

## David T. Sandwell

### Contact Information:

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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:

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  
9/98 Society for Exploration Geophysics  
6/80 International Association of Geodesy  
6/77 American Geophysical Union

### Other Experience:

9/18 - 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 - Improved 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:

David T. Sandwell – October 15, 2019

## 2019

Xu, X., D. T. **Sandwell**, Toward Absolute Phase Change Recovery With InSAR: Correcting for Earth Tides and Phase Unwrapping Ambiguities, IEEE Transactions on Geoscience and Remote Sensing,, in press, 2019.

**Sandwell**, D. T., Harper, H., Tozer, B., & Smith, W. H. (2019). Gravity Field Recovery from Geodetic Altimeter Missions. *Advances in Space Research*.

Tymofyeyeva, E., Fialko, Y., Jiang, J., Xu, X., **Sandwell**, D., Bilham, R., ... & Moafipoor, S. Slow slip event on the southern San Andreas fault triggered by the 2017 Mw8. 2 Chiapas (Mexico) earthquake. *Journal of Geophysical Research: Solid Earth*.

DeSanto, J. B., & **Sandwell**, D. T. (2019). Meter-scale seafloor geodetic measurements obtained from repeated multibeam sidescan surveys. *Marine Geodesy*, (just-accepted), 1-10.

Abulaitjiang, A., Andersen, O. B., & **Sandwell**, D. (2019). Improved Arctic Ocean bathymetry derived from DTU17 gravity model. *Earth and Space Science*.

DeSanto, J. B., Chadwell, C. D., & **Sandwell**, D. T. (2019). Kinematic Post-processing of Ship Navigation Data Using Precise Point Positioning. *The Journal of Navigation*, 72(3), 795-804.

Garcia, E. S. M., **Sandwell**, D. T., & Bassett, D. (2019). Outer trench slope flexure and faulting at Pacific basin subduction zones. *Geophysical Journal International*, 218(1), 708-728.

Tozer, B., **Sandwell**, D. T., Smith, W. H. F., Olson, C., Beale, J. R., & Wessel, P. (2019). Global bathymetry and topography at 15 arc seconds: SRTM15+. *Earth and Space Science*.

Klein, E., Bock, Y., Xu, X., **Sandwell**, D. T., Golriz, D., Fang, P., & 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*.

## 2018

Wittich, Christine E.; Hutchinson, Tara C.; DeSanto, J.; and **Sandwell**, D., "3-D Reconstructions and Numerical Simulations of Precarious Rocks in Southern California", Civil Engineering Faculty Publications. 154. <https://digitalcommons.unl.edu/civilengfacpub/154>, 2018.

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.

**Sandwell**, D., B. Smith-Konter, Maxwell: A Semi-analytic 4D Code for Earthquake Cycle Modeling of Transform Fault Systems, *Computers and Geosciences*, 10.1016/j.cageo.2018.01.009, 2018.

Tong, X., D. T. **Sandwell**, and D. A. Schmidt. Surface creep rate and moment accumulation rate along the Aceh segment of the Sumatran fault from L-band ALOS-1/PALSAR-1 observations. *Geophysical Research Letters*, doi.org/10.1002/2017GL076723, 2018.

González-Ortega, J. A., González-García, J. J., & **Sandwell**, D. T.. Interseismic velocity field and seismic moment release in northern Baja California, Mexico. *Seismological Research Letters*, 89(2A), 526-533, doi.org/10.1785/0220170133, 2018.

## 2017

Mueller, R. D., Matthews, K. J., & **Sandwell**, D. T., Advances in imaging small-scale seafloor and sub-seafloor tectonic fabric using satellite altimetry. Stammer D and Cazenave A. *Satellite Altimetry over Ocean and Land Surfaces*. doi, 10, 9781315151779-16., 2017

Zhang, S., **Sandwell**, D. T., Jin, T., & Li, D., Inversion of marine gravity anomalies over southeastern China seas from multi-satellite altimeter vertical deflections. *Journal of Applied Geophysics*, 137, 128-137, 2017

Xu, X., **Sandwell**, D. T., & Bassett, D., A spectral expansion approach for geodetic slip inversion: implications for the downdip rupture limits of oceanic and continental megathrust earthquakes. *Geophysical Journal International*, 212(1), 400-41, doi.org/10.1093/gji/ggx408, 2017

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.

