2019 GSN Citations

Between January 1, 2019 to December 31, 2019 there were 244 references to Global Seismographic Network (GSN) related data in published scientific literature. This includes 193 references in top/prominent earth science journals (listed below).

The eleven most prominent earth science journals were given priority while searching (as per standard IRIS citation collection method). These journals are:

- Bulletin of Seismological Society of America (BSSA) -23
- Journal of Geophysical Research (JGR) -36
- Geophysical Journal International (GJI) -39
- Seismological Research Letters (SRL) -28
- Geophysical Research Letters (GRL) -17
- Earth and Planetary Science Letters (EPSL) -13
- Physics of the Earth and Planetary Interior (PEPI) -7
- Tectonophysics (TP) -16
- Nature and related journals -11
- Science and related journals -1
- Geology -2

In order to explore the use of GSN data outside of the traditional earth science sphere a more generalized search was performed, resulting in 51 citations, ranging in study from seismic precursors to landslide events to the capabilities of seafloor-based ocean observing using undersea telecommunications cables.

Journals were searched for the following key words:

- SN/II and doi.org/10.7914/SN/II
- SN/IU and doi.org/10.7914/SN/IU
- SN/IC and doi.org/10.7914/SN/IC
- SN/CU and doi.org/10.7914/SN/CU
- IDA/ International Deployment of Accelerometers
- GSN
- Global Seismic/Seismologic/Seismograph/Seismographic Network
- Global CMT/ Global Centroid-Moment-Tensor
    - Ekström Et al 2012
    - Globalcmt.org
- Global Seismic (combined with IRIS, USGS)
- Station codes for the top 20 most downloaded station data IU.ANMO, II.PFO, II.BRVK/ II.BORK, II.KURK, II.AAK, IU.QSPA, IC.MDJ, IU.MAKZ , II.DGAR, II.KDAK, II.WRAB, II.RAYN, II.KAPI, IU.SJG, GT.VNDA (auxiliary seismic station), IU.ADK, IU.CTAO, IU.MWBA, II.NIL

2019 Alphabetical Bibliography

Adams, Mareike, Jinlai Hao, and Chen Ji. “Energy-Based Average Stress Drop and Its Uncertainty during the 2015 Mw 7.8 Nepal Earthquake Constrained by Geodetic Data and Its Implications to Earthquake Dynamics.” *Geophysical Journal International* 217, no. 2 (May 1, 2019): 784–97. https://doi.org/10.1093/gji/ggz047.

Aflaki, M, Z Mousavi, A Ghods, E Shabanian, S Vajedian, and M Akbarzadeh. “The 2017 Mw 6 Sefid Sang Earthquake and Its Implication for the Geodynamics of NE Iran.” *Geophysical Journal International* 218, no. 2 (August 1, 2019): 1227–45. https://doi.org/10.1093/gji/ggz172.

Agurto-Detzel, H., Y. Font, P. Charvis, M. Régnier, A. Rietbrock, D. Ambrois, M. Paulatto, et al. “Ridge Subduction and Afterslip Control Aftershock Distribution of the 2016 Mw 7.8 Ecuador Earthquake.” *Earth and Planetary Science Letters* 520 (August 15, 2019): 63–76. https://doi.org/10.1016/j.epsl.2019.05.029.

Álvarez-Gómez, José A., Alejandra Staller Vázquez, José J. Martínez-Díaz, Carolina Canora, Jorge Alonso-Henar, Juan M. Insua-Arévalo, and Marta Béjar-Pizarro. “Push-Pull Driving of the Central America Forearc in the Context of the Cocos-Caribbean-North America Triple Junction.” *Scientific Reports (Nature)* 9, no. 1 (August 1, 2019): 11164. https://doi.org/10.1038/s41598-019-47617-3.

Ammirati, Jean-Baptiste, Gabriel Vargas, Sofía Rebolledo, Rachel Abrahami, Bertrand Potin, Felipe Leyton, and Sergio Ruiz. “The Crustal Seismicity of the Western Andean Thrust (Central Chile, 33°–34° S): Implications for Regional Tectonics and Seismic Hazard in the Santiago AreaThe Crustal Seismicity of the Western Andean Thrust (Central Chile, 33°–34° S).” *Bulletin of the Seismological Society of America* 109, no. 5 (October 1, 2019): 1985–99. https://doi.org/10.1785/0120190082.

Asano, Kimiyuki, and Tomotaka Iwata. “Source Rupture Process of the 2018 Hokkaido Eastern Iburi Earthquake Deduced from Strong-Motion Data Considering Seismic Wave Propagation in Three-Dimensional Velocity Structure.” *Earth, Planets and Space* 71, no. 1 (September 18, 2019): 101. https://doi.org/10.1186/s40623-019-1080-0.

Astafyeva, E., and K. Shults. “Ionospheric GNSS Imagery of Seismic Source: Possibilities, Difficulties, and Challenges.” *Journal of Geophysical Research: Space Physics* 124, no. 1 (2019): 534–43. https://doi.org/10.1029/2018JA026107.

Attanayake, Januka, Dan Sandiford, Lisa S. Schleicher, Abraham Jones, Gary Gibson, and Mike Sandiford. “Interacting Intraplate Fault Systems in Australia: The 2012 Thorpdale, Victoria, Seismic Sequences.” *Journal of Geophysical Research: Solid Earth* 124, no. 5 (2019): 4673–93. https://doi.org/10.1029/2018JB016945.

Baker, Michael G., Richard C. Aster, Robert E. Anthony, Julien Chaput, Douglas A. Wiens, Andrew Nyblade, Peter D. Bromirski, Peter Gerstoft, and Ralph A. Stephen. “Seasonal and Spatial Variations in the Ocean-Coupled Ambient Wavefield of the Ross Ice Shelf.” *Journal of Glaciology* 65, no. 254 (December 2019): 912–25. https://doi.org/10.1017/jog.2019.64.

Ballu, Valérie, Médéric Gravelle, Guy Wöppelmann, Olivier de Viron, Paul Rebischung, Mélanie Becker, and Pierre Sakic. “Vertical Land Motion in the Southwest and Central Pacific from Available GNSS Solutions and Implications for Relative Sea Levels.” *Geophysical Journal International* 218, no. 3 (September 1, 2019): 1537–51. https://doi.org/10.1093/gji/ggz247.

Bollmann, Trevor A., Suzan van der Lee, Andrew W. Frederiksen, Emily Wolin, Justin Revenaugh, Douglas A. Wiens, Fiona A. Darbyshire, Seth Stein, Michael E. Wysession, and Donna Jurdy. "P Wave Teleseismic Traveltime Tomography of the North American Midcontinent." *Journal of Geophysical Research: Solid Earth* 124, no. 2 (2019): 1725–42. https://doi.org/10.1029/2018JB016627.

Bonini, L., R. Basili, P. Burrato, V. Cannelli, U. Fracassi, F. E. Maesano, D. Melini, et al. "Testing Different Tectonic Models for the Source of the Mw 6.5, 30 October 2016, Norcia Earthquake (Central Italy): A Youthful Normal Fault, or Negative Inversion of an Old Thrust?" *Tectonics* 38, no. 3 (2019): 990–1017. https://doi.org/10.1029/2018TC005185.

Boyce, Alistair, Ian D. Bastow, Eva M. Golos, Stéphane Rondenay, Scott Burdick, and Robert D. Van der Hilst. "Variable Modification of Continental Lithosphere during the Proterozoic Grenville Orogeny: Evidence from Teleseismic P-Wave Tomography." *Earth and Planetary Science Letters* 525 (November 1, 2019): 115763. https://doi.org/10.1016/j.epsl.2019.115763.

Braunmiller, Jochen, Glenn Thompson, and Stephen R. McNutt. "The January 2014 Northern Cuba Earthquake Sequence: Unusual Location and Unexpected Source Mechanism VariabilityThe January 2014 Northern Cuba Earthquake Sequence." *Bulletin of the Seismological Society of America* 109, no. 3 (June 1, 2019): 919–28. https://doi.org/10.1785/0120180272.

Bravo, Francisco, Pablo Koch, Sebastian Riquelme, Mauricio Fuentes, and Jaime Campos. "Slip Distribution of the 1985 Valparaíso Earthquake Constrained with Seismic and Deformation Data." *Seismological Research Letters* 90, no. 5 (September 1, 2019): 1792–1800. https://doi.org/10.1785/0220180396.

Brax, Marleine, Paola Albini, Céline Beauval, Rachid Jomaa, and Alexandre Sursock. "An Earthquake Catalog for the Lebanese Region." *Seismological Research Letters* 90, no. 6 (November 1, 2019): 2236–49. https://doi.org/10.1785/0220180292.

Burdick, Scott, Lauren Waszek, and Vedran Lekić. "Seismic Tomography of the Uppermost Inner Core." *Earth and Planetary Science Letters* 528 (December 15, 2019): 115789. https://doi.org/10.1016/j.epsl.2019.115789.

Butler, Rhett. "Composite Earthquake Source Mechanism for 2018 Mw 5.2–5.4 Swarm at Kīlauea Caldera: Antipodal Source Constraint." *Seismological Research Letters* 90, no. 2A (January 3, 2019): 633–41. https://doi.org/10.1785/0220180288.

———. "Seismic Precursors to a 2017 Nuugaatsiaq, Greenland, Earthquake–Landslide–Tsunami Event." *Natural Hazards* 96, no. 2 (March 1, 2019): 961–73. https://doi.org/10.1007/s11069-019-03582-8.

———. "Volcanic Earthquake Foreshocks during the 2018 Collapse of Kīlauea Caldera." *Geophysical Journal International* 220, no. 1 (2019): 71–78. https://doi.org/10.1093/gji/ggz425.

Cannata, Andrea, Flavio Cannavò, Salvatore Moschella, Stefano Gresta, and Laura Spina. "Exploring the Link between Microseism and Sea Ice in Antarctica by Using Machine Learning." *Scientific Reports (Nature)* 9, no. 1 (September 10, 2019): 13050. https://doi.org/10.1038/s41598-019-49586-z.

Carrasco, Sebastián, Javier A. Ruiz, Eduardo Contreras-Reyes, and Francisco Ortega-Culaciati. "Shallow Intraplate Seismicity Related to the Illapel 2015 Mw 8.4 Earthquake: Implications from the Seismic Source." *Tectonophysics* 766 (September 5, 2019): 205–18. https://doi.org/10.1016/j.tecto.2019.06.011.

Carvalho, Joana, Raffaele Bonadio, Graça Silveira, Sergei Lebedev, João Mata, Pierre Arroucau, Thomas Meier, and Nicolas L. Celli. “Evidence for High Temperature in the Upper Mantle beneath Cape Verde Archipelago from Rayleigh-Wave Phase-Velocity Measurements.” *Tectonophysics* 770 (November 5, 2019): 228225. https://doi.org/10.1016/j.tecto.2019.228225.

Chai, Chengping, Charles J. Ammon, and K. Michael Cleveland. “Aftershocks of the 2012 Off-Coast of Sumatra Earthquake Sequence.” *Tectonophysics* 763 (July 20, 2019): 61–72. https://doi.org/10.1016/j.tecto.2019.04.028.

Chang, Ta-Wei, and Satoshi Ide. “Empirical Relocation of Large Subduction-Zone Earthquakes via the Teleseismic Network Correlation Coefficient Method.” *Earth, Planets and Space* 71, no. 1 (July 19, 2019): 79. https://doi.org/10.1186/s40623-019-1057-z.

Chao, Kevin, Zhigang Peng, William B. Frank, Germán A. Prieto, and Kazushige Obara. “Isolated Triggered Tremor Spots in South America and Implications for Global Tremor Activity.” *Seismological Research Letters* 90, no. 5 (July 31, 2019): 1726–39. https://doi.org/10.1785/0220190009.

