gsaonline/?request=get-abstract&issn=0016-7606&volume=0114&issue=06&page=0718>

56003758

Prins, Maarten A. (Vrije Universiteit, Faculty of Earth Sciences, Amsterdam, Netherlands); **Bouwer, Laurens M.**; **Beets, Christiaan J.**; **Troelstra, Simon R.**; **Weltje, Gert Jan**; **Kruk, Rink W.**; **Kuijpers, Antoon** and **Vroon, Pieter Z.**

Ocean circulation and iceberg discharge in the glacial North Atlantic; inferences from unmixing of sediment size distributions: **Geology (Boulder)**, 30(6), p. 555-558, illus. incl. sketch map, 22 ref., June 2002. Neth. Res. Sch. Sediment. Geol., Publ. No. 20001003.

<http://www.gsajournals.org/gsaonline/?request=get-abstract&issn=0016-7606&volume=030&issue=06&page=0555>

56003759

U. S. Department of Agriculture, Natural Resources Conservation Service, Washington Snow Survey Office.

Washington water supply outlook report, May 1, 2002: 33 p., illus. incl. tables, sketch maps, May 2002. Available from: U. S. Department of Agriculture, Natural Resources Conservation Service, United States.

56003760

Raytheon Technical Services Company, Polar Services.

McMurdo Area Users' Committee (MAUC) meeting; 17-18 May 2001, Englewood, Colorado: 40 p., illus., 2001. Available from: Raytheon Technical Services Company, Polar Services, Englewood, CO, United States. Includes appendices.

56003761

Grishchenko, V. F.; Bogillo, V. I.; Kuntsevskii, P. G.; Serebryakov, O. V. and Thorik, A. P.
K voprosu o metodike otbora obratzsov Antarkticheskogo l'da razlichnogo vozrasta [Sampling techniques for Antarctic ice of different ages]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 323-326, 360-361 (English sum.), illus., 2000. (includes appendices).

56003762

Ribachuk, V. P. and Videnina, N. G.

Literatura po Antarktitsi u fondakh Natsional'noyi Biblioteki Ukrayini imeni V. I. Vernads'kogo (bibliografichni oglyad) [Publications on Antarctica in the V. I. Vernadsky National Library of Ukraine; bibliographic review]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 272-285, 360 (English sum.), illus. incl. 2 tables, 35 ref., 2000. (includes appendices). Includes appendices.

56003763

Savich, M. S.; Budnichenko, E. V. and Trotsenko, B. G.

Sostoianie planktonnogo soobshchestva (fito, zooplanktona) rayona Iuzhnykh Orkneiskikh ostrovov v osennii period 1997 goda [State of plankton community; phyto- and zooplankton in the South Orkney Islands region during autumn 1997]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 246-259, 359 (English sum.), illus. incl. 6 tables, sketch maps, 11 ref., 2000. (includes appendices).

56003764

Bondar', S. B.

Otsenka vozdeistviia antropogennoi nagruzki Ukrainskoi Antarkticheskoi stantsii "Akademik Vernadskii" na kachestvo morskoi sredy prilegaiushchei akvatorii [The anthropogenic load assessment at Academician Vernadsky Ukrainian Antarctic Station and the quality of marine environment]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 209-216, 357 (English sum.), illus. incl. 6 tables, 10 ref., 2000. (includes appendices).

56003765

Bondar', S. B.; Orlova, I. G. and Usenko, V. P.

Ingredienty khimicheskogo zagryazneniya v ekosisteme shkhernogo melkovod'ya ostrovov Argentinskogo Arkhipelaga (rayon Ukrainskoi antarkticheskoi stantsii Akademik Vernadskii) [Chemical pollutants in the shallow water ecosystems of the Argentine Archipelago at Academician Vernadsky Ukrainian Antarctic Station]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 192-208, 356 (English sum.), illus. incl. 4 tables, sketch maps, 22 ref., 2000. (includes appendices).

56003766

Artamonov, Iu. V.; Vysotskaia, O. A.; Grishchenko, V. F.; Zen'kovskii, V. V.; Lomakin, P. D.; Popov, Iu. I. and Ukrainskii, V. V.

Izmenchivost' ledovykh i gidrologicheskikh uslovii v iuzhnoi chasti morya Skotii osen'iu 1997-1998 godov [Variations of ice and hydrologic conditions in southern Scotia Sea in autumn 1997 and 1998]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 150-156, 355 (English sum.), illus. incl. sketch maps, 13 ref., 2000. (includes appendices).

56003767

Shkvorets, I. Iu.

Metrologicheskoe obespechenie okeanograficheskikh izmerenii vo 2-oi Ukrainskoi morskoi Antarkticheskoi ekspeditsii na NIS Ernst Krenkel' [Organization of oceanographic measurements during 2nd Ukrainian Antarctic expedition on the Ernst Krenkel research vessel]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 119-124, 353 (English sum.), illus. incl. 2 tables, 4 ref., 2000. (includes appendices).

56003768

Bulgakov, N. P.; Bibik, V. A. and Dzhiganshin, G. F.

Tsirkulyatsiya vod v prolige dreika i zapadnoi chasti Atlanticheskogo sektora Antarktiki v letnee vremya [Ocean circulation within Drake Passage and in the western Atlantic quadrant of Antarctica in the summer time]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 110-118, 353 (English sum.), sketch maps, 12 ref., 2000. (includes appendices).