Xu, X., **Sandwell**, D. T., Tymofyeyeva, E., González-Ortega, A., & Tong, X., Tectonic and anthropogenic deformation at the Cerro Prieto geothermal step-over revealed by Sentinel-1A InSAR. *IEEE Transactions on Geoscience and Remote Sensing*, 55(9), 5284-5292, DOI: 10.1109/TGRS.2017.2704593, 2017.

## 2016

**Sandwell**, D. T., and P. Wessel, Interpolation of 2-D vector data using constraints from elasticity, *Geophys. Res. Lett.*, 43, doi:10.1002/2016GL070340, 2016.

DeSanto, J. B., D. T. **Sandwell**, and C. D. Chadwell, Seafloor geodesy from repeated sidescan sonar surveys, *J. Geophys. Res. Solid Earth*, 121, 4800–4813, doi:10.1002/2016JB013025, 2016.

Zhang, S., D. T. **Sandwell**, Retracking of SARAL/AltiKa radar altimetry waveforms for optimal gravity field recovery, *Marine Geodesy*, DOI: 10.1080/01490419.2016.1265032, 2016.

Howell, S., B. Smith-Konter, N. Fraizer, X. Tong, and D.T. **Sandwell**, The vertical fingerprint of earthquake-cycle loading in Southern California, *Nature Geosciences*, doi: 10.1093/2015-03-04591 2016.

Müller RD, Qin X, **Sandwell** DT, Dutkiewicz A, Williams SE, Flament N, et al., The GPlates Portal: Cloud-Based Interactive 3D Visualization of Global Geophysical and Geological Data in a Web Browser. *PLoS ONE* 11(3): e0150883. doi:10.1371/journal.pone.0150883, 2016.

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Matthews, K. J., R.D. Müller, D.T. **Sandwell**, Oceanic microplate formation records the onset of India–Eurasia collision, *Earth and Planetary Science Letters* 433, 204-214, 2016.

#### 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.

Neves, M.C., J. Cabral, K. Luttrell, P. Figueiredo, T. Rockwell, and D. **Sandwell**, The effect of sea level changes on fault reactivation potential in Portugal, *Tectonophysics*, 658, 206-220, 2015.

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.

O'Connor, J., K. Hoernle, N. Butterworth, R. D. Müller, F. Hauff, D. **Sandwell**, J. Morgan, W. Jokatt, and P. Stoffers, Deformation-related volcanism links the Hawaiian Bend to slab subduction and mantle flow, *Nature Geosciences*, 8, p393-397, DOI: 10.1038/NGEO2416, 2015.

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#### 2014

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.

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Schultz, R. A., K. A. Soofi, P. H. Hennings, X. Tong, and D. T. **Sandwell**, Using InSAR to detect active deformation associated with faults in Suban field, South Sumatra Basin, Indonesia, *The Leading Edge*, 33(8), 882-888, August, 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.

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Garcia, E., D. T. **Sandwell**, W. H. F. Smith. Retracking CryoSat-2, Envisat, and Jason-1 Radar Altimetry Waveforms for Improved Gravity Field Recovery, *Geophysical Journal International*, doi: 10.1093/gji/ggt469, 2014.

#### 2013

**Sandwell**, D. T., and W. H. F. Smith, Slope Correction for Ocean Radar Altimetry, *Journal of Geodesy*, DOI 10.1007/s00190-014-0720-1, 2013.

**Sandwell**, D. T., Book Review: Physical principles of remote sensing: third edition, *Geophysical J. Int.*, doi: 10.1093/gji/ggt314, 2013.

Marks, K. M., W. H. F. Smith, and D. T. **Sandwell**, Significant improvements in marine gravity from ongoing satellite missions, *Marine Geophysical Researches*, DOI 10.1007/s11001-013-9190-8, 2013.

