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## PEER-REVIEWED PUBLICATIONS

- Y. Mohajerani, D. Shean, A. Arendt, and T. C. Sutterley. Automated Dynamic Mascon Generation for GRACE and GRACE-FO Harmonic Processing. *Remote Sensing*, 13(3134), 2021. doi:10.3390/rs13163134
- 2. K. M. Brunt, B. E. Smith, T. C. Sutterley, N. T. Kurtz, and T. A. Neumann. Comparisons of Satellite and Airborne Altimetry With Ground-Based Data From the Interior of the Antarctic Ice Sheet. *Geophysical Research Letters*, 48(2), 2021. doi:10.1029/2020GL090572
- 3. R. L. Hawley, T. A. Neumann, C. M. Stevens, K. M. Brunt, and T. C. Sutterley. Greenland Ice Sheet Elevation Change: Direct Observation of Process and Attribution at Summit. *Geophysical Research Letters*, 47(22), 2020. doi: 10.1029/2020GL088864
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- T. C. Sutterley, I. Velicogna, and C.-W. Hsu. Self-Consistent Ice Mass Balance and Regional Sea Level From Time-Variable Gravity. Earth and Space Science, 7(3), 2020. doi:10.1029/2019EA000860

- 6. A. Shepherd, E. Ivins, E. Rignot, B. Smith, M. van den Broeke, I. Velicogna, P. Whitehouse, K. Briggs, I. Joughin, G. Krinner, S. Nowicki, T. Payne, T. Scambos, N. Schlegel, G. A, C. Agosta, A. Ahlstrøm, G. Babonis, V. R. Barletta, A. A. Bjørk, A. Blazquez, J. Bonin, W. Colgan, B. Csatho, R. Cullather, M. E. Engdahl, D. Felikson, X. Fettweis, R. Forsberg, A. E. Hogg, H. Gallee, A. Gardner, L. Gilbert, N. Gourmelen, A. Groh, B. Gunter, E. Hanna, C. Harig, V. Helm, A. Horvath, M. Horwath, S. Khan, K. K. Kjeldsen, H. Konrad, P. L. Langen, B. Lecavalier, B. Loomis, S. Luthcke, M. McMillan, D. Melini, S. Mernild, Y. Mohajerani, P. Moore, R. Mottram, J. Mouginot, G. Moyano, A. Muir, T. Nagler, G. Nield, J. Nilsson, B. Noël, I. Otosaka, M. E. Pattle, W. R. Peltier, N. Pie, R. Rietbroek, H. Rott, L. S. Sørensen, I. Sasgen, H. Save, B. Scheuchl, E. Schrama, L. Schröder, K.-W. Seo, S. B. Simonsen, T. Slater, G. Spada, T. Sutterley, M. Talpe, L. Tarasov, W. Jan van de Berg, W. van der Wal, M. van Wessem, B. D. Vishwakarma, D. Wiese, D. Wilton, T. Wagner, B. Wouters, J. Wuite, and The IMBIE Team. Mass balance of the Greenland Ice Sheet from 1992 to 2018. 579:233-239. 2020. doi:10.1038/s41586-019-1855-2
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- 13. P. Kishore, J. Jayalakshmi, P.-L. Lin, I. Velicogna, T. C. Sutterley, E. Ciracì, Y. Mohajerani, and S. Kumar. Investigation of Kelvin wave periods during Hai-Tang typhoon using Empirical Mode Decomposition. Iournal of Atmospheric and Solar-Terrestrial Physics, 164:192–202, 2017. doi: 10.1016/j.jastp.2017.07.025
- 14. A. Khazendar, E. J. Rignot, D. M. Schroeder, H. Seroussi, M. P. Schodlok, B. Scheuchl, J. Mouginot, T. C. Sutterley, and I. Velicogna. Rapid submarine ice melting in the grounding zones of ice shelves in West Antarctica. Nature Communications, 7(13243), 2016. doi:10.1038/ncomms13243
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- 19. I. Velicogna, T. C. Sutterley, and M. R. van den Broeke. Regional acceleration in ice mass loss from Greenland and Antarctica using GRACE time-variable gravity data. Geophysical Research Letters, 41(22):8130-8137, 2014. 2014GL061052. doi:10.1002/2014GL061052
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### CONFERENCE TALKS

