TYLER C. SUTTERLEY

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EDUCATION

Doctor of Philosophy in Earth System Science 2016
Remote Sensing Observations of Modern-Day Regional Ice Sheet Change
University of California, Irvine

International Summer School in Glaciology 2014
University of Alaska, Fairbanks

Master of Science in Earth System Science 2012
University of California, Irvine

Bachelor of Science in Mechanical Engineering 2008
University of California, San Diego

PROFESSIONAL EXPERIENCE

Postdoctoral Scholar, University of California, Irvine 2016 – current
Graduate Student Researcher, University of California, Irvine 2010 – 2016
Graduate Student Representative, University of California, Irvine 2011 – 2012
Mechanical Engineer of Research & Development, Asymtek 2008 – 2009

REFEREED PUBLICATIONS

A. Khazendar, E. Rignot, D. M. Schroeder, H. Seroussi, M. P. Schodlok, B. Scheuchl, **T. C. Sutterley**, and I. Velicogna, "Rapid submarine ice melting in the grounding zones of ice shelves in West Antarctica," *Nature Geoscience*, 2016 (submitted).

G. Basha, P. Kishore, M. Venkat Ratnam, T. B. M. J. Ouarda, I. Velicogna, **T. C. Sutterley**, "Vertical and latitudinal variation of the intertropical convergence zone derived using GPS radio occultation measurements," *Remote Sensing of Environment*, 2015. doi:10.1016/j.rse.2015.03.024.

P. Kishore , S. Jyothi, G. Basha, S. V. B. Rao, M. Rajeevan, I. Velicogna, **T. C. Sutterley**, "Precipitation climatology over India: validation with observations and reanalysis datasets and spatial trends," *Climate Dynamics*, 2015. doi:10.1007/s00382-015-2597-y.

T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, T. Flament, M. van den Broeke, J. M. van Wessem, C. Reijmer, "Mass loss of the Amundsen Sea Embayment of West Antarctica from four independent techniques," *Geophysical Research Letters*, 2014. doi:10.1002/2014GL061940.

I. Velicogna, **T. C. Sutterley**, M. van den Broeke, "Regional acceleration in ice mass loss from Greenland and Antarctica using GRACE time-variable gravity data," *Geophysical Research Letters*, 2014. doi:10.1002/2014GL061052.

T. C. Sutterley, I. Velicogna, B. Csatho, M. van den Broeke, S. Rezvanbehbahani, G. Babonis, "Evaluating Greenland glacial isostatic adjustment corrections using GRACE, altimetry and surface mass balance data," *Environmental Research Letters*, 2014. doi:10.1088/1748-9326/9/1/014004.

INVITED LECTURES

International Summer School in Glaciology **McCarthy, AK**
Time-Variable Gravity for Glacier and Ice Sheet Mass Balance August 2014

CONFERENCE TALKS

Sutterley, T., Velicogna, I. Rignot, E., Mouginot, J., Flament, T., van den Broeke, M., van Wessem, J., Reijmer, C. Uncertainties in sheet mass balance in Greenland and Antarctica from GRACE and comparison with other methods. *GRACE Science Team Meeting, 2015.*

Sutterley, T., Velicogna, I. Regional Ice Sheet Mass Balance from GRACE time-variable gravity. *Graduate Climate Conference, 2014*

Sutterley, T., Velicogna, I., Rignot, E., Mouginot, J., Flament, T., van den Broeke, M., van Wessem, J., Reijmer, C. Recent Changes in Ice Mass Balance of the Amundsen Sea Embayment. *WAIS Workshop, 2014.*

Sutterley, T., Velicogna, I., van den Broeke, M., Csatho, B. Evaluating glacial isostatic adjustment corrections using GRACE, altimetry, and regional atmospheric climate model outputs. *GRACE Science Team Meeting, 2013.*

Sutterley, T., Velicogna, I., Rignot, E., van den Broeke, M., Csatho, B., Wahr, J., Ivins, E., Wu, X., Mouginot, J. Assessing the accuracy of glacial isostatic adjustment models using GRACE, InSAR, altimetry, and regional atmospheric climate model outputs. *GRACE Science Team Meeting, 2012.*

CONFERENCE POSTERS

Sutterley, T., Velicogna, I. Recent Greenland Thinning from Operation IceBridge ATM and LVIS Data. *Program for Arctic Regional Climate Assessment (PARCA), NASA Goddard Space Flight Center, 2016.*

Sutterley, T., Velicogna, I. Recent Greenland Thinning from Operation IceBridge ATM and LVIS Data. *American Geophysical Union Fall Meeting, 2015.*

Sutterley, T., Velicogna, I., Rignot, E., Mouginot, J., Flament, T., van den Broeke, M., van Wessem, J., Reijmer, C. Recent Changes in Ice Mass Balance of the Amundsen Sea Sector. *American Geophysical Union Fall Meeting, 2014.*

Sutterley, T., Velicogna, I., van den Broeke, M., Csatho, B., Rezvanbehbahani, S., Babonis, G. Using GRACE measurements of time variable gravity, elevation changes from ICESat and OIB and surface mass balance outputs from RACMO to improve ice mass balance estimates. *Program for Arctic Regional Climate Assessment (PARCA), NASA Goddard Space Flight Center, 2014.*

Sutterley, T., Velicogna, I., van den Broeke, M., Csatho, B., Rezvanbehbahani, S., Babonis, G. Using GRACE measurements of time variable gravity, elevation changes from ICESat and OIB and surface mass balance outputs from RACMO to improve ice mass balance estimates. *American Geophysical Union Fall Meeting, 2013.*

Sutterley T., Velicogna, I., Rignot, E., van den Broeke, M., Csatho, B., Wahr, J., Ivins, E. Improving accuracy of glacial isostatic adjustment models and ice mass balance using GRACE, InSAR, altimetry, and regional atmospheric climate model output. *American Geophysical Union Fall Meeting, 2012.*

Sutterley, T., Velicogna, I., Ivins, E., Rignot, E., van den Broeke, M. Evaluation of postglacial rebound models combining GRACE, InSAR, regional atmospheric climate modeling and radar altimetry data. *American Geophysical Union Fall Meeting, 2011.*

PROFESSIONAL MEMBERSHIPS

American Geophysical Union (AGU)
International Glaciological Society (IGS)
Association of Polar Early Career Scientists (APECS)

TEACHING EXPERIENCE

Teaching Assistant: *The Atmosphere*	Spring 2015
Teaching Assistant: *Climate Change*	Spring 2014
Teaching Assistant: *Climate Change*	Spring 2012
Teaching Assistant: *Introduction to Earth System Science*	Fall 2012
Teaching Assistant: *Hurricanes, Tsunamis, and other Catastrophes*	Winter 2012

ACCOLADES

Outstanding Contributions to the Department of Earth System Science 2014 – 2015
Outstanding Contributions to the Department of Earth System Science 2011 – 2012