

- Aa, E., Zou, S., Eastes, R., Karan, D. K., Zhang, S. R., Erickson, P. J., & Coster, A. J. (2020). Coordinated ground-based and space-based observations of equatorial plasma bubbles. *Journal of Geophysical Research: Space Physics*, 125(1), e2019JA027569.
- Abbaszadeh, M., Clarke, P. J., & Penna, N. T. (2020). Benefits of combining GPS and GLONASS for measuring ocean tide loading displacement. *Journal of Geodesy*, 94(7), 1-24.
- Abiriga, F., Amabayo, E. B., Jurua, E., & Cilliers, P. J. (2020). Statistical characterization of equatorial plasma bubbles over East Africa. *Journal of Atmospheric and Solar-Terrestrial Physics*, 200, 105197. doi:<https://doi.org/10.1016/j.jastp.2020.105197>
- Aden-Antoniow, F. S., C; Frank, WB; Aden-Antóniow, F; Bernard, P; Poiata, N; Aissaoui, E-M; Vilotte, J-P; Frank, W B. (2020). Statistical Analysis of the Preparatory Phase of the M w 8.1 Iquique Earthquake, Chile. *Journal of Geophysical Research*, 125(6).
- Agudelo, G., Wang, G., Liu, Y., Bao, Y., & Turco, M. J. (2020). GPS geodetic infrastructure for subsidence and fault monitoring in Houston, Texas, USA. *Proceedings of the International Association of Hydrological Sciences*, 382, 11-18.
- Akala, A., & Adewusi, E. (2020). Quiet-time and storm-time variations of the African equatorial and low latitude ionosphere during 2009–2015. *Advances in Space Research*, 66(6), 1441-1459.
- Akala, A., Oyeyemi, E., Amaechi, P., Radicella, S., Nava, B., & Amory-Mazaudier, C. (2020). Longitudinal responses of the equatorial/low-latitude ionosphere over the oceanic regions to geomagnetic storms of May and September 2017. *Journal of Geophysical Research: Space Physics*, 125(8), e2020JA027963.
- Alghamdi, A., Hesse, M. A., Chen, J., & Ghattas, O. (2020). Bayesian poroelastic aquifer characterization from InSAR surface deformation data. Part I: Maximum a posteriori estimate. *Water Resources Research*, 56(10), e2020WR027391.
- Alizadeh, M. M., Schuh, H., Zare, S., Sobhkhiz-Miandehi, S., & Tsai, L.-C. (2020). Remote sensing ionospheric variations due to total solar eclipse, using GNSS observations. *Geodesy and Geodynamics*, 11(3), 202-210.
- Altuntas, C. T., N. (2020). Estimation Performance of Soil Moisture with GPS-IR Method. *Journal of Engineering and Natural Sciences*, 38(4), 2217-2230.
- Amaechi, P. O., Oyeyemi, E. O., Akala, A., & Amory-Mazaudier, C. (2020). Geomagnetic activity control of irregularities occurrences over the crests of the African EIA. *Earth and Space Science*, 7(7), e2020EA001183.