Chen, Kejie, Jonathan D. Smith, Jean-Philippe Avouac, Zhen Liu, Y. Tony Song, and Adriano Gualandi. “Triggering of the Mw 7.2 Hawaii Earthquake of 4 May 2018 by a Dike Intrusion.” *Geophysical Research Letters* 46, no. 5 (2019): 2503–10. https://doi.org/10.1029/2018GL081428.

Chen, Peng, and Aiming Lin. “Topographic Divides Formed by Active Flexural Folding in the NE Marginal Zone of the Tibetan Plateau.” *Geomorphology* 332 (May 1, 2019): 1–9. https://doi.org/10.1016/j.geomorph.2019.02.003.

Chen, Xuezhong, and Yane Li. “Relationship Between the Deceleration of Earth’s Rotation and Earthquakes That Occurred before the Ms 8.0 Wenchuan Earthquake.” *Pure and Applied Geophysics* 176, no. 12 (December 1, 2019): 5253–60. https://doi.org/10.1007/s00024-019-02273-6.

Chen, Yangkang, Mi Zhang, Min Bai, and Wei Chen. “Improving the Signal-to-Noise Ratio of Seismological Datasets by Unsupervised Machine Learning.” *Seismological Research Letters* 90, no. 4 (July 1, 2019): 1552–64. https://doi.org/10.1785/0220190028.

Chen, Yanyang, and Yanbin Wang. “Possible Site Effects Revealed by Regional Earthquake Records in the Qaidam Basin, China.” *Seismological Research Letters* 90, no. 1 (January 1, 2019): 280–93. https://doi.org/10.1785/0220180095.

Choudhury, Pallabee, Sumer Chopra, Charu Kamra, and Archana Das. “New Insight into the Recent Earthquake Activity in North Cambay Basin, Western India: Seismological and Geodetic PerspectivesNew Insight into the Recent Earthquake Activity in North Cambay Basin, Western India.” *Bulletin of the Seismological Society of America* 109, no. 6 (December 1, 2019): 2240–51. https://doi.org/10.1785/0120190126.

Chow, Bryant, Joachim Wassermann, Bernhard S. A. Schuberth, Céline Hadziioannou, Stefanie Donner, and Heiner Igel. “Love Wave Amplitude Decay from Rotational Ground Motions.” *Geophysical Journal International* 218, no. 2 (August 1, 2019): 1336–47. https://doi.org/10.1093/gji/ggz213.

Chu, RiSheng, LuPei Zhu, and ZhiFeng Ding. “Upper-Mantle Velocity Structures beneath the Tibetan Plateau and Surrounding Areas Inferred from Triplicated P Waveforms.” *Earth and Planetary Physics* 3, no. 5 (2019): 444–58. https://doi.org/10.26464/epp2019045.

Corti, Giacomo, Raffaello Cioni, Zara Franceschini, Federico Sani, Stéphane Scaillet, Paola Molin, Ilaria Isola, et al. “Aborted Propagation of the Ethiopian Rift Caused by Linkage with the Kenyan Rift.” *Nature Communications* 10, no. 1 (March 21, 2019): 1309. https://doi.org/10.1038/s41467-019-09335-2.

Cui, Qinghui, Yuanze Zhou, Wenlan Li, Rongqiang Wei, and Guohui Li. “Seismic Evidence for the 410 km Discontinuity beneath the Hindu Kush-Pamir Region from the SdP Converted Phases.” *Tectonophysics* 766 (September 5, 2019): 31–39. https://doi.org/10.1016/j.tecto.2019.06.001.

Cunningham, Erin, and Vedran Lekic. “Constraining Crustal Structure in the Presence of Sediment: A Multiple Converted Wave Approach.” *Geophysical Journal International* 219, no. 1 (October 1, 2019): 313–27. https://doi.org/10.1093/gji/ggz298.

Darzi, Atefe, Mohammad R. Zolfaghari, Carlo Cauzzi, and Donat Fäh. “An Empirical Ground-Motion Model for Horizontal PGV, PGA, and 5% Damped Elastic Response Spectra (0.01–10 s) in IranAn Empirical Ground-Motion Model.” *Bulletin of the Seismological Society of America* 109, no. 3 (June 1, 2019): 1041–57. https://doi.org/10.1785/0120180196.

Das, Ranjit, Mukat Lal Sharma, Hans Raj Wason, Deepankar Choudhury, and Gabriel Gonzalez. “A Seismic Moment Magnitude ScaleA Seismic Moment Magnitude Scale.” *Bulletin of the Seismological Society of America* 109, no. 4 (August 1, 2019): 1542–55. https://doi.org/10.1785/0120180338.

Derode, Benoit, Bertrand Delouis, and Jaime Campos. “Systematic Determination of Focal Mechanisms over a Wide Magnitude Range: Insights from the Real-Time FMNEAR Implementation in Chile from 2015 to 2017.” *Seismological Research Letters* 90, no. 3 (May 1, 2019): 1285–95. https://doi.org/10.1785/0220180322.

Dhabu, Anjali C., Sangeetha Sugumar, and S. T. G. Raghukanth. “Characterization of Strong Motion Generation Regions of Earthquake Slip Using Extreme Value Theory.” *Pure and Applied Geophysics* 176, no. 8 (August 1, 2019): 3567–92. https://doi.org/10.1007/s00024-019-02136-0.

Ding, Shiban, Sidao Ni, YoungHee Kim, and Xiaohui He. “Constraints on Crust-Mantle Transition Zone with Pn Waveforms: A Case Study of Eastern China and Southern Korean Peninsula.” *Physics of the Earth and Planetary Interiors* 289 (April 1, 2019): 11–19. https://doi.org/10.1016/j.pepi.2019.01.008.

Dubois, Frédéric, Sophie Lambotte, Christophe Zaroli, and Luis Rivera. “Global Finite-Frequency S-Wave Delay-Times: How Much Crust Matters.” *Geophysical Journal International* 218, no. 3 (September 1, 2019): 1665–84. https://doi.org/10.1093/gji/ggz222.

Dumka, Rakesh K., S. Chopra, and Sandip Prajapati. “GPS Derived Crustal Deformation Analysis of Kachchh, Zone of 2001(M7.7) Earthquake, Western India.” *Quaternary International*, Holocene Civilization, 507 (February 25, 2019): 295–301. https://doi.org/10.1016/j.quaint.2019.01.032.

Dumka, Rakesh K., B. S. Kotlia, D. SuriBabu, Pratishtha Narain, and Sandip Prajapati. “Present-Day Crustal Deformation and Geodetic Strain in the Vicinity of Dholavira - Harappan Civilization Site, Kachchh, Western Part of the Indian Plate.” *Quaternary International*, Holocene Civilization, 507 (February 25, 2019): 324–32. https://doi.org/10.1016/j.quaint.2018.10.035.

Dybing, Sydney N., Adam T. Ringler, David C. Wilson, and Robert E. Anthony. “Characteristics and Spatial Variability of Wind Noise on Near-Surface Broadband Seismometers.” *Bulletin of the Seismological Society of America* 109, no. 3 (March 19, 2019): 1082–98. https://doi.org/10.1785/0120180227.

Esmaeilzadeh, Amin, and Dariush Motazedian. “Sensitivity Analysis for Finite-Difference Seismic Basin Modeling: A Case Study for Kinburn Basin, Ottawa, CanadaSensitivity Analysis for Finite-Difference Seismic Basin Modeling: A Case Study for Kinburn Basin.” *Bulletin of the Seismological Society of America* 109, no. 6 (December 1, 2019): 2305–24. https://doi.org/10.1785/0120190029.

Esmaeilzadeh, Amin, Dariush Motazedian, and Jim Hunter. “3D Nonlinear Ground-Motion Simulation Using a Physics-Based Method for the Kinburn Basin3D Nonlinear Ground-Motion Simulation Using a Physics-Based Method for the Kinburn Basin.” *Bulletin of the Seismological Society of America* 109, no. 4 (August 1, 2019): 1282–1311. https://doi.org/10.1785/0120180201.

Fan, Wenyuan, Jeffrey J. McGuire, Catherine D. de Groot-Hedlin, Michael A. H. Hedlin, Sloan Coats, and Julia W. Fiedler. “Stormquakes.” *Geophysical Research Letters* 46, no. 22 (2019): 12909–18. https://doi.org/10.1029/2019GL084217.

Fang, Jin, Caijun Xu, Yangmao Wen, Shuai Wang, Guangyu Xu, Yingwen Zhao, and Lei Yi. “The 2018 Mw 7.5 Palu Earthquake: A Supershear Rupture Event Constrained by InSAR and Broadband Regional Seismograms.” *Remote Sensing* 11, no. 11 (January 2019): 1330. https://doi.org/10.3390/rs11111330.

Feng, Lili, and Michael H. Ritzwoller. “A 3-D Shear Velocity Model of the Crust and Uppermost Mantle Beneath Alaska Including Apparent Radial Anisotropy.” *Journal of Geophysical Research: Solid Earth* 124, no. 10 (2019): 10468–97. https://doi.org/10.1029/2019JB018122.

Ferreira, Ana M. G., Manuele Faccenda, William Sturgeon, Sung-Joon Chang, and Lewis Schardong. “Ubiquitous Lower-Mantle Anisotropy beneath Subduction Zones.” *Nature Geoscience* 12, no. 4 (April 2019): 301–6. https://doi.org/10.1038/s41561-019-0325-7.

Fontaine, F. R., G. Roult, B. Hejrani, L. Michon, V. Ferrazzini, G. Barruol, H. Tkalčić, et al. “Very- and Ultra-Long-Period Seismic Signals Prior to and during Caldera Formation on La Réunion Island.” *Scientific Reports (Nature)* 9, no. 1 (May 30, 2019): 8068. https://doi.org/10.1038/s41598-019-44439-1.

Frietsch, M., A. M. G. Ferreira, G. J. Funning, and J. Weston. “Multiple Fault Modelling Combining Seismic and Geodetic Data: The Importance of Simultaneous Subevent Inversions.” *Geophysical Journal International* 218, no. 2 (August 1, 2019): 958–76. https://doi.org/10.1093/gji/ggz205.

Frost, Daniel A., and Barbara Romanowicz. “On the Orientation of the Fast and Slow Directions of Anisotropy in the Deep Inner Core.” *Physics of the Earth and Planetary Interiors* 286 (January 1, 2019): 101–10. https://doi.org/10.1016/j.pepi.2018.11.006.

Fuchs, Florian, Felix M. Schneider, Petr Kolínský, Stefano Serafin, and Götz Bokelmann. “Rich Observations of Local and Regional Infrasound Phases Made by the AlpArray Seismic Network after Refinery Explosion.” *Scientific Reports (Nature)* 9, no. 1 (September 10, 2019): 13027. https://doi.org/10.1038/s41598-019-49494-2.

Furumura, T., and B. L. N. Kennett. “The Significance of Long-Period Ground Motion at Regional to Teleseismic Distances From the 610-Km Deep Mw 8.3 Sea of Okhotsk Earthquake of 24 May 2013.” *Journal of Geophysical Research: Solid Earth* 124, no. 8 (2019): 9075–94. https://doi.org/10.1029/2019JB018147.

Gaherty, J B, W Zheng, D J Shillington, M E Pritchard, S T Henderson, P R N Chindandali, H Mdala, et al. “Faulting Processes during Early-Stage Rifting: Seismic and Geodetic Analysis of the 2009–2010

Northern Malawi Earthquake Sequence." *Geophysical Journal International* 217, no. 3 (June 1, 2019): 1767–82. https://doi.org/10.1093/gji/ggz119.

