David T. Sandwell

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Present Position: Professor of Geophysics, Scripps Institution of Oceanography

Education:

Ph.D. 1981	University of California at Los Angeles, Geophysics and Space Physics
M.S. 1978	University of California at Los Angeles, Geophysics
B.S. 1975	University of Connecticut, Major Physics, Minor Mathematics

Professional Experience:

1989 – 93	Scripps Institution of Oceanography, Associate Professor
1985 – 89	University of Texas at Austin, Research Scientist
1982 – 85	National Geodetic Survey, Research Geophysicist

Awards and Memberships:

2/21	Fellow of the AAAS
12/18	Charles A. Whitten Medal - AGU
4/12	Member of the US National Academy of Sciences
4/08	Fellow of the American Academy of Arts and Sciences
11/04	George P. Woollard Award and Fellow of the Geological Society of America
12/97	Fellow of the American Geophysical Union
12/95	Bowie Lecture American Geophysical Union
6/80	International Association of Geodesy
6/77	American Geophysical Union

Other Experience:

10/21 -	Member of Committee on Earth Science and Observations from Space
9/18 – 4/20	Chair of Committee on Evolving the Geodetic Infrastructure
6/16 – 4/18	Chair of the Solid Earth Panel of the NASA Decadal Planning Committee
1/14 – *2/18*	Member of Temporary Nominating Group, National Academy of Sciences
1/13 – 8/16	Member of UNAVCO Board of Directors
1/13 – 1/17	Member of ALOS-2 Calibration and Validation Team, JAXA
1/12 – 9/18	Member of SCEC Planning Committee
9/11 – 9/16	Chair of Geophysics Curricular Group, SIO
1/11 - 12/14	Chair of NRC Committee on Seismology and Geodynamics
1/08 - 12/12	President Geodesy Section of the AGU
1/07 - 1/09	Chair of Western North America InSAR Consortium (WInSAR)
5/05 - 9/05	Member of committee to review ESA's Earth Observation Envelope Programme
6/03 - 7/04	Member of NASA Jupiter Orbiter Icy Moons Science Definition Team
6/01 - 4/04	Associate Editor of *Journal of Geophysical Research*
2/01 - 12/03	Member of NRC U.S. National Committee to the IUGG
10/99 - 7/02	Chair of Western North America InSAR Consortium (WInSAR)
9/98 - 6/01	Member of NRC Space Studies Board, Committee on Earth Studies
5/95 - 12/96	Member of NRC, US Committee on Geodynamics
2/92 - 12/95	Office of Technology Assessment Panel on Earth Observing Systems
6/90 - 1/95	Member of National Research Council, Committee on Geodesy
12/86 - 1/91	Science steering group member for NASA's satellite gravity program
1/87 - 12/90	Associate Editor, *Reviews of Geophysics and Space Physics*
2/85 - 1/89	Associate Editor, *Journal of Geophysical Research*

Recent Research Funding:

06/19 -	NASA – Estimating Seismic Hazard along the SAFs from InSAR and GPS
10/18 -	NSF - Harnessing the InSAR Data Revolution: GMTSAR
09/17 -	ONR - Impoved Global and Coastal Bathymetry
04/16 -	NASA - Participation in the SWOT Science Team: Marine Geophysics
01/15 -	SCEC - Improving the Community Geodetic Model with GPS and InSAR
10/13 -	Google - Global Predicted Bathymetry for Google Earth and Beyond

Cruise Participation:

10/17	Co-chief on R/V Revelle to map Mendocino Fracture Zone
9/03	Co-chief on R/V Revelle to test feasibility of Synthetic Aperture Sonar
2/97	Participant in expedition to Foundation Seamounts, South Pacific
1/94	Co-chief scientist on R/V Melville to map Eltanin and Udintsev Fracture Zones
1/93	Chief scientist on R/V Melville to map Pukapuka En-Echelon Ridges
2/89	Assistant scientist on R/V Surveyor to map the Shackleton Fracture Zone
3/87	Assistant chief scientist on R/V Washington to explore Seasat gravity lineations
5/83	Participating scientist on Bermuda Swell heat flow experiment

Publications:

2022

Gevorgian, J., **Sandwell**, D.T., Yu, Y., Kim, S.S. and Wessel, P., 2022. Global Distribution and Morphology of Small Seamounts. Submitted to Earth and Space Science.

Guns, K., Xu, X., Bock, Y. and **Sandwell,** D., 2022. GNSS-corrected InSAR displacement time-series spanning the 2019 Ridgecrest, CA earthquakes. Geophysical Journal International, 230(2), pp.1358-1373.