- Amaechi, P. O., Oyeyemi, E. O., Akala, A. O., Falayi, E. O., Kaab, M., Benkhaldoun, Z., & Mazaudier, C.-A. (2020). Quiet time ionospheric irregularities over the African equatorial ionization anomaly region. *Radio Science*, 55(8), 1-16.
- Ammirati, J.-B., Flores, M. C., & Ruiz, S. (2020). Seismicity along the Magallanes-Fagnano fault system. *Journal of South American Earth Sciences*, 103, 102799.
- Ansari, K., Bae, T.-S., Jamjareegulgarn, P., Khan, S., & Lim, S.-H. (2020). Characterization of Ionospheric Scintillation Index over low latitude: Nepal Region.
- Ansari, K., Panda, S. K., & Jamjareegulgarn, P. (2020). Singular Spectrum Analysis of GPS derived Ionospheric TEC Variations over Nepal During the Low Solar Activity Period. *Acta Astronautica*. doi:<https://doi.org/10.1016/j.actaastro.2020.01.014>
- Argus, D. F., Ratliff, B., DeMets, C., Borsa, A. A., Wiese, D. N., Blewitt, G., . . . Landerer, F. W. (2020). Rise of Great Lakes surface water, sinking of the upper Midwest of the United States, and viscous collapse of the forebulge of the former Laurentide ice sheet. *Journal of Geophysical Research: Solid Earth*, 125(9), e2020JB019739. doi:<https://doi.org/10.1029/2020JB019739>
- Aziz, K. M. A. (2020). Analysis of Seasonal Variations in Coordinates for Some IGS Stations. *Journal of Al-Azhar University Engineering Sector*, 16(60), 526-537.
- Barbot, S. (2020). Mantle flow distribution beneath the California margin. *Nature communications*, 11(1), 1-14.
- Barcheck, C. G., Schwartz, S. Y., & Tulaczyk, S. (2020). Icequake streaks linked to potential mega-scale glacial lineations beneath an Antarctic ice stream. *Geology*, 48(2), 99-102.
- Bartlow, N. M. (2020). A Long-Term View of Episodic Tremor and Slip in Cascadia. *Geophysical Research Letters*, 47(3), e2019GL085303. doi:<https://doi.org/10.1029/2019GL085303>
- Beer, S., Wanninger, L., & Heßelbarth, A. (2020). Galileo and GLONASS group delay variations. *GPS solutions*, 24(1), 23.
- Biemiller, J., Boulton, C., Wallace, L., Ellis, S., Little, T., Mizera, M., . . . Lavier, L. (2020). Mechanical implications of creep and partial coupling on the world's fastest slipping low-angle normal fault in southeastern Papua New Guinea. *Journal of Geophysical Research: Solid Earth*, 125(10), e2020JB020117.
- Bilham, R., & Castillo, B. (2020). The July 2019 Ridgecrest, California, Earthquake Sequence Recorded by Creepmeters: Negligible Epicentral Afterslip and Prolonged Triggered Slip at Teleseismic Distances. *Seismological Research Letters*, 91(2A), 707-720.

Bletery, Q., & Nocquet, J.-M. (2020). Slip bursts during coalescence of slow slip events in Cascadia. *Nature communications*, 11(1), 1-6. doi:<https://doi.org/10.1038/s41467-020-15494-4>

Bolmgren, K., Mitchell, C., Bruno, J., & Bust, G. (2020). Tomographic imaging of traveling ionospheric disturbances using GNSS and geostationary satellite observations. *Journal of Geophysical Research: Space Physics*, 125(3), e2019JA027551.

Bolmgren, K., Mitchell, C., Pinto Jayawardena, T., Bust, G., Bruno, J., & Mitchell, E. (2020). Tomographic imaging of a large-scale travelling ionospheric disturbance during the Halloween storm of 2003. Paper presented at the *Annales Geophysicae*.

Bonnette, G. (2020). Characterizing Deformation Along an Early-Stage Rift: GPS Observations from the Northern Lake Malawi (Nyasa) Rift. Purdue University Graduate School,

Brooks, B. A., Murray, J., Svarc, J., Phillips, E., Turner, R., Murray, M., . . . Burgmann, R. (2020). Rapid Geodetic Observations of Spatiotemporally Varying Postseismic Deformation Following the Ridgecrest Earthquake Sequence: The US Geological Survey Response. *Seismological Research Letters*. doi:<https://doi.org/10.1785/0220200007>

Caldeira, M. C. O., Caldeira, C. R. T., Cereja, S. S. d. A., Alves, D. B. M., & Aguiar, C. R. d. (2020). EVALUATION OF THE GNSS POSITIONING PERFORMANCE UNDER INFLUENCE OF THE IONOSPHERIC SCINTILLATION. *Boletim de Ciências geodésicas*, 26.

Carlson, G., Shirzaei, M., Ojha, C., & Werth, S. (2020). Subsidence-derived volumetric strain models for mapping extensional fissures and constraining rock mechanical properties in the San Joaquin Valley, California. *Journal of Geophysical Research: Solid Earth*, 125(9), e2020JB019980.

Carlson, G., Shirzaei, M., Werth, S., Zhai, G., & Ojha, C. (2020). Seasonal and long-term groundwater unloading in the Central Valley modifies crustal stress. *Journal of Geophysical Research: Solid Earth*, 125(1), e2019JB018490.

Carvajal-Soto, L. A., Ito, T., Protti, M., & Kimura, H. (2020). Earthquake potential in Costa Rica using three scenarios for the Central Costa Rica deformed belt as western boundary of the Panama microplate. *Journal of South American Earth Sciences*, 97, 102375.

Chae, S.-H. (2020). Improvement of 2-pass DInSAR-based DEM Generation Method from TanDEM-X bistatic SAR Images. *Korean Journal of Remote Sensing*, 36(5_1), 847-860.