Ganas, Athanassios, Panagiotis Elias, Vasilis Kapetanidis, Sotirios Valkaniotis, Pierre Briole, Ioannis Kassaras, Panagiotis Argyrakis, Aggeliki Barberopoulou, and Alexandra Moshou. "The July 20, 2017 M6.6 Kos Earthquake: Seismic and Geodetic Evidence for an Active North-Dipping Normal Fault at the Western End of the Gulf of Gökova (SE Aegean Sea)." *Pure and Applied Geophysics* 176, no. 10 (October 1, 2019): 4177–4211. https://doi.org/10.1007/s00024-019-02154-y.

Godfrey, Karen E, Colleen A Dalton, Zhitu Ma, Vala Hjörleifsdóttir, and Göran Ekström. "A Comparison of Approaches for the Prediction and Inversion of Surface Wave Phase Delays." *Geophysical Journal International* 217, no. 3 (June 1, 2019): 1496–1514. https://doi.org/10.1093/gji/ggz096.

Goldberg, D. E., D. Melgar, and Y. Bock. "Seismogeodetic P-Wave Amplitude: No Evidence for Strong Determinism." *Geophysical Research Letters* 46, no. 20 (2019): 11118–26. https://doi.org/10.1029/2019GL083624.

Gràcia, Eulàlia, Ingo Grevemeyer, Rafael Bartolomé, Hector Perea, Sara Martínez-Loriente, Laura Gómez de la Peña, Antonio Villaseñor, et al. "Earthquake Crisis Unveils the Growth of an Incipient Continental Fault System." *Nature Communications* 10, no. 1 (September 2, 2019): 3482. https://doi.org/10.1038/s41467-019-11064-5.

Guo, Rumeng, Yong Zheng, Jianqiao Xu, and Zhongshan Jiang. "Seismic and Aseismic Fault Slip Associated with the 2017 Mw 8.2 Chiapas, Mexico, Earthquake Sequence." *Seismological Research Letters* 90, no. 3 (May 1, 2019): 1111–20. https://doi.org/10.1785/0220180262.

Guo, Zelong, Yangmao Wen, Guangyu Xu, Shuai Wang, Xiaohang Wang, Yang Liu, and Caijun Xu. "Fault Slip Model of the 2018 Mw 6.6 Hokkaido Eastern Iburi, Japan, Earthquake Estimated from Satellite Radar and GPS Measurements." *Remote Sensing* 11, no. 14 (January 2019): 1667. https://doi.org/10.3390/rs11141667.

Han, Shuai, Haibing Li, Jiawei Pan, Haijian Lu, Yong Zheng, Dongliang Liu, and Chenglong Ge. "Co-Seismic Surface Ruptures in Qiangtang Terrane: Insight into Late Cenozoic Deformation of Central Tibet." *Tectonophysics* 750 (January 5, 2019): 359–78. https://doi.org/10.1016/j.tecto.2018.11.001.

Hawkins, Rhys, and Malcolm Sambridge. "An Adjoint Technique for Estimation of Interstation Phase and Group Dispersion from Ambient Noise Cross CorrelationsAn Adjoint Technique for Estimation of Interstation Phase and Group Dispersion." *Bulletin of the Seismological Society of America* 109, no. 5 (October 1, 2019): 1716–28. https://doi.org/10.1785/0120190060.

He, Chuanqi, Gang Rao, Rong Yang, Jianmin Hu, Qi Yao, and Ci-Jian Yang. "Divide Migration in Response to Asymmetric Uplift: Insights from the Wula Shan Horst, North China." *Geomorphology* 339 (August 15, 2019): 44–57. https://doi.org/10.1016/j.geomorph.2019.04.024.

Heidarzadeh, Mohammad, Abdul Muhari, and Antonius B. Wijanarto. "Insights on the Source of the 28 September 2018 Sulawesi Tsunami, Indonesia Based on Spectral Analyses and Numerical Simulations." *Pure and Applied Geophysics* 176, no. 1 (January 1, 2019): 25–43. https://doi.org/10.1007/s00024-018-2065-9.

Hibert, C., D. Michéa, F. Provost, J.-P. Malet, and M. Geertsema. "Exploration of Continuous Seismic Recordings with a Machine Learning Approach to Document 20 Yr of Landslide Activity in Alaska."

Geophysical Journal International 219, no. 2 (November 1, 2019): 1138–47. https://doi.org/10.1093/gji/ggz354.

Hirano, Shiro. "Modeling of Unilateral Rupture Along Very Long Reverse Faults." *Journal of Geophysical Research: Solid Earth* 124, no. 1 (2019): 1057–71. https://doi.org/10.1029/2018JB016511.

Hirose, Fuyuki, Kenji Maeda, and Osamu Kamigaichi. "Tidal Forcing of Interplate Earthquakes Along the Tonga-Kermadec Trench." *Journal of Geophysical Research: Solid Earth* 124, no. 10 (2019): 10498–521. https://doi.org/10.1029/2019JB018088.

Hosseini, Kasra, Karin Sigloch, Maria Tsekhmistrenko, Afsaneh Zaheri, Tarje Nissen-Meyer, and Heiner Igel. "Global Mantle Structure from Multifrequency Tomography Using P, PP and P-Diffracted Waves." *Geophysical Journal International* 220, no. 1 (2019): 96–141. https://doi.org/10.1093/gji/ggz394.

Howe, Bruce M., Brian K. Arbic, Jérome Aucan, Christopher R. Barnes, Nigel Bayliff, Nathan Becker, Rhett Butler, et al. "SMART Cables for Observing the Global Ocean: Science and Implementation." *Frontiers in Marine Science* 6 (2019). https://doi.org/10.3389/fmars.2019.00424.

Howe, Michael, Göran Ekström, and Meredith Nettles. "Improving Relative Earthquake Locations Using Surface-Wave Source Corrections." *Geophysical Journal International* 219, no. 1 (October 1, 2019): 297–312. https://doi.org/10.1093/gji/ggz291.

Huang, Taizi, and Huajian Yao. "Coseismic Radiation of the 2008 Mw 7.9 Wenchuan Earthquake and Its Relationship to Fault Complexities." *Pure and Applied Geophysics* 176, no. 3 (March 1, 2019): 1207–24. https://doi.org/10.1007/s00024-018-2050-3.

Huang, Yong, Xuejun Qiao, Jeffrey T. Freymueller, Qi Wang, Shaomin Yang, Kai Tan, and Bin Zhao. "Fault Geometry and Slip Distribution of the 2013 Mw 6.6 Lushan Earthquake in China Constrained by GPS, InSAR, Leveling, and Strong Motion Data." *Journal of Geophysical Research: Solid Earth* 124, no. 7 (2019): 7341–53. https://doi.org/10.1029/2019JB017451.

Huang, Zicheng, Guohong Zhang, Xinjian Shan, Wenyu Gong, Yingfeng Zhang, and Yanchuan Li. "Co-Seismic Deformation and Fault Slip Model of the 2017 Mw 7.3 Darbandikhan, Iran–Iraq Earthquake Inferred from D-InSAR Measurements." *Remote Sensing* 11, no. 21 (January 2019): 2521. https://doi.org/10.3390/rs11212521.

Ito, Chihiro, Hiroaki Takahashi, and Mako Ohzono. "Estimation of Convergence Boundary Location and Velocity between Tectonic Plates in Northern Hokkaido Inferred by GNSS Velocity Data." *Earth, Planets and Space* 71, no. 1 (August 2, 2019): 86. https://doi.org/10.1186/s40623-019-1065-z.

Jang, Hyoihn, YoungHee Kim, Hobin Lim, and Robert W. Clayton. "Seismic Attenuation Structure of Southern Peruvian Subduction System." *Tectonophysics* 771 (November 20, 2019): 228203. https://doi.org/10.1016/j.tecto.2019.228203.

Jian, Pei-Ru, Shu-Huei Hung, and Lingsen Meng. "Rupture Behavior and Interaction of the 2018 Hualien Earthquake Sequence and Its Tectonic Implication." *Seismological Research Letters* 90, no. 1 (January 1, 2019): 68–77. https://doi.org/10.1785/0220180241.

Jiao, Jiashuang, Yongzhi Zhang, Peng Yin, Kainan Zhang, Yipeng Wang, and Mirjam Bilker-Koivula. "Changing Moho Beneath the Tibetan Plateau Revealed by GRACE Observations." *Journal of*

Geophysical Research: Solid Earth 124, no. 6 (2019): 5907–23. https://doi.org/10.1029/2018JB016334.

Jin, P., H. F. Zhu, X. Xu, P. Z. Wang, X. Li, and X. F. Shen. "Seismic Spectral Ratios Between North Korean Nuclear Tests: Implications for Their Seismic Sources." *Journal of Geophysical Research: Solid Earth* 124, no. 5 (2019): 4940–58. https://doi.org/10.1029/2018JB016554.

Juhel, K., J.-P. Montagner, M. Vallée, J. P. Ampuero, M. Barsuglia, P. Bernard, E. Clévédé, J. Harms, and B. F. Whiting. "Normal Mode Simulation of Prompt Elastogravity Signals Induced by an Earthquake Rupture." *Geophysical Journal International* 216, no. 2 (February 1, 2019): 935–47. https://doi.org/10.1093/gji/ggy436.

Kanamori, Hiroo, Luis Rivera, and Sophie Lambotte. "Evidence for a Large Strike-Slip Component during the 1960 Chilean Earthquake." *Geophysical Journal International* 218, no. 1 (July 1, 2019): 1–32. https://doi.org/10.1093/gji/ggz113.

Kanamori, Hiroo, Luis Rivera, Lingling Ye, Thorne Lay, Satoko Murotani, and Kenshiro Tsumura. "New Constraints on the 1922 Atacama, Chile, Earthquake from Historical Seismograms." *Geophysical Journal International* 219, no. 1 (October 1, 2019): 645–61. https://doi.org/10.1093/gji/ggz302.

Kanamori, Hiroo, and Zachary E. Ross. "Reviving MB." *Geophysical Journal International* 216, no. 3 (March 1, 2019): 1798–1816. https://doi.org/10.1093/gji/ggy510.

Kang, Hyunsun, and YoungHee Kim. "Localized Anisotropic Subduction-Zone Structure in Southern Peru: Constraints from Teleseismic Receiver Functions and Forward Modeling." *Seismological Research Letters* 90, no. 5 (May 1, 2019): 1820–35. https://doi.org/10.1785/0220180384.

Kehoe, H. L., E. D. Kiser, and P. G. Okubo. "The Rupture Process of the 2018 Mw 6.9 Hawai'i Earthquake as Imaged by a Genetic Algorithm-Based Back-Projection Technique." *Geophysical Research Letters* 46, no. 5 (2019): 2467–74. https://doi.org/10.1029/2018GL080397.

Kemp, Matthew, Jennifer Jenkins, John Maclennan, and Sanne Cottaar. "X-Discontinuity and Transition Zone Structure beneath Hawaii Suggests a Heterogeneous Plume." *Earth and Planetary Science Letters* 527 (December 1, 2019): 115781. https://doi.org/10.1016/j.epsl.2019.115781.

Kim, D., and V. Lekic. "Groundwater Variations From Autocorrelation and Receiver Functions." *Geophysical Research Letters* 46, no. 23 (2019): 13722–29. https://doi.org/10.1029/2019GL084719.

Kim, So Gu, Yefim Gitterman, and Seoung-kyu Lee. "Depth Calculation for the January 06, 2016, the September 09, 2016 and the September 03, 2017 Nuclear Tests of North Korea from Detailed Depth Phases Using Regional and Teleseismic Arrays." *Pure and Applied Geophysics* 176, no. 1 (January 1, 2019): 133–46. https://doi.org/10.1007/s00024-018-1958-y.