Sandwell, D.T., Goff, J.A., Gevorgian, J., Harper, H., Kim, S.S., Yu, Y., Tozer, B., Wessel, P. and Smith, W.H., 2022. Improved Bathymetric Prediction using Geological Information: SYNBATH. Earth and Space Science, 9(2), p.e2021EA002069.

Sandwell, D. T. 2022. *Advanced Geodynamics: Fourier Transform Methods*, Cambridge University Press, 281 pp.

2021

Xu, X., **Sandwell**, D.T., Klein, E. and Bock, Y., 2021. Integrated Sentinel-1 InSAR and GNSS Time-Series Along the San Andreas Fault System. Journal of Geophysical Research: Solid Earth, 126(11), p.e2021JB022579.

Yu, Y., **Sandwell,** D.T., Gille, S.T. and Villas Bôas, A.B., 2021. Assessment of ICESat-2 for the recovery of ocean topography. Geophysical Journal International, 226(1), pp.456-467.

Zhang, S., Abulaitijiang, A., Andersen, O.B., **Sandwell**, D.T. and Beale, J.R., 2021. Comparison and evaluation of high-resolution marine gravity recovery via sea surface heights or sea surface slopes. Journal of Geodesy, 95(6), pp.1-17.

Ward, L.A., Smith-Konter, B.R., Xu, X. and **Sandwell,** D.T., 2021. Seismic Moment Accumulation Response to Lateral Crustal Variations of the San Andreas Fault System. Journal of Geophysical Research: Solid Earth, 126(4), p.e2020JB021208.

Harper, H., Tozer, B., **Sandwell**, D.T. and Hey, R.N., 2021. Marine vertical gravity gradients reveal the global distribution and tectonic significance of “seesaw” ridge propagation. Journal of Geophysical Research: Solid Earth, 126(2), p.e2020JB020017.

Andersen, O.B., Zhang, S., **Sandwell,** D.T., Dibarboure, G., Smith, W.H. and Abulaitijiang, A., 2021. The unique role of the Jason geodetic missions for high resolution gravity field and mean sea surface modelling. Remote Sensing, 13(4), p.646.

Sandwell, D. T., Harper, H., Tozer, B., & Smith, W. H. (2021). Gravity Field Recovery from Geodetic Altimeter Missions. Advances in Space Research, 68(2), pp.1059-1072.

2020

Sepulveda, I., Haase, J.S., Liu, P.L.F., Grigoriu, M., Tozer, B. and **Sandwell**, D., 2020. Uncertainty of Mathymetry Models and Effect on Tsunami. Coastal Engineering Proceedings, (36v), pp.22-22.

Alafate, J., Freund, Y., **Sandwell**, D.T. and Tozer, B., 2020. Experimental Design for Bathymetry Editing. arXiv preprint arXiv:2007.07495.

Ponti, D.J., Blair, J.L., Rosa, C.M., Thomas, K., Pickering, A.J., Akciz, S., Angster, S., Avouac, J.P., Bachhuber, J., Bacon, S. et al., 2020. Documentation of Surface Fault Rupture and Ground-Deformation Features Produced by the 4 and 5 July 2019 M w 6.4 and M w 7.1 Ridgecrest Earthquake Sequence. Seismological Society of America, 91(5), pp.2942-2959.

Xu, X., **Sandwell**, D.T., Ward, L.A., Milliner, C.W., Smith-Konter, B.R., Fang, P. and Bock, Y., 2020. Surface deformation associated with fractures near the 2019 Ridgecrest earthquake sequence. Science, 370(6516), pp.605-608.

Verron, J., Bonnefond, P., Andersen, O., Ardhuin, F., Bergé-Nguyen, M., Bhowmick, S., Blumstein, D., Boy, F., Brodeau, L., Crétaux, J.F. and Dabat, M.L., 2020. The SARAL/AltiKa mission: A step forward to the future of altimetry. Advances in Space Research.

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Sandwell, D. T., et al., (2020). Evolving the Geodetic Infrastructure to Meet New Scientific Needs, The National Academies Press, DOI: 10.17226/25579, https://www.nap.edu/catalog/25579/evolving-the-geodetic-infrastructure-to-meet-new-scientific-needs

2019

Xu, X. and **Sandwell**, D.T., 2019. Toward absolute phase change recovery with InSAR: Correcting for earth tides and phase unwrapping ambiguities. IEEE Transactions on Geoscience and Remote Sensing, 58(1), pp.726-733.

