



BioOne COMPLETE

Cover

Source: Arctic, Antarctic, and Alpine Research, 47(4)

Published By: Institute of Arctic and Alpine Research (INSTAAR),
University of Colorado

URL: <https://doi.org/10.1657/AAAR0047-4-c1>

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to

Arctic, Antarctic, and Alpine Research

Vol. 47, No. 4 November 2015

Contents

Stephen C. Porter: 1934–2015 In Memoriam Alan Gillespie	597–598
Ground-level concentrations of atmospheric methane in southwest Greenland evaluated using open-path laser spectroscopy and cavity-enhanced absorption spectroscopy Kevin D. Webster, Jeffrey R. White, and Lisa M. Pratt	599–609
Assessment of simulations of snow depth in the Qinghai-Tibetan Plateau using CMIP5 multi-models Zhigang Wei and Wenjie Dong	611–625
Implications of shrinking cryosphere under changing climate on the streamflows in the Lidder catchment in the Upper Indus Basin, India Shakil Ahmad Romshoo, Reyaz A. Dar, Irfan Rashid, Asif Marazi, Nahida Ali, and Sumira N. Zaz	627–644
Summer surface albedo of sea ice in Pacific Arctic sector as measured during the CHINARE 2010 cruise Wentao Xia, Hongjie Xie, Changqing Ke, Jinping Zhao, Ruibo Lei, and Stephen F. Ackley	645–656
Recent rates of carbon accumulation in montane fens of Yosemite National Park, California, U.S.A. Judith Z. Drexler, Christopher C. Fuller, James Orlando, and Peggy E. Moore	657–669
Modeling the thermal zones and biodiversity on the high mountains of Meganesia: the importance of local differences Ken Green and John A. Stein	671–680
Slope aspect mediates fine-scale tree establishment patterns at upper treeline during wet and dry periods of the 20th century Grant P. Elliott and C. Mark Cowell	681–692
Above-ground and below-ground plant responses to fertilization in two subarctic ecosystems G. F. (Ciska) Veen, Maja K. Sundqvist, Daniel Metcalfe, and Scott D. Wilson	693–702
Paleolimnological records of nitrogen deposition in shallow, high-elevation lakes of Grand Teton National Park, Wyoming, U.S.A. Sarah A. Spaulding, Megan K. Otu, Alexander P. Wolfe, and Jill S. Baron	703–717
Temperature-dependent adjustments of the permafrost thermal profiles on the Qinghai-Tibet Plateau, China Xie Changwei, William A. Gough, Zhao Lin, Wu Tonghua, and Liu Wenhui	719–728
Fungi and algae co-occur in snow: an issue of shared habitat or algal facilitation of heterotrophs? Shawn P. Brown, Bradley J. S. C. Olson, and Ari Jumpponen	729–749
Ecological responses to 52 years of experimental snow manipulation in high-alpine cushionfield, Old Man Range, south-central New Zealand Alan F. Mark, Annika C. Korsten, D. Urrutia Guevara, Katharine J. M. Dickinson, Tanja Humar-Maegli, Pascale Michel, Stephan R. P. Halloy, Janice M. Lord, Susanna E. Venn, John W. Morgan, Peter A. Whigham, and Jacqueline A. Nielsen	751–772
Recent and intense dynamics in a formerly static Pyrenean treeline J. Julio Camarero, José María García-Ruiz, Gabriel Sangüesa-Barreda, Juan Diego Galván, Arben Q. Alla, Yasmina Sanjuán, Santiago Beguería, and Emilia Gutiérrez	773–783
Twenty-five year record of changes in plant cover on tundra of northeastern Alaska Janet C. Jorgenson, Martha K. Reynolds, Joel H. Reynolds, and Anna-Marie Benson	785–806
Observational study of surface wind regime on the north slope of Mount Qomolangma (Mount Everest) Xingguo Yang, Tingjun Zhang, Dahe Qin, Xiang Qin, and Yang Yang	807–817
Book Reports	
<i>Yupik Transitions: Change and Survival at Bering Strait, 1900–1960</i> , by Igor Krupnik and Michael Chlenov	819–820
<i>Arrows and Atlatls: a Guide to the Archeology of Beringia</i> , by E. James Dixon	820–821
Polar and Alpine Meetings Calendar	823–824

Arctic, Antarctic, and Alpine Research

Vol. 47, No. 4, pp. 597–824, November 2015



Arctic, Antarctic, and Alpine Research

An Interdisciplinary Journal



UNIVERSITY OF COLORADO BOULDER

Vol. 47, No. 4 November 2015