Short Biographical Sketch – Gordon S. Hamilton

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Education

- **University of Cambridge**, Cambridge, UK.
  Ph.D. in Geophysics: 1992.
- **University of Aberdeen**, Aberdeen, UK.
  B.Sc. (Honors) in Geoscience: 1988.

Career History

- **University of Maine**, Orono, ME.
  2010–present: Associate Professor; Climate Change Institute, and Department of Earth Sciences.
  2006–2010: Associate Research Professor; Climate Change Institute, and Department of Earth Sciences.
  2000–2010: Assistant Research Professor; Climate Change Institute, and Department of Earth Sciences.
- **The Ohio State University**, Columbus, OH.
  1994–2000: Senior Research Associate, Byrd Polar Research Center
- **Norwegian Polar Institute**, Oslo, Norway.
  1992–1994: Research Scientist, Geophysics Division

Five Related Publications

Andersen, M.L., T. Larsen, M. Nettles, P. Elósegui, D. van As, G.S. Hamilton, L.A. Stearns, J.L. Davis, A. Ahlstrøm, J. de Juan, G. Ekström, L. Stenseng, S.A. Khan, R. Forsberg & D. Dahl-Jensen. 2010. Spatial and temporal melt variability at Helheim Glacier, East Greenland, and its effect on ice dynamics. *Journal of Geophysical Research*, **115**, F04041, doi:10.1029/2010JF001760.

Straneo, F., G.S. Hamilton, D.A. Sutherland, L.A. Stearns & A. Rosing-Asvid. 2010. Rapid circulation of warm subtropical waters in a major glacial fjord in East Greenland. *Nature Geoscience*, **3**, 182-186, doi:10.1038/ngeo764.

Sneed, W.A & G.S. Hamilton. 2007 Evolution of melt pond volume on the surface of the Greenland Ice Sheet. *Geophysical Research Letters*, **34**, L03501, doi:10.1029/2006GL028697.

Sneed, W.A. & G.S. Hamilton. 2011. Validation of a method for determining the depth of glacial melt ponds using satellite imagery. *Annals of Glaciology*, **59**, *in press*.

Stearns, L.A. & G.S. Hamilton. 2007. Rapid volume loss from two East Greenland outlet glaciers quantified using repeat stereo satellite imagery. *Geophysical Research Letters*, **34**, L05503, doi:10.1029/2006GL028982.

Five Other Publications

De Juan, J., P. Elósegui, Nettles, M., J.L. Davis, G.S. Hamilton, T. Larsen, L.A. Stearns, A. Ahlstrøm, M.L. Andersen, S.A. Khan, L. Stenseng, G. Ekström & R. Forsberg. 2010. Sudden increase in tidal response linked to calving and acceleration at a large Greenland outlet glacier. *Geophysical Research Letters*, **37**, L12501, doi:10.1029/2010GL043289.

Hamilton, G.S. & I.M. Whillans. 2000. Point measurements of mass balance of the Greenland Ice Sheet using precision vertical GPS surveys. *Journal of Geophysical Research*, **105** (B7), 16,295-16,301.

Nettles, M., T. Larsen, P. Elósegui, G.S. Hamilton, L.A. Stearns, A. Ahlstrøm, J.L. Davis, M.L. Andersen, J. de Juan, S.A. Khan, L. Stenseng, G. Ekström & R. Forsberg. 2008. Stepwise changes in glacier flow speed coincide with calving and glacial earthquakes at Helheim Glacier, Greenland. *Geophysical Research Letters*, **35**, L24503, doi:10.1029/2008GL036127.

Stearns, L.A., G.S. Hamilton & N. Reeh. 2005. Multi-decadal record of ice dynamics on Daugaard Jensen Gletscher, East Greenland, from satellite imagery and terrestrial measurements. *Annals of Glaciology*, **42**, 53-58.

Stearns, L.A., B.L. Smith & G.S. Hamilton. 2008. Increased flow speed on a large East Antarctic outlet glacier caused by subglacial floods. *Nature Geoscience*, **1**, 827-831, doi: 10.1038/ngeo356.

Synergistic Activities

- **Technical expert**, *Parliament of Spain – Committee on Climate Change* (October 2010).
- **Member**, *NASA/NSIDC Operation IceBridge Science Working Group* (February 2010 – present)
- **Panelist**, *NASA ICESat II review panel* (October 2008).
- **Associate Editor**, *Journal of Geophysical Research – Earth Surface* (July 2007 – present)
- **Board member**, *Maine Global Climate Change, Inc.* (December 2006 – present).
- **Institutional representative**, *UNAVCO* (October 2005 – present).
- **Science Team Member**, NASA – Terra/ASTER mission (May 2004 – present)
- **Chief Editor**, *Annals of Glaciology, volume 41* (March 2004 – October 2005)

Advisors & Collaborators

- **Advisors**

  PhD: Julian Dowdeswell, (*University of Cambridge*); Postdoctoral: Jon Ove Hagen, (*Norsk Polarinstitutt, now University of Oslo*)

- **Major collaborators in the last 48 months**

  Morten Andersen (*Geological Survey of Denmark and Greenland*), Steven Arcone (*US Army Cold Regions Research and Engineering Lab*), James Davis (*Smithsonian Astrophysical Observatory*), Pedro Elósegui (*Spanish Institute for Space Studies*), Roger Hooke (*University of Maine*), Shfaqat Abbas Kahn (*Danish National Space Center*), Meredith Nettles (*Lamont Doherty Earth Observatory*), Niels Reeh (*Technical University of Denmark*), Benjamin Smith (*University of Washington*), Fiammetta Straneo (*Woods Hole Oceanographic Institution*), David Sutherland (*Woods Hole Oceanographic Institution*), John Wahr (*University of Colorado*)

- **Thesis committee chair**

  Blue Spikes, PhD (*graduated 2004*), Leigh Stearns, PhD (*graduated 2007*), William Sneed, MS (*graduated 2007*), Daniel Breton, PhD (*expected 2011*), Monica Hall, MS (*expected 2011*), Kristin Schild, MS (*expected 2011*), William Sneed, PhD (*expected 2012*), Nora Weitz, PhD (*expected 2014*)