Kintner, Jonas A, Christelle Wauthier, and Charles J Ammon. "InSAR and Seismic Analyses of the 2014–15 Earthquake Sequence near Bushkan, Iran: Shallow Faulting in the Core of an Anticline Fold." *Geophysical Journal International* 217, no. 2 (May 1, 2019): 1011–23. https://doi.org/10.1093/gji/ggz065.

Knapmeyer, Martin, Brigitte Knapmeyer-Endrun, Ana-Catalina Plesa, Maren Böse, Taichi Kawamura, John F. Clinton, Matt P. Golombek, et al. "Estimation of the Seismic Moment Rate from an Incomplete Seismicity Catalog, in the Context of the InSight Mission to MarsEstimation of the Seismic Moment

Rate from an Incomplete Seismicity Catalog." *Bulletin of the Seismological Society of America* 109, no. 3 (June 1, 2019): 1125–47. https://doi.org/10.1785/0120180258.

Köhler, Andreas, Michał Pętlicki, Pierre-Marie Lefeuvre, Giuseppa Buscaino, Christopher Nuth, and Christian Weidle. "Contribution of Calving to Frontal Ablation Quantified from Seismic and Hydroacoustic Observations Calibrated with Lidar Volume Measurements." *The Cryosphere* 13, no. 11 (November 26, 2019): 3117–37. https://doi.org/10.5194/tc-13-3117-2019.

Köhler, Andreas, and Christian Weidle. "Potentials and Pitfalls of Permafrost Active Layer Monitoring Using the HVSR Method: A Case Study in Svalbard." *Earth Surface Dynamics* 7, no. 1 (2019): 1–16. https://doi.org/10.5194/esurf-7-1-2019.

Krasnoshchekov, Dmitry, Vladimir Ovtchinnikov, and Valentin Polishchuk. "Dissimilarity of the Earth's Inner Core Surface Under South America and Northeastern Asia Revealed by Core Reflected Phases." *Journal of Geophysical Research: Solid Earth* 124, no. 5 (2019): 4862–78. https://doi.org/10.1029/2019JB017408.

Kubota, Tatsuya, Ryota Hino, Daisuke Inazu, and Syuichi Suzuki. "Fault Model of the 2012 Doublet Earthquake, near the up-Dip End of the 2011 Tohoku-Oki Earthquake, Based on a near-Field Tsunami: Implications for Intraplate Stress State." *Progress in Earth and Planetary Science* 6, no. 1 (December 26, 2019): 67. https://doi.org/10.1186/s40645-019-0313-y.

Kuo, Chun-Hsiang, Jyun-Yan Huang, Che-Min Lin, Ting-Yu Hsu, Shu-Hsien Chao, and Kuo-Liang Wen. "Strong Ground Motion and Pulse-Like Velocity Observations in the Near-Fault Region of the 2018 Mw 6.4 Hualien, Taiwan, Earthquake." *Seismological Research Letters* 90, no. 1 (January 1, 2019): 40–50. https://doi.org/10.1785/0220180195.

Kwong, Kevin B., Heather R. DeShon, Jin Woo Kim, and Zhong Lu. "Resolving Teleseismic Earthquake Catalog and InSAR Data Discrepancies in Absolute Space to Explore Rupture Complexity Along the Ecuadorian Megathrust Fault." *Journal of Geophysical Research: Solid Earth* 124, no. 7 (2019): 6703–19. https://doi.org/10.1029/2018JB016271.

Kwong, Kevin B., Heather R. DeShon, Joachim Saul, and Clifford H. Thurber. "Constraining the Oceanic Lithosphere Seismogenic Zone Using Teleseismic Relocations of the 2012 Wharton Basin Great Earthquake Sequence." *Journal of Geophysical Research: Solid Earth* 124, no. 11 (2019): 11938–50. https://doi.org/10.1029/2019JB017549.

Lai, Hongyu, Edward J. Garnero, Stephen P. Grand, Robert W. Porritt, and Thorsten W. Becker. "Global Travel Time Data Set From Adaptive Empirical Wavelet Construction." *Geochemistry, Geophysics, Geosystems* 20, no. 5 (2019): 2175–98. https://doi.org/10.1029/2018GC007905.

Lan, Xiaowen, Hao Xing, Jun Zhou, and John X. Zhao. "A Comparison of the Source, Path, and Site Effects of the Strong-Motion Records from the Western and the Southwestern Parts of China with Modern Ground-Motion Prediction EquationsA Comparison of the Source, Path, and Site Effects of the Strong-Motion Records." *Bulletin of the Seismological Society of America* 109, no. 6 (December 1, 2019): 2691–2709. https://doi.org/10.1785/0120180293.

Lay, Thorne, Chengli Liu, and Hiroo Kanamori. "Enhancing Tsunami Warning Using P Wave Coda." *Journal of Geophysical Research: Solid Earth* 124, no. 10 (October 1, 2019): 10583–609. https://doi.org/10.1029/2019JB018221.

Lay, Thorne, and Andrea Rhode. “Evaluating the Updip Extent of Large Megathrust Ruptures Using Pcoda Levels.” *Geophysical Research Letters* 46, no. 10 (2019): 5198–5206. https://doi.org/10.1029/2019GL082774.

Lee, Shiann-Jong, Tzu-Chi Lin, Ting-Yu Liu, and Tong-Pong Wong. “Fault-to-Fault Jumping Rupture of the 2018 Mw 6.4 Hualien Earthquake in Eastern Taiwan.” *Seismological Research Letters* 90, no. 1 (January 1, 2019): 30–39. https://doi.org/10.1785/0220180182.

Lee, Shiann-Jong, Tong-Pong Wong, Tzu-Chi Lin, and Ting-Yu Liu. “Complex Triggering Supershear Rupture of the 2018 Mw 7.5 Palu, Indonesia, Earthquake Determined from Teleseismic Source Inversion.” *Seismological Research Letters* 90, no. 6 (November 1, 2019): 2111–20. https://doi.org/10.1785/0220190111.

Leiva, Flavia, Francisco Ruiz, Gemma Acosta, Silvina Nacif, Silvana Spagnotto, Andres Nacif, Rodolfo Christiansen, Jorge Sisterna, and Mara Figueroa. “Geodetic Changes Associated with Crustal Deformation on the Andean Backarc of San Juan, Argentina.” *Pure and Applied Geophysics* 176, no. 2 (February 1, 2019): 611–25. https://doi.org/10.1007/s00024-018-2031-6.

Li, Guohui, Yunyue Elita Li, Heng Zhang, Ling Bai, Lin Ding, Wenlan Li, Qinghui Cui, and Yuanze Zhou. “Detection of a Thick and Weak Low-Velocity Layer atop the Mantle Transition Zone beneath the Northeastern South China Sea from Triplicated P-Wave Waveform ModelingDetection of a Thick and Weak LVL atop the Mantle Transition Zone beneath the South China Sea.” *Bulletin of the Seismological Society of America* 109, no. 4 (August 1, 2019): 1181–93. https://doi.org/10.1785/0120180318.

Li, Jiangtao, Xiaodong Song, Pan Wang, and Lupei Zhu. “A Generalized H-κ Method With Harmonic Corrections on Ps and Its Crustal Multiples in Receiver Functions.” *Journal of Geophysical Research: Solid Earth* 124, no. 4 (2019): 3782–3801. https://doi.org/10.1029/2018JB016356.

Li, Tao, Zhuxin Chen, Jie Chen, Jessica A. Thompson Jobe, Douglas W. Burbank, Zhigang Li, Xiaohui He, Wenjun Zheng, Peizhen Zhang, and Boxuan Zhang. “Along-Strike and Downdip Segmentation of the Pamir Frontal Thrust and Its Association With the 1985 Mw 6.9 Wuqia Earthquake.” *Journal of Geophysical Research: Solid Earth* 124, no. 9 (2019): 9890–9919. https://doi.org/10.1029/2019JB017319.

Li, Wei, Yun Chen, Feng Liu, Hongfeng Yang, Jianli Liu, and Bihong Fu. “Chain-Style Landslide Hazardous Process: Constraints From Seismic Signals Analysis of the 2017 Xinmo Landslide, SW China.” *Journal of Geophysical Research: Solid Earth* 124, no. 2 (2019): 2025–37. https://doi.org/10.1029/2018JB016433.

Li, Xianrui, Tobias Hergert, Andreas Henk, Dun Wang, and Zuoxun Zeng. “Subsurface Structure and Spatial Segmentation of the Longmen Shan Fault Zone at the Eastern Margin of Tibetan Plateau: Evidence from Focal Mechanism Solutions and Stress Field Inversion.” *Tectonophysics* 757 (April 20, 2019): 10–23. https://doi.org/10.1016/j.tecto.2019.03.006.

Li, Yuqiang, Dun Wang, Shenghui Xu, Lihua Fang, Yifang Cheng, Gang Luo, Bing Yan, Bogdan Enescu, and Jim Mori. “Thrust and Conjugate Strike-Slip Faults in the 17 June 2018 MJMA 6.1 (Mw 5.5) Osaka, Japan, Earthquake Sequence.” *Seismological Research Letters* 90, no. 6 (November 1, 2019): 2132–41. https://doi.org/10.1785/0220190122.

Lin, Xin, Risheng Chu, and Xiangfang Zeng. “Rupture Processes and Coulomb Stress Changes of the 2017 Mw 6.5 Jiuzhaigou and 2013 Mw 6.6 Lushan Earthquakes.” *Earth, Planets and Space* 71, no. 1 (July 30, 2019): 81. https://doi.org/10.1186/s40623-019-1061-3.

Linville, Lisa, Ronald Chip Brogan, Christopher Young, and Katherine Anderson Aur. “Global- and Local-Scale High-Resolution Event Catalogs for Algorithm Testing.” *Seismological Research Letters* 90, no. 5 (September 1, 2019): 1987–93. https://doi.org/10.1785/0220180345.

Liu, Chengli, Thorne Lay, Emily E. Brodsky, Kelian Dascher-Cousineau, and Xiong Xiong. “Coseismic Rupture Process of the Large 2019 Ridgecrest Earthquakes From Joint Inversion of Geodetic and Seismological Observations.” *Geophysical Research Letters* 46, no. 21 (2019): 11820–29. https://doi.org/10.1029/2019GL084949.

Liu, Chengli, Thorne Lay, Zujun Xie, and Xiong Xiong. “Intraslab Deformation in the 30 November 2018 Anchorage, Alaska, MW 7.1 Earthquake.” *Geophysical Research Letters* 46, no. 5 (2019): 2449–57. https://doi.org/10.1029/2019GL082041.

Liu, Gang, Wei Xiong, Qi Wang, Xuejun Qiao, Kaihua Ding, Xingxing Li, and ShaoMin Yang. “Source Characteristics of the 2017 Ms 7.0 Jiuzhaigou, China, Earthquake and Implications for Recent Seismicity in Eastern Tibet.” *Journal of Geophysical Research: Solid Earth* 124, no. 5 (2019): 4895–4915. https://doi.org/10.1029/2018JB016340.

Liu, Min, Hongyi Li, Zhigang Peng, Longbin Ouyang, Yuhu Ma, Jianxin Ma, Zhouji Liang, and Yafen Huang. “Spatial-Temporal Distribution of Early Aftershocks Following the 2016 Ms 6.4 Menyuan, Qinghai, China Earthquake.” *Tectonophysics* 766 (September 5, 2019): 469–79. https://doi.org/10.1016/j.tecto.2019.06.022.

