

Todd H. Albert, Ph.D.

Education

Ph.D., Department of Geography, Florida State University, 2007

Ph.D. Candidate, Department of Geography (CIRES), University of Colorado, 2000-04

M.S., Atmospheric Sciences, Ohio State University, 2000

B.S., Geography, University of Florida, 1998

Grants and Awards

CIRES Innovative Research Grant, Co-Principle Investigator, University of Colorado, \$26,000, 2002-03

NASA Graduate Research Fellowship, Principle Investigator, University of Colorado, \$70,000, 2001-04

Dean's Small Grant, Ohio State University, \$1,000, 1999-2000

PEGS Scholarship, Ohio State University, \$4,000, 1998-99

Publications

Albert, T.H., Glaciers: Continental, in *Encyclopedia of Geography*, edited by B. L. Warf, Sage Publishing, accepted.

Albert, T.H., Evaluation of remote sensing techniques for ice-area classification applied to the tropical Quelccaya Ice Cap, Peru, *Polar Geography*, 26 (3), 210-226, 2002.

Albert, T.H., Assessment of glacier mass balances from small tropical glaciers to the ice sheet of Greenland, VDM Verlag Dr. Mueller e.K., Saarbrücken, Germany, 160 pp., 2008.

Albert, T.H., Assessment of glacier mass balances from small tropical glaciers to the large ice sheet of Greenland, Ph.D. Dissertation, Florida State University, Tallahassee, Florida, 2007.

Albert, T.H., Measuring and modeling surface height changes on the Greenland ice sheet: Pâkitsoq ablation zone, west-central Greenland, pp. 37, University of Colorado, Boulder, Colorado, 2004.

Steffen, K., N. Cullen, R. Huff, S. Starkweather, T.H. Albert, and M. McAllister, Variability and forcing of climate parameters on the Greenland Ice Sheet: Greenland Climate Network (GC Net), pp. 30, University of Colorado, Boulder, 2004

Steffen, K., N. Cullen, R. Huff, S. Starkweather, and T.H. Albert, Variability and forcing of climate parameters on the Greenland ice sheet: Greenland Climate Network (GC-Net), pp. 29, University of Colorado, Boulder, 2003.

Albert, T.H., A high-resolution ablation study near Illulisat (Jakobshavn) on the Greenland Ice Sheet, pp. 10, University of Colorado, Boulder, Colorado, 2002.

Steffen, K., J.E. Box, N. Cullen, and T.H. Albert, Variability and forcing of climate parameters on the Greenland Ice Sheet: Greenland Climate Network (GC Net), pp. 22, University of Colorado, Boulder, 2002.

Steffen, K., J.E. Box, N. Cullen, and T.H. Albert, Greenland ice sheet climatology and surface energy balance modeling: Greenland climate network (GC-Net), pp. 24, University of Colorado, Boulder, 2002.

Albert, T.H., Investigations of the recent changes on the tropical Quelccaya Ice Cap, Peru, Masters thesis, Ohio State University, Columbus, Ohio, 2000.

In Preparation or Revision

Albert, T.H., A mass-balance profile of west-central Greenland, *Polar Geography*, in progress.

Albert, T.H., Retreat history of the tropical Quelccaya Ice Cap, Peru, from 1962-2005 using remote sensing techniques, *Annals of Glaciology*, in progress.

Albert, T.H., Retreat of the Quelccaya Ice Cap from 1962-2008, *Journal of Glaciology*, in progress.

Albert, T.H., 30 Years of urban encroachment on the Florida Everglades from satellite, *Florida Geographer*, in progress.

Albert, T.H., Student engagement in large lectures through the use of response devices ("clickers"), in progress.

Albert, T.H., Freezing their butts off: student engagement through field work, in progress.

Albert, T.H., A semi-analytic approach to modeling melt in the ablation zone of west-central Greenland, *Journal of Geophysical Research*, in progress.

Professional Appointments and Other Experience

Research Experience

GLIMS (Global Land Ice Measurements from Space) Steward, Quelccaya ice cap, Peru, 2004-present
CIRES Innovative Research Program, University of Colorado, 2002-03
NASA Graduate Research Fellow, University of Colorado, 2001-04
NASA PARCA Program Graduate Research Assistant, University of Colorado, 2001-04
Research Assistant, Ohio State University, 1999-2000
Research Assistant, University of Florida, 1997-98

Teaching Experience

Assistant Professor of Geography, Department of Agriculture, Geosciences, and Natural Resources Department of Geography, University of Tennessee at Martin, 2009-present
Instructor, Department of Geography, Bowling Green State University, 2007-09
Adjunct Instructor, Tallahassee Community College, 2004-07
Lead Teacher and Science Coordinator, Cornerstone Learning Community, Tallahassee, Florida, 2004-07
Lab and Recitation Instructor, University of Colorado, 2001-03
Tutor, University of Colorado, Boulder, Colorado, 2002-03
Lab and Recitation Instructor, Ohio State University, 1998-2000
Tutor, University of Florida, 1996-97

Field Experience (selected)

Kiser Lake, Ohio, 2008
Bowling Green, Ohio, 2008-present
Tallahassee, Florida, 2005-07
Cape San Blas, Florida, 2005
Italian Alps, Karthaus, Italy, 2003
Mammoth Gulch and Niwot Ridge, Colorado, 2002-03
High Andes, Peru, 2002
Greenland Ice Sheet, 2001-02