- T. C. Sutterley, B. Smith, M. van den Broeke, B. Noël, M. Tedesco, P. M. Alexander, and X. Fettweis. Seasonal evaluation of surface mass balance and firn model outputs from satellite and airborne lidar mapping. *American Geophysical Union* Fall Meeting, C41A-03, 2019
- 2. T. C. Sutterley, I. Velicogna, and C.-W. Hsu. Uncertainties in ice sheet mass balance in Greenland and Antarctica from GRACE time-variable gravity. *GRACE Science Team Meeting*, 2018
- T. C. Sutterley, I. Velicogna, X. Fettweis, M. van den Broeke, E. Rignot, T. Markus, and T. Neumann. Evaluation of regional atmospheric climate model outputs from satellite and airborne lidar mapping. *Operation IceBridge Science Team Meeting*, 2018
- 4. T. C. Sutterley, I. Velicogna, X. Fettweis, and M. van den Broeke. Surface mass balance model evaluation from satellite and airborne lidar mapping. *American Geophysical Union Fall Meeting*, C12B-O5, 2016
- T. C. Sutterley, I. Velicogna, X. Fettweis, and M. van den Broeke. Assessment of Surface Mass Balance models using Operation IceBridge altimetry. Operation IceBridge Science Team Meeting, 2016
- T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, T. Flament, M. van den Broeke, J. M. van Wessem, and C. Reijmer. Uncertainties in sheet mass balance in Greenland and Antarctica from GRACE and comparison with other methods. GRACE Science Team Meeting, 2015
- 7. T. C. Sutterley and I. Velicogna. Regional ice sheet mass balance from GRACE time-variable gravity. *Graduate Climate Conference*, 2014
- 8. T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, T. Flament, M. van den Broeke, J. M. van Wessem, and C. Reijmer. Recent Changes in Ice Mass Balance of the Amundsen Sea Embayment. *WAIS Workshop*, 2014
- 9. T. C. Sutterley, I. Velicogna, M. van den Broeke, and B. Csatho. Evaluating glacial isostatic adjustment corrections using GRACE, altimetry, and regional atmospheric climate model outputs. *GRACE Science Team Meeting*, 2013
- 10. T. C. Sutterley, I. Velicogna, E. Rignot, M. van den Broeke, B. Csatho, J. Wahr, E. Ivins, X. Wu, and J. Mouginot. 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

- T. C. Sutterley, B. E. Smith, K. Brunt, and M. Siegfried. Evaluating Southern Ocean Tides Using ICESat-2 data over Ice Shelves. *American Geophysical Union Fall Meeting*, C028-0012, 2020
- T. C. Sutterley, I. Velicogna, and C.-W. Hsu. Self-Consistent Ice Mass Balance and Regional Sea Level from Time-Variable Gravity. The National Academies of Science Space Science Week, 2019
- T. C. Sutterley, T. Markus, T. Neumann, M. van den Broeke, J. M. van Wessem, and S. Ligtenberg. Antarctic Ice Shelf Thickness Change from Multi-Mission Lidar Mapping. American Geophysical Union Fall Meeting, C13B-1145, 2018

- T. C. Sutterley, I. Velicogna, and C.-W. Hsu. Self-Consistent Ice Mass Balance and Regional Sea Level from GRACE. Program for Arctic Regional Climate Assessment (PARCA), NASA Goddard Space Flight Center, 2018
- T. C. Sutterley, I. Velicogna, T. Markus, and T. Neumann. Antarctic surface elevation and slope from multi-mission lidar mapping. *American Geophysical Union Fall Meeting*, C51A-0960, 2017
- T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, T. Neumann, and T. Markus. West Antarctic surface elevation change from CryoSat-2 radar altimetry and multimission lidar mapping. *International Glaciological Society Symposium: Polar Ice, Polar Climate, Polar Change*, 2017
- T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, X. Fettweis, and M. van den Broeke. Greenland surface elevation change from CryoSat-2 radar altimetry and multi-mission lidar mapping. *Program for Arctic Regional Climate* Assessment (PARCA), NASA Goddard Space Flight Center, 2017
- 8. T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, X. Fettweis, and M. van den Broeke. Recent Greenland Thinning from Operation IceBridge ATM and LVIS Data. *Program for Arctic Regional Climate Assessment (PARCA)*, NASA Goddard Space Flight Center, 2016
- T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, X. Fettweis, and M. van den Broeke. Recent Greenland Thinning from Operation IceBridge ATM and LVIS Data. American Geophysical Union Fall Meeting, C53C-0797, 2015
- T. C. Sutterley, I. Velicogna, E. Rignot, J. Mouginot, T. Flament, M. van den Broeke, J. M. van Wessem, and C. Reijmer. Recent Changes in Ice Mass Balance of the Amundsen Sea Sector. American Geophysical Union Fall Meeting, C21B-O315, 2014
- 11. T. C. Sutterley, I. Velicogna, B. Csatho, M. R. van den Broeke, S. Rezvanbehbahani, and G. Babonis. 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
- 12. T. C. Sutterley, I. Velicogna, M. R. van den Broeke, B. Csatho, S. Rezvanbehbahani, and G. Babonis. 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*, C51A-O515, 2013
- 13. T. C. Sutterley, I. Velicogna, M. R. van den Broeke, B. Csatho, J. Wahr, and E. Ivins. Improving accuracy of glacial isostatic adjustment models and ice mass balance using GRACE, InSAR, altimetry, and regional atmospheric climate model outputs. *American Geophysical Union Fall Meeting*, G21A-O879, 2012
- T. C. Sutterley, I. Velicogna, E. Ivins, E. Rignot, and M. R. van den Broeke. Evaluation of postglacial rebound models combining GRACE, InSAR, regional atmospheric climate modeling and radar altimetry data. *American Geophysical Union Fall Meeting*, G21A-0798, 2011

### MENTORSHIP Committee Member

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2019-