Liu, Shujun, Chi-Chia Tang, Chieh-Hung Chen, and Rui Xu. “Spatiotemporal Evolution of the 2018 Mw 6.4 Hualien Earthquake Sequence in Eastern Taiwan.” *Seismological Research Letters* 90, no. 4 (July 1, 2019): 1446–56. https://doi.org/10.1785/0220180389.

Lo, Yi-Ching, Han Yue, Jianbao Sun, Li Zhao, and Mingjia Li. “The 2018 Mw6.4 Hualien Earthquake: Dynamic Slip Partitioning Reveals the Spatial Transition from Mountain Building to Subduction.” *Earth and Planetary Science Letters* 524 (October 15, 2019): 115729. https://doi.org/10.1016/j.epsl.2019.115729.

Lynner, Colton, Clinton Koch, Susan L. Beck, Anne Meltzer, Lillian Soto-Cordero, Mariah C. Hoskins, Josh C. Stachnik, et al. “Upper-Plate Structure in Ecuador Coincident with the Subduction of the Carnegie Ridge and the Southern Extent of Large Mega-Thrust Earthquakes.” *Geophysical Journal International* 220, no. 3 (2019): 1965–77. https://doi.org/10.1093/gji/ggz558.

Maestro, A., F. Bohoyo, and R. Corral. “Recent Deformational State from Morphological Analysis of Mud Volcanoes in the Gulf of Cadiz (Southwestern Part of the Iberian Atlantic Margin).” *Journal of Geodynamics* 132 (December 1, 2019): 101653. https://doi.org/10.1016/j.jog.2019.101653.

Majstorović, Josipa, Séverine Rosat, Sophie Lambotte, and Yves Rogister. “Testing Performances of the Optimal Sequence Estimation and Autoregressive Method in the Frequency Domain for Estimating Eigenfrequencies and Zonal Structure Coefficients of Low-Frequency Normal Modes.” *Geophysical Journal International* 216, no. 2 (February 1, 2019): 1157–76. https://doi.org/10.1093/gji/ggy483.

Materna, Kathryn, Shengji Wei, Xin Wang, Luo Heng, Teng Wang, Weiwen Chen, Rino Salman, and Roland Bürgmann. “Source Characteristics of the 2017 Mw6.4 Moijabana, Botswana Earthquake, a

Rare Lower-Crustal Event within an Ancient Zone of Weakness." *Earth and Planetary Science Letters* 506 (January 15, 2019): 348–59. https://doi.org/10.1016/j.epsl.2018.11.007.

Matsuzawa, H., and K. Yoshizawa. "Array-Based Analysis of Multimode Surface Waves: Application to Phase Speed Measurements and Modal Waveform Decomposition." *Geophysical Journal International* 218, no. 1 (July 1, 2019): 295–312. https://doi.org/10.1093/gji/ggz153.

McNab, Fergus, R. Alastair Sloan, and Richard T. Walker. "Simultaneous Orthogonal Shortening in the Afghan-Tajik Depression." *Geology* 47, no. 9 (September 1, 2019): 862–66. https://doi.org/10.1130/G46090.1.

McNamara, D. E., M. D. Petersen, E. M. Thompson, P. M. Powers, A. M. Shumway, S. M. Hoover, M. P. Moschetti, and E. Wolin. "Evaluation of Ground-Motion Models for USGS Seismic Hazard Forecasts: Induced and Tectonic Earthquakes in the Central and Eastern United StatesEvaluation of GMMs for USGS Seismic Hazard Forecasts." *Bulletin of the Seismological Society of America* 109, no. 1 (February 1, 2019): 322–35. https://doi.org/10.1785/0120180106.

Meltzer, Anne, Joshua C. Stachnik, Demberel Sodnomsambuu, Ulziibat Munkhuu, Baasanbat Tsagaan, Mungunsuren Dashdondog, and Raymond Russo. "The Central Mongolia Seismic Experiment: Multiple Applications of Temporary Broadband Seismic Arrays." *Seismological Research Letters* 90, no. 3 (April 10, 2019): 1364–76. https://doi.org/10.1785/0220180360.

Miura, Hiroyuki, Taisho Okamura, Masashi Matsuoka, Mario Leal, Helber García, and Nelson Pulido. "Empirical Models for Surface- and Body-Wave Amplifications of Response Spectra in the Bogotá Basin, ColombiaEmpirical Models for Surface- and Body-Wave Amplifications of Response Spectra in the Bogotá Basin." *Bulletin of the Seismological Society of America* 109, no. 3 (June 1, 2019): 987–1004. https://doi.org/10.1785/0120180154.

Momeni, S M, A Aoudia, M Tatar, C Twardzik, and R Madariaga. "Kinematics of the 2012 Ahar–Varzaghan Complex Earthquake Doublet (Mw6.5 and Mw6.3)." *Geophysical Journal International* 217, no. 3 (June 1, 2019): 2097–2124. https://doi.org/10.1093/gji/ggz100.

Moncayo, Gloria A., Gaspar Monsalve, and Jorge I. Zuluaga. "Tidal Coulomb Failure Stresses in the Northern Andean Intermediate Depth Seismic Clusters: Implications for a Possible Correlation between Tides and Seismicity." *Tectonophysics* 762 (July 5, 2019): 61–78. https://doi.org/10.1016/j.tecto.2019.04.015.

Moschetti, M. P., S. H. Hartzell, and R. B. Herrmann. "Rupture Model of the M5.8 Pawnee, Oklahoma, Earthquake From Regional and Teleseismic Waveforms." *Geophysical Research Letters* 46, no. 5 (2019): 2494–2502. https://doi.org/10.1029/2018GL081364.

Mueller, Charles S. "Earthquake Catalogs for the USGS National Seismic Hazard Maps." *Seismological Research Letters* 90, no. 1 (January 1, 2019): 251–61. https://doi.org/10.1785/0220170108.

Mukund, Nikhil, Michael Coughlin, Jan Harms, Sebastien Biscans, Jim Warner, Arnaud Pele, Keith Thorne, et al. "Ground Motion Prediction at Gravitational Wave Observatories Using Archival Seismic Data." *Classical and Quantum Gravity* 36, no. 8 (April 2019): 085005. https://doi.org/10.1088/1361-6382/ab0d2c.

Nakata, Kenji, Yutaka Hayashi, Hiroaki Tsushima, Kenichi Fujita, Yasuhiro Yoshida, and Akio Katsumata. "Performance of Uniform and Heterogeneous Slip Distributions for the Modeling of the November

2016 off Fukushima Earthquake and Tsunami, Japan." *Earth, Planets and Space* 71, no. 1 (March 11, 2019): 30. https://doi.org/10.1186/s40623-019-1010-1.

Nath, Sankar Kumar, Manik Das Adhikari, Soumya Kanti Maiti, and Chitralekha Ghatak. "Earthquake Hazard Potential of Indo-Gangetic Foredeep: Its Seismotectonism, Hazard, and Damage Modeling for the Cities of Patna, Lucknow, and Varanasi." *Journal of Seismology* 23, no. 4 (July 1, 2019): 725–69. https://doi.org/10.1007/s10950-019-09832-3.

Neely, J S, Y Huang, and W Fan. "Earthquake Rupture Characteristics along a Developing Transform Boundary." *Geophysical Journal International* 219, no. 2 (November 1, 2019): 1237–52. https://doi.org/10.1093/gji/ggz357.

Newrkla, Katharina, Hasbi Ash Shiddiqi, Annie Elisabeth Jerkins, Henk Keers, and Lars Ottemöller. "Implications of 3D Seismic Raytracing on Focal Mechanism DeterminationShort Note." *Bulletin of the Seismological Society of America* 109, no. 6 (December 1, 2019): 2746–54. https://doi.org/10.1785/0120190184.

Nishida, Kiwamu, Takuto Maeda, and Yoshio Fukao. "Seismic Observation of Tsunami at Island Broadband Stations." *Journal of Geophysical Research: Solid Earth* 124, no. 2 (2019): 1910–28. https://doi.org/10.1029/2018JB016833.

Nissen, Edwin, Abdolreza Ghods, Ezgi Karasözen, John R. Elliott, William D. Barnhart, Eric A. Bergman, Gavin P. Hayes, et al. "The 12 November 2017 Mw 7.3 Ezgeleh-Sarpolzahab (Iran) Earthquake and Active Tectonics of the Lurestan Arc." *Journal of Geophysical Research: Solid Earth* 124, no. 2 (2019): 2124–52. https://doi.org/10.1029/2018JB016221.

Nolet, Guust, Yann Hello, Suzan van der Lee, Sébastien Bonnieux, Mario C. Ruiz, Nelson A. Pazmino, Anne Deschamps, et al. "Imaging the Galápagos Mantle Plume with an Unconventional Application of Floating Seismometers." *Scientific Reports (Nature)* 9, no. 1 (February 4, 2019): 1326. https://doi.org/10.1038/s41598-018-36835-w.

Obana, Koichiro, Gou Fujie, Tsutomu Takahashi, Yojiro Yamamoto, Takashi Tonegawa, Seiichi Miura, and Shuichi Kodaira. "Seismic Velocity Structure and Its Implications for Oceanic Mantle Hydration in the Trench–Outer Rise of the Japan Trench." *Geophysical Journal International* 217, no. 3 (June 1, 2019): 1629–42. https://doi.org/10.1093/gji/ggz099.

O'Donnell, J. P., A. M. Brisbourne, G. W. Stuart, C. K. Dunham, Y. Yang, G. A. Nield, P. L. Whitehouse, et al. "Mapping Crustal Shear Wave Velocity Structure and Radial Anisotropy Beneath West Antarctica Using Seismic Ambient Noise." *Geochemistry, Geophysics, Geosystems* 20, no. 11 (2019): 5014–37. https://doi.org/10.1029/2019GC008459.

O'Donnell, J. P., G. W. Stuart, A. M. Brisbourne, K. Selway, Y. Yang, G. A. Nield, P. L. Whitehouse, et al. "The Uppermost Mantle Seismic Velocity Structure of West Antarctica from Rayleigh Wave Tomography: Insights into Tectonic Structure and Geothermal Heat Flow." *Earth and Planetary Science Letters* 522 (September 15, 2019): 219–33. https://doi.org/10.1016/j.epsl.2019.06.024.

Ogden, C. S., I. D. Bastow, A. Gilligan, and S. Rondenay. "A Reappraisal of the H–κ Stacking Technique: Implications for Global Crustal Structure." *Geophysical Journal International* 219, no. 3 (December 1, 2019): 1491–1513. https://doi.org/10.1093/gji/ggz364.

Ojo, Adebayo Oluwaseun, Li Zhao, and Xin Wang. “Estimations of Sensor Misorientation for Broadband Seismic Stations in and around Africa.” *Seismological Research Letters* 90, no. 6 (August 28, 2019): 2188–2204. https://doi.org/10.1785/0220190103.

Okuwaki, Ryo, Amato Kasahara, Yuji Yagi, Shiro Hirano, and Yukitoshi Fukahata. “Backprojection to Image Slip.” *Geophysical Journal International* 216, no. 3 (March 1, 2019): 1529–37. https://doi.org/10.1093/gji/ggy505.

Oliva, S. J., C. J. Ebinger, C. Wauthier, J. D. Muirhead, S. W. Roecker, E. Rivalta, and S. Heimann. “Insights Into Fault-Magma Interactions in an Early-Stage Continental Rift From Source Mechanisms and Correlated Volcano-Tectonic Earthquakes.” *Geophysical Research Letters* 46, no. 4 (2019): 2065–74. https://doi.org/10.1029/2018GL080866.

Olsen, Kira G., and Meredith Nettles. “Constraints on Terminus Dynamics at Greenland Glaciers From Small Glacial Earthquakes.” *Journal of Geophysical Research: Earth Surface* 124, no. 7 (2019): 1899–1918. https://doi.org/10.1029/2019JF005054.