56003769

Artamonov, Iu. V.; Lomakin, P. D.; Popov, Iu. I. and Ukrainskii, V. V.

Vodnye massy regiona iuzhnykh Shetlandskikh ostrovov v osennii sezona iuzhnogo polushariia [Antarctic Ocean circulation within the South Shetland Islands region in autumn]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 101-109, 353 (English sum.), illus. incl. 2 tables, sketch maps, 11 ref., 2000. (includes appendices).

56003770

Artamonov, Iu. V.; Bulgakov, N. P.; Bibik, V. A.; Lomakin, P. D.; Popov, Iu. I. and Ukrainskii, V. V.

Struktura Antarkticheskogo polyarnogo i subantarkticheskogo frontov zapadnoi chasti morya skotiiia v aprele 1998 goda [Structure of Antarctic Ocean in western Scotia Sea in April 1998]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 93-100, 352 (English sum.), illus. incl. 1 table, sketch maps, 10 ref., 2000. (includes appendices).

56003771

Popov, Iu. I.; Ukrainskii, V. V.; Artamonov, Iu. V. and Lomakin, P. D.

Termokhalinnoe sostoianie vod verkhnego sloia Antarkticheskogo sektora iugo-zapadnoi Atlantiki v marte-aprele 1998 goda [Thermohaline field of the upper layer in the Antarctic sector of the Southwest Atlantic on the March-April 1998]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul'letin - Ukrainian Antarctic Centre**, 3, p. 87-92, 352 (English sum.), illus. incl. 1 table, sketch maps, 5 ref., 2000. (includes appendices).

56003772

Artamonov, Iu. V.; Bibik, V. A.; Buzanov, B. V.; Lomakin, P. D.; Neverovs'kii, I. P.; Popov, Iu. I.; Presekin, V. N.; Ukrayinskii, V. V. and Shkvorets', I. Iu.

Termokhalinna struktura ta dinamika vod v pvidennii chastini morya Skotia v berezni-kvitni 1998 poku [Thermohaline structure and ocean currents in the southern Scotia Sea in March-April 1998]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul - Ukrainian Antarctic Centre**, 3, p. 79-86, 352 (English sum.), illus. incl. sketch maps, 2 ref., 2000. (includes appendices).

56003773

Ukrainetskii, V. V.; Popov, Iu. I.; Artamonov, Iu. V. and Lomakin, P. D.

Frontal'nye zony i vodnye massy na poverkhnosti iugo-zapadnoi Atlantiki prilegaiushchego sektora Iuzhnogo okeana [Surface frontal zones and water masses in south-western Atlantic and the adjacent Antarctic region]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul - Ukrainian Antarctic Centre**, 3, p. 68-78, 352 (English sum.), illus. incl. 6 tables, sketch map, 32 ref., 2000. (includes appendices).

56003774

Artamonov, Iu. V.; Balakin, V. I.; Neverovskii, I. P.; Popov, Iu. I. and Skripnik, V. V.

Krupnomasshtabnaia izmenchivost' polya temperatury poverkhnosti okeana po rezul'tatam poputnykh izmerenii v reise NIS Ernst Krenkel; 1997 g. [Surface water temperature variability in Atlantic Ocean based on observations performed during cruise of the Ernst Krenkel research vessel in 1997]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul - Ukrainian Antarctic Centre**, 3, p. 60-67 (English sum.), illus. incl. sketch maps, 12 ref., 2000. (includes appendices).

56003775

Bogillo, V. I. and Gozhik, P. F.

Sovremennoe sostoianie glyatsiokhimicheskikh issledovanii v Antarktike [Current glaciochemical research in Antarctica]: **Byuleten' Ukrains'kogo Antarktichnogo Tsentrul - Ukrainian Antarctic Centre**, 3, p. 1-40, 350 (English sum.), 103 ref., 2000. (includes appendices).

56003776

Brown, Susan L. (University of Hawaii at Manoa, Department of Oceanography, Honolulu, HI) and Landry, Michael R.

Mesoscale variability in biological community structure and biomass in the Antarctic Polar Front region at 170°W during austral spring 1997: **Journal of Geophysical Research, C, Oceans**, 106(7), p. 13,917-13,930, illus., July 15, 2001.

56003777

Cummings, S. P. and Black, G. W.

Polymer hydrolysis in a cold climate: **Extremophiles (Print)**, 3(2), p. 81-87, 1999.

56003778

Farrace, S.; Cenni, P.; Tuozzi, G.; Casagrande, M.; Barbarito, B. and Peri, A.

Endocrine and psychophysiological aspects of human adaptation to the extreme: **Physiology & Behavior**, 66(4), p. 613-620, 1999.

56003779

Malhotra, A. S.; Pal, K.; Prasad, R.; Bajaj, A. C.; Kumar, R. and Sawhney, R. C.

Plasma insulin and growth hormone during Antarctic residence: **Japanese Journal of Physiology**, 48(2), p. 167-169, 1998.

56003780

Vincent, W. F.; Gibson, J. A.; Pienitz, R.; Villeneuve, V.; Broady, P. A.; Hamilton, P. B. and Howard-Williams, C.

Ice shelf microbial ecosystems in the high arctic and implications for life on snowball Earth: **Naturwissenschaften**, 87(3), p. 137-141, 2000.