Service and Professional Development

Undergraduate co-advisor, Department of Geography, Bowling Green State University, 2008-present
Faculty Advisor, Geography Club, Bowling Green State University, 2007-present
Preview Day volunteer, Bowling Green State University, 2007-08
Active Learning in the Natural Sciences Learning Community, Bowling Green State University, 2007-08
New Faculty Learning Community, Bowling Green State University, 2007-08

Media Appearances

Flynn, C., Stormy with a Good Chance of Sun, BG News, November 18, 2008.
Albert, T.H., Changing Earth's Climate, WBGU TV, October 5, 2008.
Reiter, M., Global warming science not new, BG professor says, in *The Courier*, Findlay, Ohio, August 28, 2008.
Albert, T.H., Debate with renown climate-change skeptic Roy Spencer, Political Animals, WBGU FM, March 24, 2008.

Selected Presentations

Albert, T.H., Changing Climate in the Arctic, Great Decisions Series Lecture, Bowling Green, Ohio, February 22, 2009.
Albert, T.H., Are we sunk? Measuring and modeling mass and energy balances on the Greenland Ice Sheet, Department of Geography Faculty Research Colloquium, Bowling Green State University, Bowling Green, Ohio, December 5, 2008.
Albert, T.H., Changing Earth's Climate, Keynote Talk, University of Findlay, Findlay, Ohio, August 26, 2008.
Albert, T.H., Changing Earth's Climate, League of Woman Voters, Panel Discussion on Global Climate Change, Lima, Ohio, June 17, 2008.

- Albert, T.H., Measuring and modeling melt and mass-balance on the Greenland Ice Sheet, Byrd Polar Research Center Spring 2008 Seminar Series, May 9, 2008.
- Albert, T.H., Changing Earth's Climate, Keynote Talk, Conference on Global Climate Change, Ohio Northern University, Ada, Ohio, April 5, 2008.
- Albert, T.H., A mass-balance profile for the Greenland Ice Sheet, Annual Meeting of the Association of American Geographers (AAG), Boston, 2008.
- Albert, T.H., Melting Glaciers and Beach-front Property, Focus the Nation, Bowling Green State University, Bowling Green, Ohio, January 31, 2008.
- Albert, T.H., Glacier retreat in the Peruvian Andes, Geology Colloquium, Bowling Green State University, Bowling Green, Ohio, January 17, 2008.
- Albert, T.H., The effects of global warming on the tropics: from glaciers to hurricanes, Departmental Colloquium, Tallahassee, Community College, 2006.
- Seimon, A., and T. H. Albert, Mapping environmental response to 20th century warming in a tropical Andean cordillera, CIRES Innovative Research Program Selection, University of Colorado, 2003.
- Albert, T.H., J.E. Box, K. Steffen, R. Huff, N. Cullen, and S. Starkweather, Mass and energy balance measurements in the Jakobshavn ablation region, Annual Meeting of the Association of American Geographers (AAG), New Orleans, 2003.
- Box, J.E., K. Steffen, D.H. Bromwich, T.H. Albert, Greenland ice sheet mass balance in regional atmospheric models, Annual Meeting of the Association of American Geographers (AAG), New Orleans, 2003.
- Albert, T.H., The effects of snow on ablation in the lower ablation area of the Greenland ice sheet, Pakitsog, West Greenland, University of Colorado, 2002.
- Albert, T.H., Assessment of Ablation in the Jakobshavn region, west-central Greenland: a modeling approach, University of Colorado, 2002.
- Albert, T.H., L.G. Thompson, E. Mosley-Thompson, Remote sensing methods of ice-area change detection applied to the Quelccaya Ice Cap, Peru, Annual Meeting of the AAG, Los Angeles, 2002.
- Albert, T.H., Proposed calibration scheme for Smart Stakes, University of Colorado, 2002.
- Albert, T.H., Investigations of the recent changes on the Quelccaya ice cap, University of Colorado, 2002.
- Albert, T.H., A high-resolution ablation study near Jakobshavn on the Greenland Ice Sheet, NASA Planning Meeting, University of Colorado, 2001.
- Albert, T.H., Surface lowering parameterization, Greenland Ice Sheet Ablation Zone, University of Colorado, 2001.
- Albert, T.H., Analysis of techniques to determine ice area, University of Colorado, 2001.
- Albert, T.H., Putting sensible heat flux measurements into a global context, University of Colorado, 2001.
- Albert, T.H., L.G. Thompson, and H. Brecher, Techniques for monitoring the retreat of tropical and subtropical glaciers using remotely sensed data, Annual Meeting of the AAG, Pittsburgh, 2000.
- Albert, T.H., Effects of extreme ENSO conditions on summer rainfall in Florida, Annual Meeting of the AAG, Honolulu, Hawaii, 1999.
- Albert, T.H., Geologic Hazards of Florida, The Ohio State University, 1999.
- Albert, T.H., M. Binford, Indigenous American People, The Ohio State University, 1999.
- Albert, T.H., Effects of extreme ENSO events on summer rainfall in Florida, East Lakes Regional Meeting of the AAG, 1998.

Professional Memberships

- Association of American Geographers (AAG), 1997-present
- American Geophysical Union (AGU), 2001-present
- International Glaciological Society (IGS), 2001-present
- American Association for the Advancement of Science (AAAS), 1998-2000
- Gamma Theta Upsilon (GTU), International Geographic Honor Society, Lifetime Member