Orecchio, Barbara, Silvia Scolaro, Josep Batlló, Graziano Ferrari, Debora Presti, and Daniel Stich. “A Reappraisal of the 1978 Ferruzzano Earthquake (Southern Italy) from New Estimates of Hypocenter Location and Moment Tensor Inversion.” *Physics of the Earth and Planetary Interiors* 289 (April 1, 2019): 34–44. https://doi.org/10.1016/j.pepi.2019.02.003.

Ortiz, Kameron, Andrew Nyblade, Mark van der Meijde, Hanneke Paulssen, Motsamai Kwadiba, Onkgopotse Ntibinyane, Raymond Durrheim, Islam Fadel, and Kyle Homman. “Upper Mantle P and S Wave Velocity Structure of the Kalahari Craton and Surrounding Proterozoic Terranes, Southern Africa.” *Geophysical Research Letters* 46, no. 16 (2019): 9509–18. https://doi.org/10.1029/2019GL084053.

Park, Jeffrey, and Danny M. Rye. “Why Is Crustal Underplating Beneath Many Hot Spot Islands Anisotropic?” *Geochemistry, Geophysics, Geosystems* 20, no. 11 (2019): 4779–4809. https://doi.org/10.1029/2019GC008492.

Petersen, Gesa Maria, Simone Cesca, Marius Kriegerowski, and the AlpArray Working Group. “Automated Quality Control for Large Seismic Networks: Implementation and Application to the AlpArray Seismic Network.” *Seismological Research Letters* 90, no. 3 (May 1, 2019): 1177–90. https://doi.org/10.1785/0220180342.

Petruccelli, A., D. Schorlemmer, T. Tormann, A. P. Rinaldi, S. Wiemer, P. Gasperini, and G. Vannucci. “The Influence of Faulting Style on the Size-Distribution of Global Earthquakes.” *Earth and Planetary Science Letters* 527 (December 1, 2019): 115791. https://doi.org/10.1016/j.epsl.2019.115791.

Picozzi, M, D Bindi, D Spallarossa, A Oth, D Di Giacomo, and A Zollo. “Moment and Energy Magnitudes: Diversity of Views on Earthquake Shaking Potential and Earthquake Statistics.” *Geophysical Journal International* 216, no. 2 (February 1, 2019): 1245–59. https://doi.org/10.1093/gji/ggy488.

Pisconti, Angelo, Christine Thomas, and James Wookey. “Discriminating Between Causes of D″ Anisotropy Using Reflections and Splitting Measurements for a Single Path.” *Journal of Geophysical Research: Solid Earth* 124, no. 5 (2019): 4811–30. https://doi.org/10.1029/2018JB016993.

Plata-Martínez, Raymundo, Xyoli Pérez-Campos, and Shri Krishna Singh. “Spatial Distribution of Radiated Seismic Energy of Three Aftershocks Sequences at Guerrero, Mexico, Subduction ZoneSpatial Distribution of Radiated Seismic Energy of Three Aftershocks Sequences.” *Bulletin of the*

Seismological Society of America 109, no. 6 (December 1, 2019): 2556–66. https://doi.org/10.1785/0120190104.

Plourde, Alexandre P, and Michael G Bostock. "Relative Moment Tensors and Deep Yakutat Seismicity." *Geophysical Journal International* 219, no. 2 (November 1, 2019): 1447–62. https://doi.org/10.1093/gji/ggz375.

Poulos, Alan, Mauricio Monsalve, Natalia Zamora, and Juan Carlos de la Llera. "An Updated Recurrence Model for Chilean Subduction Seismicity and Statistical Validation of Its Poisson NatureAn Updated Recurrence Model for Chilean Subduction Seismicity and Statistical Validation of Its Poisson Nature." *Bulletin of the Seismological Society of America* 109, no. 1 (February 1, 2019): 66–74. https://doi.org/10.1785/0120170160.

Pranantyo, Ignatius Ryan, and Phil R. Cummins. "Multi-Data-Type Source Estimation for the 1992 Flores Earthquake and Tsunami." *Pure and Applied Geophysics* 176, no. 7 (July 1, 2019): 2969–83. https://doi.org/10.1007/s00024-018-2078-4.

Qian, Yunyi, Xiaofei Chen, Heng Luo, Shengji Wei, Teng Wang, Zhenguo Zhang, and Xinyu Luo. "An Extremely Shallow Mw4.1 Thrust Earthquake in the Eastern Sichuan Basin (China) Likely Triggered by Unloading During Infrastructure Construction." *Geophysical Research Letters* 46, no. 23 (2019): 13775–84. https://doi.org/10.1029/2019GL085199.

Qian, Yunyi, Shengji Wei, Wenbo Wu, Hongyu Zeng, Aurélie Coudurier-Curveur, and Sidao Ni. "Teleseismic Waveform Complexities Caused by Near Trench Structures and Their Impacts on Earthquake Source Study: Application to the 2015 Illapel Aftershocks (Central Chile)." *Journal of Geophysical Research: Solid Earth* 124, no. 1 (2019): 870–89. https://doi.org/10.1029/2018JB016143.

Reiss, M. C., M. D. Long, and N. Creasy. "Lowermost Mantle Anisotropy Beneath Africa From Differential SKS-SKKS Shear-Wave Splitting." *Journal of Geophysical Research: Solid Earth* 124, no. 8 (2019): 8540–64. https://doi.org/10.1029/2018JB017160.

Riaz, Muhammad Shahid, Shan Bin, Shahid Naeem, Wang Kai, Zujun Xie, Syed Mushhad M. Gilani, and Umer Ashraf. "Over 100 Years of Faults Interaction, Stress Accumulation, and Creeping Implications, on Chaman Fault System, Pakistan." *International Journal of Earth Sciences* 108, no. 4 (June 1, 2019): 1351–59. https://doi.org/10.1007/s00531-019-01710-0.

Ringler, Adam T., David C. Wilson, Walter Zürn, and Robert E. Anthony. "Rayleigh Wave Ellipticity Measurement Uncertainty across the IRIS/USGS and New China Digital Seismograph Networks." *Geophysical Journal International* 217, no. 1 (April 1, 2019): 219–37. https://doi.org/10.1093/gji/ggy527.

Rivas, Carolina, Gustavo Ortiz, Patricia Alvarado, Marcos Podesta, and Adriana Martin. "Modern Crustal Seismicity in the Northern Andean Precordillera, Argentina." *Tectonophysics* 762 (July 5, 2019): 144–58. https://doi.org/10.1016/j.tecto.2019.04.019.

Rosenbaum, Gideon, Mike Sandiford, John Caulfield, and Jennifer M. Garrison. "A Trapdoor Mechanism for Slab Tearing and Melt Generation in the Northern Andes." *Geology* 47, no. 1 (January 1, 2019): 23–26. https://doi.org/10.1130/G45429.1.

Rowley, David B. "Oceanic Axial Depth and Age-Depth Distribution of Oceanic Lithosphere: Comparison of Magnetic Anomaly Picks versus Age-Grid Models." *Lithosphere* 11, no. 1 (December 12, 2018): 21–43. https://doi.org/10.1130/L1027.1.

Ruan, Youyi, Wenjie Lei, Ryan Modrak, Rıdvan Örsvuran, Ebru Bozdağ, and Jeroen Tromp. “Balancing Unevenly Distributed Data in Seismic Tomography: A Global Adjoint Tomography Example.” *Geophysical Journal International* 219, no. 2 (November 1, 2019): 1225–36. https://doi.org/10.1093/gji/ggz356.

Ruhl, Christine J., Diego Melgar, Jianghui Geng, Dara E. Goldberg, Brendan W. Crowell, Richard M. Allen, Yehuda Bock, et al. “A Global Database of Strong-Motion Displacement GNSS Recordings and an Example Application to PGD Scaling.” *Seismological Research Letters* 90, no. 1 (January 1, 2019): 271–79. https://doi.org/10.1785/0220180177.

Ruiz, Javier A., Andrei Maksymowicz, Francisco Ortega-Culaciati, Luis Rivera, and Diana Comte. “Source Characteristics of the March 16, 2014 Mw 6.7 Earthquake and Its Implications for the Mw 8.2 Pisagua Mainshock.” *Tectonophysics* 767 (September 20, 2019): 228170. https://doi.org/10.1016/j.tecto.2019.228170.

Ruiz, Sergio, Jean-Baptiste Ammirati, Felipe Leyton, Leoncio Cabrera, Bertrand Potin, and Raúl Madariaga. “The January 2019 (Mw 6.7) Coquimbo Earthquake: Insights from a Seismic Sequence within the Nazca Plate.” *Seismological Research Letters* 90, no. 5 (August 7, 2019): 1836–43. https://doi.org/10.1785/0220190079.

Sahakian, V. J., D. Melgar, and M. Muzli. “Weak Near-Field Behavior of a Tsunami Earthquake: Toward Real-Time Identification for Local Warning.” *Geophysical Research Letters* 46, no. 16 (2019): 9519–28. https://doi.org/10.1029/2019GL083989.

Saki, Morvarid, Christine Thomas, Laura Cobden, Rafael Abreu, and Johannes Buchen. “Causes for Polarity Reversals of PP Precursor Waves Reflecting off the 410 km Discontinuity beneath the Atlantic.” *Physics of the Earth and Planetary Interiors* 286 (January 1, 2019): 111–26. https://doi.org/10.1016/j.pepi.2018.11.007.

Savidge, Elena, Edwin Nissen, Majid Nemati, Ezgi Karasözen, James Hollingsworth, Morteza Talebian, Eric Bergman, et al. “The December 2017 Hojedk (Iran) Earthquake Triplet—Sequential Rupture of Shallow Reverse Faults in a Strike-Slip Restraining Bend.” *Geophysical Journal International* 217, no. 2 (May 1, 2019): 909–25. https://doi.org/10.1093/gji/ggz053.

Savvaidis, Alexandros, Bissett Young, Guo-chin Dino Huang, and Anthony Lomax. “TexNet: A Statewide Seismological Network in Texas.” *Seismological Research Letters* 90, no. 4 (June 5, 2019): 1702–15. https://doi.org/10.1785/0220180350.

Sawires, Rashad, Miguel A. Santoyo, José A. Peláez, and Raúl Daniel Corona Fernández. “An Updated and Unified Earthquake Catalog from 1787 to 2018 for Seismic Hazard Assessment Studies in Mexico.” *Scientific Data (Nature)* 6, no. 1 (October 29, 2019): 241. https://doi.org/10.1038/s41597-019-0234-z.

Schardong, Lewis, Ana M. G. Ferreira, Andrea Berbellini, and William Sturgeon. “The Anatomy of Uppermost Mantle Shear-Wave Speed Anomalies in the Western U.S. from Surface-Wave Amplification.” *Earth and Planetary Science Letters* 528 (December 15, 2019): 115822. https://doi.org/10.1016/j.epsl.2019.115822.

Schiffer, Christian, Tuna Eken, Stéphane Rondenay, and Tuncay Taymaz. “Localized Crustal Deformation along the Central North Anatolian Fault Zone Revealed by Joint Inversion of P-Receiver Functions and P-Wave Polarizations.” *Geophysical Journal International* 217, no. 1 (April 1, 2019): 682–702. https://doi.org/10.1093/gji/ggz040.

Schneider, F. M., X. Yuan, B. Schurr, J. Mechie, C. Sippl, S.-K. Kufner, L. Ratschbacher, et al. “The Crust in the Pamir: Insights From Receiver Functions.” *Journal of Geophysical Research: Solid Earth* 124, no. 8 (2019): 9313–31. https://doi.org/10.1029/2019JB017765.