Chanard, K., Métois, M., Rebischung, P., & Avouac, J.-P. (2020). A warning against over-interpretation of seasonal signals measured by the Global Navigation Satellite System. *Nature communications*, 11(1), 1-4. doi:<https://doi.org/10.1038/s41467-020-15100-7>

Chekole, D. A., & Giday, N. M. (2020). Evaluation of ionospheric and solar proxy indices for IRI-Plas 2017 model over the East African equatorial region during solar cycle 24. *Advances in Space Research*. doi:<https://doi.org/10.1016/j.asr.2020.04.029>

Chen, K., Avouac, J.-P., Aati, S., Milliner, C., Zheng, F., & Shi, C. (2020). Cascading and pulse-like ruptures during the 2019 Ridgecrest earthquakes in the Eastern California Shear Zone. *Nature communications*, 11(1), 1-8.

Chen, Z., Cui, Y., Li, L., Zhang, Q., Lu, Z., Li, X., . . . Rong, F. (2020). GDP: an open-source GNSS data preprocessing toolkit. *GPS solutions*, 24(3), 1-11.

Cipar, J. H., Garber, J. M., Kylander-Clark, A. R., & Smye, A. J. (2020). Active crustal differentiation beneath the Rio Grande Rift. *Nature Geoscience*, 13(11), 758-763.

Civiero, C., Custódio, S., Duarte, J. C., Mendes, V. B., & Faccenna, C. (2020). Dynamics of the Gibraltar arc system: a complex interaction between plate convergence, slab pull, and mantle flow. *Journal of Geophysical Research: Solid Earth*, 125(7), e2019JB018873.

Crowell, B. W., & Melgar, D. (2020). Slipping the Shumagin Gap: A kinematic coseismic and early afterslip model of the Mw 7.8 Simeonof Island, Alaska, earthquake. *Geophysical Research Letters*, 47(19), e2020GL090308. doi:10.1029/2020GL090308

Dardanelli, G., LaBrutto, M., & Pipitone, C. (2020). GNSS CORS Network of the University of Palermo: Design and First Analysis of Data. *Geographia Technica*, 15(1), 43-69. doi:DOI: 10.21163/GT_2020.151.05

Delbridge, B. G., Carmichael, J. D., Nadeau, R. M., Shelly, D. R., & Bürgmann, R. (2020). Geodetic measurements of slow-slip events Southeast of Parkfield, CA. *Journal of Geophysical Research: Solid Earth*, 125(5), e2019JB019059. doi:<https://doi.org/10.1029/2019JB019059>

Døssing, A., Riishuus, M. S., Mac Niocaill, C., Muxworthy, A. R., & Maclennan, J. (2020). Late Miocene to late Pleistocene geomagnetic secular variation at high northern latitudes. *Geophysical Journal International*, 222(1), 86-102.

Dumka, R. K., SuriBabu, D., Malik, K., Prajapati, S., & Narain, P. (2020). PS-InSAR derived deformation study in the Kachchh, Western India. *Applied Computing and Geosciences*, 8, 100041.

Elliott, J., & Freymueller, J. T. (2020). A block model of present-day kinematics of Alaska and western Canada. *Journal of Geophysical Research: Solid Earth*, 125(7), e2019JB018378.

Esparza, A. A., J; Schilling, M. (2020). High Precision Measurements of Absolute Gravity in Mexico: the Jalisco Block Changes in Gravity Triggered by Distant Earthquakes *Geofísica internacional*, 59(3), 155-168.

Evans, S. G., Godsey, S. E., Rushlow, C. R., & Voss, C. (2020). Water tracks enhance water flow above permafrost in upland Arctic Alaska hillslopes. *Journal of Geophysical Research: Earth Surface*, 125(2), e2019JF005256.

Fæhn Follestad, A., Clausen, L. B. N., Miloch, W. J., van den Ijssel, J., & Haagmans, R. (2020). Two-Dimensional Reconstruction of Ionospheric Plasma Density Variations Using Swarm. *Space Weather*, 18(6), e2019SW002406.

Fang, J., Xu, C., Zang, J., Wen, Y., Song, C., & Li, Y. (2020). Application of high-rate GPS for earthquake rapid response and modeling: A case in the 2019 Mw 7.1 Ridgecrest earthquake. *Geophysical Journal International*. doi:<https://doi-org.proxy2.library.illinois.edu/10.1093/gji/ggaa272>

Farghal, N., Barbour, A., & Langbein, J. (2020). The potential of using dynamic strains in earthquake early warning applications. *Seismological Research Letters*, 91(5), 2817-2827.
Farquharson, J. I., & Amelung, F. (2020). Extreme rainfall triggered the 2018 rift eruption at Kīlauea Volcano. *Nature*, 580(7804), 491-495.