**Sandwell, D.**, E. Garcia, K. Soofi, P. Wessel, M. Chandler, and W. H. F. Smith, Toward 1-mGal accuracy in global marine gravity from CryoSat-2, Envisat, and Jason-1, *The Leading Edge*, 32(8), 892–899. doi:10.1190/le32080892.1, 2013.

Crowell, B. W., Y. Bock, D. T. **Sandwell**, and Y. Fialko, Geodetic investigation into the deformation of the Salton Trough, *J. Geophys. Res. Solid Earth*, 118, 5030–5039, doi:10.1002/jgrb.50347, 2013.

Kaneko, Y., Y. Fialko, D. T. **Sandwell**, X. Tong, and M. Furuya, Interseismic deformation and creep along the central section of the North Anatolian Fault (Turkey): InSAR observations and implications for rate-and-state friction properties, *J. Geophys. Res. Solid Earth*, 118, doi:10.1029/2012JB009661, 2013.

Tong, X., D. T. **Sandwell**, and B. Smith-Konter, High-resolution interseismic velocity data along the San Andreas Fault from GPS and InSAR, *J. Geophys. Res.; Solid Earth*, 118, doi:10.1029/2012JB009442, 2013.

## 2012

Meyer, F.J., **Sandwell**, D.T., SAR interferometry at Venus for topography and change detection. *Planetary and Space Science*, <http://dx.doi.org/10.1016/j.pss.2012.10.006>, 2012.

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## 2011

Luttrell, K. M., X. Tong, D. T. **Sandwell**, B. A. Brooks, and M. G. Bevis, Estimates of stress drop and crustal tectonic stress from the 27 February 2010 Maule, Chile, earthquake: Implications for fault strength, *J. Geophys. Res.*, 116, B11401, doi:10.1029/2011JB008509, 2011.

**Sandwell**, D. ., R. . Mellors, X. Tong, M. Wei, and P. Wessel, Open radar interferometry software for mapping surface deformation, *Eos Trans. AGU*, 92(28), doi:10.1029/2011EO280002, 2011

Smith-Konter, B., D. **Sandwell**, and P. Shearer, Comparison of locking depths estimated from geodesy and seismology along the San Andreas Fault System, *J. Geophys. Res.*, 116, B06401, doi:10.1029/2010JB008117., 2011.

Wei, M., D. **Sandwell**, Y. Fialko, and R. Bilham Slip on faults in the Imperial Valley triggered by the 4 April 2010 Mw 7.2 El Mayor-Cucapah earthquake revealed by InSAR *Geophys. Res. Lett.*, 8, L01308, doi:10.1029/2010GL045235, 2011

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Tong, X., D. **Sandwell**, K. Luttrell, B. Brooks, M. Bevis, M. Shimada, J. Foster, R. Smalley Jr., H. Parra, J. C. Báez Soto, M. Blanco, E. Kendrick, J. Genrich, and D. J. Caccamise II, The 2010 Maule, Chile earthquake: Downdip rupture limit revealed by space geodesy, *Geophys. Res. Lett.*, 37, L24311, doi:10.1029/2010GL045805, 2010.

Marks, K. M., W. H. F. Smith, and D. T. **Sandwell**, Evolution of errors in the altimetric bathymetry model used by Google Earth and GEBCO, *Mar. Geophys. Res.*, 31, p., 223-238, DOI 10.1007/s11001-010-9102-0, 2010.

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**Sandwell**, D. T., and P. Wessel, Seamount discovery tool aids navigation to uncharted seafloor features, *Oceanography*, 23:1, p. 34 - 36, 2010.

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Barbot, S. Y. Fialko, and D. T. **Sandwell**, Three-dimensional models of elasto-static deformation in heterogeneous media: application to the East California Shear Zone, *Geophys. J. Int.*, 179, p. 500-520, doi: 10.1111/j.1365-246X.2009.04194.x, 2009.

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#### 2007

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#### 2005

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## 2002

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