Seredkina, Alena. “S-Wave Velocity Structure of the Upper Mantle beneath the Arctic Region from Rayleigh Wave Dispersion Data.” *Physics of the Earth and Planetary Interiors* 290 (May 1, 2019): 76–86. https://doi.org/10.1016/j.pepi.2019.03.007.

Sergeant, Amandine, Anne Mangeney, Vladislav A. Yastrebov, Fabian Walter, Jean-Paul Montagner, Olivier Castelnau, Eléonore Stutzmann, et al. “Monitoring Greenland Ice Sheet Buoyancy-Driven Calving Discharge Using Glacial Earthquakes.” *Annals of Glaciology* 60, no. 79 (September 2019): 75–95. https://doi.org/10.1017/aog.2019.7.

Shearer, Peter M., and Janine Buehler. “Imaging Upper-Mantle Structure Under USArray Using Long-Period Reflection Seismology.” *Journal of Geophysical Research: Solid Earth* 124, no. 9 (2019): 9638–52. https://doi.org/10.1029/2019JB017326.

Sheehan, Anne F., Aditya R. Gusman, and Kenji Satake. “Improving Forecast Accuracy With Tsunami Data Assimilation: The 2009 Dusky Sound, New Zealand, Tsunami.” *Journal of Geophysical Research: Solid Earth* 124, no. 1 (2019): 566–77. https://doi.org/10.1029/2018JB016575.

Shiddiqi, Hasbi Ash, Pa Pa Tun, and Lars Ottemöller. “Minimum 1D Velocity Model and Local Magnitude Scale for Myanmar.” *Seismological Research Letters* 90, no. 5 (September 1, 2019): 1923–36. https://doi.org/10.1785/0220190065.

Shirzad, Taghi. “Study of Fault Plane Using the Interferometry of Aftershocks: Case Study in the Rigan Area of SE Iran.” *Geophysical Journal International* 217, no. 1 (April 1, 2019): 190–205. https://doi.org/10.1093/gji/ggz015.

Sielfeld, Gerd, Dietrich Lange, and José Cembrano. “Intra-Arc Crustal Seismicity: Seismotectonic Implications for the Southern Andes Volcanic Zone, Chile.” *Tectonics* 38, no. 2 (2019): 552–78. https://doi.org/10.1029/2018TC004985.

Sielfeld, Gerd, Javiera Ruz, Andrea Brogi, José Cembrano, Ashley Stanton-Yonge, Pamela Pérez-Flores, and Pablo Iturrieta. “Oblique-Slip Tectonics in an Active Volcanic Chain: A Case Study from the Southern Andes.” *Tectonophysics* 770 (November 5, 2019): 228221. https://doi.org/10.1016/j.tecto.2019.228221.

Singha, Pabitra, Pawan Dewangan, K. A. Kamesh Raju, K. K. Aswini, and T. Ramakrushana Reddy. “Geometry of the Subducting Indian Plate and Local Seismicity in the Andaman Region from the Passive OBS ExperimentGeometry of the Subducting Indian Plate and Local Seismicity in the Andaman Region.” *Bulletin of the Seismological Society of America* 109, no. 2 (April 1, 2019): 797–811. https://doi.org/10.1785/0120180178.

Skelton, A., L. Liljedahl-Claesson, N. Wästeby, M. Andrén, G. Stockmann, E. Sturkell, C.-M. Mörth, et al. “Hydrochemical Changes Before and After Earthquakes Based on Long-Term Measurements of Multiple Parameters at Two Sites in Northern Iceland—A Review.” *Journal of Geophysical Research: Solid Earth* 124, no. 3 (2019): 2702–20. https://doi.org/10.1029/2018JB016757.

Smith, Kyle, and Carl Tape. “Seismic Noise in Central Alaska and Influences From Rivers, Wind, and Sedimentary Basins.” *Journal of Geophysical Research: Solid Earth* 124, no. 11 (2019): 11678–704. https://doi.org/10.1029/2019JB017695.

Song, Chen, Qiang Yao, and Dun Wang. “Magnitude of the 23 January 2018 M7.9 Alaska Earthquake Estimated from Local Dense Seismic Records in Alaska.” *Journal of Earth Science* 30, no. 5 (October 1, 2019): 1005–9. https://doi.org/10.1007/s12583-019-1215-z.

Song, Jie, and Katsuichiro Goda. “Influence of Elevation Data Resolution on Tsunami Loss Estimation and Insurance Rate-Making.” *Frontiers in Earth Science* 0 (2019). https://doi.org/10.3389/feart.2019.00246.

Soto, H., C. Sippl, B. Schurr, J. Kummerow, G. Asch, F. Tilmann, D. Comte, S. Ruiz, and O. Oncken. “Probing the Northern Chile Megathrust With Seismicity: The 2014 M8.1 Iquique Earthquake Sequence.” *Journal of Geophysical Research: Solid Earth* 124, no. 12 (2019): 12935–54. https://doi.org/10.1029/2019JB017794.

Sreejith, K. M., Ritesh Agrawal, and A. S. Rajawat. “Constraints on the Location, Depth and Yield of the 2017 September 3 North Korean Nuclear Test from InSAR Measurements and Modelling.” *Geophysical Journal International* 220, no. 1 (2019): 345–51. https://doi.org/10.1093/gji/ggz451.

Stiphout, A M van, S Cottaar, and A Deuss. “Receiver Function Mapping of Mantle Transition Zone Discontinuities beneath Alaska Using Scaled 3-D Velocity Corrections.” *Geophysical Journal International* 219, no. 2 (November 1, 2019): 1432–46. https://doi.org/10.1093/gji/ggz360.

Suárez, Gerardo, Gema V. Caballero-Jiménez, and David A. Novelo-Casanova. “Active Crustal Deformation in the Trans-Mexican Volcanic Belt as Evidenced by Historical Earthquakes During the Last 450 Years.” *Tectonics* 38, no. 10 (2019): 3544–62. https://doi.org/10.1029/2019TC005601.

Suárez, Gerardo, Miguel A. Santoyo, Vala Hjorleifsdottir, Arturo Iglesias, Carlos Villafuerte, and Victor M. Cruz-Atienza. “Large Scale Lithospheric Detachment of the Downgoing Cocos Plate: The 8 September 2017 Earthquake (Mw 8.2).” *Earth and Planetary Science Letters* 509 (March 1, 2019): 9–14. https://doi.org/10.1016/j.epsl.2018.12.018.

Suetsugu, Daisuke, Hajime Shiobara, Hiroko Sugioka, Aki Ito, Takehi Isse, Yasushi Ishihara, Satoru Tanaka, et al. “High QScS beneath the Ontong Java Plateau.” *Earth, Planets and Space* 71, no. 1 (September 6, 2019): 97. https://doi.org/10.1186/s40623-019-1077-8.

Sunilkumar, T. C., Anil Earnest, K. Silpa, and Ronia Andrews. “Rupture of the Indian Slab in the 2011 Mw 6.9 Sikkim Himalaya Earthquake and Its Tectonic Implications.” *Journal of Geophysical Research: Solid Earth* 124, no. 3 (2019): 2623–37. https://doi.org/10.1029/2018JB015931.

Tan, Fengzhou, Zengxi Ge, Honn Kao, and Edwin Nissen. “Validation of the 3-D Phase-Weighted Relative Back Projection Technique and Its Application to the 2016 Mw 7.8 Kaikōura Earthquake.” *Geophysical Journal International* 217, no. 1 (April 1, 2019): 375–88. https://doi.org/10.1093/gji/ggz032.

Tanaka, Sachiko, Takanori Matsuzawa, and Youichi Asano. “Shallow Low-Frequency Tremor in the Northern Japan Trench Subduction Zone.” *Geophysical Research Letters* 46, no. 10 (2019): 5217–24. https://doi.org/10.1029/2019GL082817.

Tanırcan, Gülüm, Hiroe Miyake, Hiroaki Yamanaka, and Oğuz Özel. “Large Stress Release During Normal-Faulting Earthquakes in Western Turkey Supported by Broadband Ground Motion Simulations.” *Pure and Applied Geophysics* 177, no. 5 (May 1, 2020): 1969–81. https://doi.org/10.1007/s00024-019-02357-3.

Thompson, D. A., N. Rawlinson, and H. Tkalčić. “Testing the Limits of Virtual Deep Seismic Sounding via New Crustal Thickness Estimates of the Australian Continent.” *Geophysical Journal International* 218, no. 2 (August 1, 2019): 787–800. https://doi.org/10.1093/gji/ggz191.

Thorne, Michael S., Nozomu Takeuchi, and Katsuhiko Shiomi. “Melting at the Edge of a Slab in the Deepest Mantle.” *Geophysical Research Letters* 46, no. 14 (2019): 8000–8008. https://doi.org/10.1029/2019GL082493.

Tsang, Louisa L. H., Mathilde Vergnolle, Cedric Twardzik, Anthony Sladen, Jean-Mathieu Nocquet, Frédérique Rolandone, Hans Agurto-Detzel, Olivier Cavalié, Paul Jarrin, and Patricia Mothes. “Imaging Rapid Early Afterslip of the 2016 Pedernales Earthquake, Ecuador.” *Earth and Planetary Science Letters* 524 (October 15, 2019): 115724. https://doi.org/10.1016/j.epsl.2019.115724.

Twardzik, Cedric, Mathilde Vergnolle, Anthony Sladen, and Antonio Avallone. “Unravelling the Contribution of Early Postseismic Deformation Using Sub-Daily GNSS Positioning.” *Scientific Reports (Nature)* 9, no. 1 (February 11, 2019): 1775. https://doi.org/10.1038/s41598-019-39038-z.

Vallée, Martin, Jean Paul Ampuero, Kévin Juhel, Pascal Bernard, Jean-Paul Montagner, and Matteo Barsuglia. “Comment on ‘Earthquake-Induced Prompt Gravity Signals Identified in Dense Array Data in Japan’ by Kimura et Al.” *Earth, Planets and Space* 71, no. 1 (April 29, 2019): 51. https://doi.org/10.1186/s40623-019-1030-x.

Vallée, Martin, and Kévin Juhel. “Multiple Observations of the Prompt Elastogravity Signals Heralding Direct Seismic Waves.” *Journal of Geophysical Research: Solid Earth* 124, no. 3 (2019): 2970–89. https://doi.org/10.1029/2018JB017130.

Vannucci, G., P. Gasperini, B. Lolli, and L. Gulia. “Fast Characterization of Sources of Recent Italian Earthquakes from Macroseismic Intensities.” *Tectonophysics* 750 (January 5, 2019): 70–92. https://doi.org/10.1016/j.tecto.2018.11.002.

Ventosa, Sergi, Martin Schimmel, and Eleonore Stutzmann. “Towards the Processing of Large Data Volumes with Phase Cross-Correlation.” *Seismological Research Letters* 90, no. 4 (May 1, 2019): 1663–69. https://doi.org/10.1785/0220190022.

Viti, Marcello. “Strain Diffusion from the 30 October 2016 Norcia (Central Italy) Earthquake.” *Tectonics* 38, no. 6 (2019): 1931–45. https://doi.org/10.1029/2018TC005464.

Viveros, José Antonio Bayona, Sebastian von Specht, Anne Strader, Sebastian Hainzl, Fabrice Cotton, and Danijel Schorlemmer. “A Regionalized Seismicity Model for Subduction Zones Based on Geodetic Strain Rates, Geomechanical Parameters, and Earthquake-Catalog DataA Regionalized Seismicity Model for Subduction Zones Based on Geodetic Strain Rates.” *Bulletin of the Seismological Society of America* 109, no. 5 (October 1, 2019): 2036–49. https://doi.org/10.1785/0120190034.