Fayne, J. V., Smith, L. C., Pitcher, L. H., Kyzivat, E. D., Cooley, S. W., Cooper, M. G., . . . Pavelsky, T. M. (2020). Airborne observations of arctic-boreal water surface elevations from AirSWOT Ka-Band InSAR and LVIS LiDAR. *Environmental Research Letters*, 15(10), 105005.

Fielding, E. J., Liu, Z., Stephenson, O. L., Zhong, M., Liang, C., Moore, A., . . . Simons, M. (2020). Surface Deformation Related to the 2019 M w 7.1 and 6.4 Ridgecrest Earthquakes in California from GPS, SAR Interferometry, and SAR Pixel Offsets. *Seismological Research Letters*.

Floyd, M., Funning, G., Fialko, Y., Terry, R., & Herring, T. (2020). Survey and continuous GNSS in the vicinity of the July 2019 Ridgecrest earthquakes. *Seismological Research Letters*.

Galas, R., Kunzi, F., Adolfs, M., Overbeck, M., & Felber, W. (2020). Initial analysis of the tracking performance of the GOOSE GNSS Software-Defined Receiver. *Zeszyty Naukowe Akademii Morskiej w Szczecinie*.

Ghimire, B., Chapagain, N., Basnet, V., Bhatta, K., & Khadka, B. (2020). Variation of GPS-Tec Measurements of the Year 2014: A Comparative Study with IRI-2016 Model. *Journal of Nepal Physical Society*, 6(1), 90-96.

Ghimire, B. D., Chapagain, N. P., Basnet, V., Bhatta, K., & Khadka, B. (2020). Variation of Total Electron Content (TEC) in the Quiet and Disturbed days and their correlation with Geomagnetic Parameters of Lamjung Station in the year of 2015. *BIBICHANA*, 17, 123-132.

Ghorbani, F., Abdi, A., Sahraei, A., Fallahzadeh, M., Aliakbarian, H., & Radiom, S. (2020). Beam switchable radiosonde receiver antennas. *AEU-International Journal of Electronics and Communications*, 127, 153442.

Głębicki, D. (2020). Ground surface deformation monitoring of an active volcano using the DInSAR technique in comparison with GPS data: Case study of Okmok Volcano, Alaska. Paper presented at the AIP Conference Proceedings.

Godah, W., Szelachowska, M., Ray, J. D., & Krynski, J. (2020). COMPARISON OF VERTICAL DEFORMATIONS OF THE EARTH'S SURFACE OBTAINED USING GRACE-BASED GGMS AND GNSS DATA—A CASE STUDY OF SOUTH-EASTERN POLAND. *Acta Geodyn. Geomater*, 17, 169-176.

Goldberg, D. E., Melgar, D., Sahakian, V., Thomas, A., Xu, X., Crowell, B., & Geng, J. (2020). Complex rupture of an immature fault zone: A simultaneous kinematic model of the 2019 Ridgecrest, CA earthquakes. *Geophysical Research Letters*, 47(3), e2019GL086382. doi:10.1029/2019GL086382

Goncharenko, L. P., Harvey, V. L., Greer, K. R., Zhang, S. R., & Coster, A. J. (2020). Longitudinally dependent low-latitude ionospheric disturbances linked to the Antarctic sudden stratospheric warming of September 2019. *Journal of Geophysical Research: Space Physics*, 125(8), e2020JA028199.

Goodwin, L., Nishimura, Y., Coster, A., Zhang, S., Nishitani, N., Ruohoniemi, J., . . . Zhang, Q. H. (2020). Dayside polar cap density enhancements formed during substorms. *Journal of Geophysical Research: Space Physics*, 125(10), e2020JA028101.

Gosselin, J. M., Audet, P., Estève, C., McLellan, M., Mosher, S. G., & Schaeffer, A. J. (2020). Seismic evidence for megathrust fault-valve behavior during episodic tremor and slip. *Science advances*, 6(4), eaay5174. doi:10.1126/sciadv.aay5174

Gottsmann, J., Flynn, M., & Hickey, J. (2020). The transcrustal magma reservoir beneath Soufrière Hills Volcano, Montserrat: Insights from 3-D geodetic inversions. *Geophysical Research Letters*, 47(20), e2020GL089239.

Guan, L., Hu, J., Pan, H., Wu, W., Sun, Q., Chen, S., & Fan, H. (2020). Fusion of public DEMs based on sparse representation and adaptive regularization variation model. *ISPRS Journal of Photogrammetry and Remote Sensing*, 169, 125-134.