Tymofyeyeva, E., Fialko, Y., Jiang, J., Xu, X., **Sandwell**, D., Bilham, R., Rockwell, T.K., Blanton, C., Burkett, F., Gontz, A. and Moafipoor, S., 2019. Slow slip event on the southern San Andreas fault triggered by the 2017 M w 8.2 Chiapas (Mexico) earthquake. Journal of Geophysical Research: Solid Earth, 124(9), pp.9956-9975.

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Klein, E., Bock, Y., Xu, X., **Sandwell**, D.T., Golriz, D., Fang, P. and Su, L., 2019. Transient deformation in California from two decades of GPS displacements: Implications for a three-dimensional kinematic reference frame. Journal of Geophysical Research: Solid Earth, 124(11), pp.12189-12223.

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Xu, X., Ward, L. A., Jiang, J., Smith-Konter, B., Tymofyeyeva, E., Lindsey, E. O., ... & **Sandwell**, D. T. (2018). Surface creep rate of the Southern San Andreas Fault modulated by stress perturbations from nearby large events. Geophysical Research Letters, 45(19), 10-259.

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Zhang, S., D. T. **Sandwell**, T. Jin, and D. Li, Inversion of marine gravity anomalies over southeastern China seas from multi-satellite altimeter vertical deflections. Journal of Applied Geophysics, 137, 128-137, http://dx.doi.org/10.1016/j.jappgeo.2016.12.014, 2017.

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Basset, D. D. T. **Sandwell,** Y. Fialko, and A. B. Watts, Upper-plate controls on co-seismic slip in the 2011 magnitude 9.0 Tohoku-oki earthquake, Nature, 531, 92-96, doi:10.1038/nature16945. 2016.

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2015

Xu, X., X. Tong, D. T. **Sandwell**, C. Millner, J. F. Dolan, J. Hollingsworth, S. Leprince, F. Ayoub, Refining the shallow slip deficit, Geophys. J. Int., 203, 48-62, doi: 10.1093/gji/ggv269, 2015.

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Lindsey, E., R. Natsuaki, X. Xu, M. Shimada, H. Hashimoto, D. Melgar, and D. **Sandwell**, Line of Sight Deformation from ALOS-2 Interferometry: Mw 7.8 Gorkha Earthquake and Mw 7.3 Aftershock, Geophysical Research Letters, 42. doi:10.1002/2015GL065385, 2015.

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Tong, X., D.T. **Sandwell**, and B. Smith-Konter, An integral method to estimate the moment accumulation rate on the Creeping Section of the San Andreas Fault, Geophys. J. Int., 203, 48-62, doi: 10.1093/gji/gjis140783, 2015.

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Garcia, E. S., D. T. **Sandwell**, and K. M. Luttrell, An Iterative Spectral Solution Method for Thin Elastic Plate Flexure with Variable Rigidity, Geophys. J. Int., 200, 1012-1028, doi: 10.1093/gji/ggu449, 2014.

Trugman, D. T., A. A. Borsa, and D. T. **Sandwell**, Did Stresses From the Cerro Prieto Geothermal Field Influence the El Mayor-Cucapah Rupture Sequence?, Geophys. Res. Lett., 41, doi:10.1002/ 2014GL061959, 2014.

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Lindsey, E. O., Y. Fialko, Y. Bock, D. T. **Sandwell**, and R. Bilham, Localized and distributed creep along the southern San Andreas Fault, J. Geophys. Res. Solid Earth, 119, 7909–7922, doi:10.1002/2014JB011275, 2014.

Malinverni, E. S., D. T. **Sandwell**, A. N. Tassetti, and L. Cappelletti, InSAR decorrelation to assess and prevent volcanic risk, European Journal of Remote Sesning, 47, 537-556, doi: 10.5721/EuJRS20144730, 2014.

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Tong, X., B. Smith-Konter, and D. T. **Sandwell,** Is there a discrepancy between geological and geodetic slip rates along the San Andreas Fault System? , J. Geophys. Res. Solid Earth, 119, doi:10.1002/2013JB010765, 2014.

Gonzalez-Ortega, A., Y. Fialko, D. **Sandwell**, F. Alejandro Nava-Pichardo, J. Fletcher, J. Gonzalez-Garcia, B. Lipovsky, M. Floyd, and G. Funning, El Mayor-Cucapah (Mw 7.2) earthquake: Early near-field postseismic deforma- tion from InSAR and GPS observations, J. Geophys. Res. Solid Earth, 119, doi:10.1002/2013JB010193, 2014.

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