Vorobieva, Inessa, Alik Ismail-Zadeh, and Alexander Gorshkov. “Nonlinear Dynamics of Crustal Blocks and Faults and Earthquake Occurrences in the Transcaucasian Region.” *Physics of the Earth and Planetary Interiors* 297 (December 1, 2019): 106320. https://doi.org/10.1016/j.pepi.2019.106320.

Voytan, Dimitri P., Thorne Lay, Esteban J. Chaves, and John T. Ohman. “Yield Estimates for the Six North Korean Nuclear Tests From Teleseismic P Wave Modeling and Intercorrelation of P and Pn Recordings.” *Journal of Geophysical Research: Solid Earth* 124, no. 5 (2019): 4916–39. https://doi.org/10.1029/2019JB017418.

Wagner, Lara S., and Emile A. Okal. “The Pucallpa Nest and Its Constraints on the Geometry of the Peruvian Flat Slab.” *Tectonophysics* 762 (July 5, 2019): 97–108. https://doi.org/10.1016/j.tecto.2019.04.021.

Wang, Shuai, Caijun Xu, Wenbin Xu, Zhi Yin, Yangmao Wen, and Guoyan Jiang. “The 2017 Mw 6.6 Poso Earthquake: Implications for Extrusion Tectonics in Central Sulawesi.” *Seismological Research Letters* 90, no. 2A (March 1, 2019): 649–58. https://doi.org/10.1785/0220180211.

Wang, Xin, Shengji Wei, Yu Wang, Phyo Maung Maung, Judith Hubbard, Paramesh Banerjee, Bor-Shouh Huang, et al. “A 3-D Shear Wave Velocity Model for Myanmar Region.” *Journal of Geophysical Research: Solid Earth* 124, no. 1 (2019): 504–26. https://doi.org/10.1029/2018JB016622.

Wang, Yongzhe, Wanpeng Feng, Kun Chen, and Sergey Samsonov. “Source Characteristics of the 28 September 2018 Mw 7.4 Palu, Indonesia, Earthquake Derived from the Advanced Land Observation Satellite 2 Data.” *Remote Sensing* 11, no. 17 (January 2019): 1999. https://doi.org/10.3390/rs11171999.

Watkinson, Ian M., and Robert Hall. “Impact of Communal Irrigation on the 2018 Palu Earthquake-Triggered Landslides.” *Nature Geoscience* 12, no. 11 (November 2019): 940–45. https://doi.org/10.1038/s41561-019-0448-x.

Wen, Yangmao, Zelong Guo, Caijun Xu, Guangyu Xu, and Chuang Song. “Coseismic and Postseismic Deformation Associated with the 2018 Mw 7.9 Kodiak, Alaska, Earthquake from Low-Rate and High-Rate GPS ObservationsCoseismic and Postseismic Deformation Associated with the 2018 Mw 7.9 Kodiak, Alaska, Earthquake.” *Bulletin of the Seismological Society of America* 109, no. 3 (June 1, 2019): 908–18. https://doi.org/10.1785/0120180246.

White, Lloyd T., Nicholas Rawlinson, Gordon S. Lister, Felix Waldhauser, Babak Hejrani, David A. Thompson, Dominique Tanner, Colin G. Macpherson, Hrvoje Tkalčić, and Jason P. Morgan. “Earth’s Deepest Earthquake Swarms Track Fluid Ascent beneath Nascent Arc Volcanoes.” *Earth and Planetary Science Letters* 521 (September 1, 2019): 25–36. https://doi.org/10.1016/j.epsl.2019.05.048.

White-Gaynor, Austin L., Andrew A. Nyblade, Richard C. Aster, Douglas A. Wiens, Peter D. Bromirski, Peter Gerstoft, Ralph A. Stephen, et al. “Heterogeneous Upper Mantle Structure beneath the Ross Sea Embayment and Marie Byrd Land, West Antarctica, Revealed by P-Wave Tomography.” *Earth and Planetary Science Letters* 513 (May 1, 2019): 40–50. https://doi.org/10.1016/j.epsl.2019.02.013.

Wolf, Jonathan, Neala Creasy, Angelo Pisconti, Maureen D. Long, and Christine Thomas. “An Investigation of Seismic Anisotropy in the Lowermost Mantle beneath Iceland.” *Geophysical Journal International* 219, no. Supplement_1 (October 1, 2019): S152–66. https://doi.org/10.1093/gji/ggz312.

Wu, Chenglong, Xiaobo Tian, Tao Xu, Xiaofeng Liang, Yun Chen, Gaohua Zhu, José Badal, Zhiming Bai, Guiping Yu, and Jiwen Teng. “Upper-Crustal Anisotropy of the Conjugate Strike-Slip Fault Zone in Central Tibet Analyzed Using Local Earthquakes and Shear-Wave SplittingUpper-Crustal Anisotropy of the Conjugate Strike-Slip Fault Zone.” *Bulletin of the Seismological Society of America* 109, no. 5 (October 1, 2019): 1968–84. https://doi.org/10.1785/0120180333.

Wu, Hung-Yu, Chung-Han Chan, Kazuya Shiraishi, Adam Wspanialy, Takamitsu Sugihara, and Yoshinori Sanada. “Observed Stress State for the IODP Site C0002 and Implication to the Stress Field of the Nankai Trough Subduction Zone.” *Tectonophysics* 765 (August 20, 2019): 1–10. https://doi.org/10.1016/j.tecto.2019.04.017.

Wu, Wenbo, Sidao Ni, and Jessica C. E. Irving. “Inferring Earth’s Discontinuous Chemical Layering from the 660-Kilometer Boundary Topography.” *Science* 363, no. 6428 (February 15, 2019): 736–40. https://doi.org/10.1126/science.aav0822.

Yang, Chengsheng, Bingquan Han, Chaoying Zhao, Jiantao Du, Dongxiao Zhang, and Sainan Zhu. “Co- and Post-Seismic Deformation Mechanisms of the MW 7.3 Iran Earthquake (2017) Revealed by Sentinel-1 InSAR Observations.” *Remote Sensing* 11, no. 4 (January 2019): 418. https://doi.org/10.3390/rs11040418.

Yang, ZhiGao, and XiaoDong Song. “Ambient Noise Love Wave Tomography of China.” *Earth and Planetary Physics* 3, no. 3 (2019): 218–31. https://doi.org/10.26464/epp2019026.

Yao, Jiayuan, Dongdong Tian, Li Sun, and Lianxing Wen. “Temporal Change of Seismic Earth’s Inner Core Phases: Inner Core Differential Rotation or Temporal Change of Inner Core Surface?” *Journal of Geophysical Research: Solid Earth* 124, no. 7 (2019): 6720–36. https://doi.org/10.1029/2019JB017532.

Yao, Qiang, Dun Wang, Lihua Fang, and Jim Mori. “Rapid Estimation of Magnitudes of Large Damaging Earthquakes in and around Japan Using Dense Seismic Stations in ChinaRapid Estimation of Magnitudes of Large Damaging Earthquakes in and around Japan.” *Bulletin of the Seismological Society of America* 109, no. 6 (December 1, 2019): 2545–55. https://doi.org/10.1785/0120190107.

Yeck, William L., John M. Patton, Caryl E. Johnson, David Kragness, Harley M. Benz, Paul S. Earle, Michelle R. Guy, and Nicholas B. Ambruz. “GLASS3: A Standalone Multiscale Seismic Detection AssociatorGLASS3: A Standalone Multiscale Seismic Detection Associator.” *Bulletin of the Seismological Society of America* 109, no. 4 (August 1, 2019): 1469–78. https://doi.org/10.1785/0120180308.

Yin, Fengling, Changsheng Jiang, Ke Jia, Libo Han, and Huai Zhang. “A Study on Seismicity in the Yunnan Region by Using the Multidimensional Stress Release Model.” *Physics of the Earth and Planetary Interiors* 289 (April 1, 2019): 115–22. https://doi.org/10.1016/j.pepi.2019.01.007.

Yin, Jiuxun, and Marine A Denolle. “Relating Teleseismic Backprojection Images to Earthquake Kinematics.” *Geophysical Journal International* 217, no. 2 (May 1, 2019): 729–47. https://doi.org/10.1093/gji/ggz048.

Yolsal-Çevikbilen, Seda, and Tuncay Taymaz. “Source Characteristics of the 28 September 2018 Mw 7.5 Palu-Sulawesi, Indonesia (SE Asia) Earthquake Based on Inversion of Teleseismic Bodywaves.” *Pure and Applied Geophysics* 176, no. 10 (October 1, 2019): 4111–26. https://doi.org/10.1007/s00024-019-02294-1.

Yu, Chunquan, Egill Hauksson, Zhongwen Zhan, Elizabeth S. Cochran, and Donald V. Helmberger. “Depth Determination of the 2010 El Mayor-Cucapah Earthquake Sequence ($M \geq 4.0$).” *Journal of Geophysical Research: Solid Earth* 124, no. 7 (2019): 6801–14. https://doi.org/10.1029/2018JB016982.

Zang, Chong, Sidao Ni, and Zhichao Shen. “Rupture Directivity Analysis of the 2018 Hokkaido Eastern Iburi Earthquake and Its Seismotectonic Implication.” *Seismological Research Letters* 90, no. 6 (October 2, 2019): 2121–31. https://doi.org/10.1785/0220190131.

Zhang, BaoLong, SiDao Ni, and YuLin Chen. “Seismic Attenuation in the Lower Mantle beneath Northeast China Constrained from Short-Period Reflected Core Phases at Short Epicentral Distances.” *Earth and Planetary Physics* 3, no. 6 (2019): 537–46. https://doi.org/10.26464/epp2019055.

Zhang, Hao, and Michael R. Brudzinski. “Evidence for Rupture Through a Double Benioff Zone During the 2017 Mw 8.2 Chiapas, Mexico Earthquake.” *Geophysical Research Letters* 46, no. 2 (2019): 652–60. https://doi.org/10.1029/2018GL080009.

Zhang, Meng, Daoyuan Sun, Yi Wang, and Zhongqing Wu. “Fine Structure of the 660-Km Discontinuity Beneath Southeastern China.” *Geophysical Research Letters* 46, no. 13 (2019): 7304–14. https://doi.org/10.1029/2019GL082639.

Zhang, Yi-Peng, Wen-Jun Zheng, Dong-Li Zhang, Pei-Zhen Zhang, Dao-Yang Yuan, Qing-Ying Tian, Bo-Xuan Zhang, and Shu-Min Liang. “Late Pleistocene Left-Lateral Slip Rates of the Gulang Fault and Its Tectonic Implications in Eastern Qilian Shan (NE Tibetan Plateau), China.” *Tectonophysics* 756 (April 5, 2019): 97–111. https://doi.org/10.1016/j.tecto.2019.02.013.

Zhao, Bin, Yujie Qi, Dongzhen Wang, Jiansheng Yu, Qi Li, and Caihong Zhang. “Coseismic Slip Model of the 2018 Mw 7.9 Gulf of Alaska Earthquake and Its Seismic Hazard Implications.” *Seismological Research Letters* 90, no. 2A (March 1, 2019): 642–48. https://doi.org/10.1785/0220180141.

Zhao, Dezheng, Chunyan Qu, Xinjian Shan, Wenyu Gong, Guohong Zhang, and Xiaogang Song. “New Insights into the 2010 Yushu Mw6.9 Mainshock and Mw5.8 Aftershock, China, from InSAR Observations and Inversion.” *Journal of Geodynamics* 125 (April 1, 2019): 22–31. https://doi.org/10.1016/j.jog.2019.01.008.