Guns, K., & Bennett, R. (2020). Assessing long-term postseismic transients from GPS time series in Southern California. *Journal of Geophysical Research: Solid Earth*, 125(4), e2019JB018670. doi:<https://doi.org/10.1029/2019JB018670>

Guo, R., Zheng, Y., An, C., Xu, J., Jiang, Z., Zhang, L., . . . Wen, Y. (2020). The 2018 Mw 7.9 offshore Kodiak, Alaska, earthquake: An unusual outer rise strike-slip earthquake. *Journal of Geophysical Research: Solid Earth*, e2019JB019267. doi:<https://doi.org/10.1029/2019JB019267>

Habarulema, J. B., Katamzi-Joseph, Z. T., Burešová, D., Nndanganeni, R., Matamba, T., Tshisaphungo, M., . . . Cilliers, P. (2020). Ionospheric response at conjugate locations during the 7–8 September 2017 geomagnetic storm over the Europe-African longitude sector. *Journal of Geophysical Research: Space Physics*, 125(10), e2020JA028307.

Habyarimana, V., Habarulema, J. B., & Mungufeni, P. (2020). On the possible contribution of ionospheric vertical drifts to TEC modelling in low latitudes. *Advances in Space Research*, 65(10), 2391-2404.

Haji-Aghajany, S., Amerian, Y., & Verhagen, S. (2020). B-spline function-based approach for GPS tropospheric tomography. *GPS solutions*, 24(3), 1-12.

Haji-Aghajany, S., Amerian, Y., Verhagen, S., Rohm, W., & Ma, H. (2020). An optimal troposphere tomography technique using the WRF model outputs and topography of the area. *Remote Sensing*, 12(9), 1442.

Hammond, W. C., Blewitt, G., Kreemer, C., Koehler, R. D., & Dee, S. (2020). Geodetic Observation of Seismic Cycles before, during, and after the 2020 Monte Cristo Range, Nevada Earthquake. *Seismological Research Letters*. doi:[10.1785/0220200338](https://doi.org/10.1785/0220200338).

Hauksson, E., Yoon, C., Yu, E., Andrews, J. R., Alvarez, M., Bhadha, R., & Thomas, V. (2020). Caltech/USGS Southern California Seismic Network (SCSN) and Southern California Earthquake Data Center (SCEDC): Data availability for the 2019 Ridgecrest sequence. *Seismological Research Letters*. doi:<https://doi.org/10.1785/0220190290>

Helmboldt, J. (2020). The properties and origins of corotating plasmaspheric irregularities: Part II—Tomography with compact arrays of GPS receivers. *Journal of Geophysical Research: Space Physics*, 125(6), e2020JA027858.

Helmboldt, J. (2020). Observations of the electrodynamical ties between sporadic E and the plasmasphere. *Earth and Space Science*, 7(11), e2020EA001369.

Henriquet, M., Dominguez, S., Barreca, G., Malavieille, J., & Monaco, C. (2020). Structural and tectono-stratigraphic review of the Sicilian orogen and new insights from analogue modeling. *Earth-Science Reviews*, 103257.

Hernandez, J. A. C., Lazecký, M., Šebesta, J., & Bakoň, M. (2020). Relation between surface dynamics and remote sensor InSAR results over the Metropolitan Area of San Salvador. *Natural hazards*, 103(3), 3661-3682.

Hickey, D. A., & Martinis, C. R. (2020). All-Sky Imaging Observations of the Interaction Between the Brightness Wave and ESF Airglow Depletions. *Journal of Geophysical Research: Space Physics*, 125(5), e2019JA027232.

Hodgkinson, K. M., Mencin, D. J., Feaux, K., Sievers, C., & Mattioli, G. S. (2020). Evaluation of Earthquake Magnitude Estimation and Event Detection Thresholds for Real-Time GNSS Networks: Examples from Recent Events Captured by the Network of the Americas. *Seismological Research Letters*, 91(3), 1628-1645. doi:<https://doi.org/10.1785/0220190269>

Hoffman, A. O., Christianson, K., Shapero, D., Smith, B. E., & Joughin, I. (2020). Brief communication: Heterogenous thinning and subglacial lake activity on Thwaites Glacier, West Antarctica. *The Cryosphere*, 14(12), 4603-4609.

Hong, J., Kim, J. H., Chung, J. K., Kim, Y. H., Kam, H., Park, J., & Mendillo, M. (2020). Simultaneous observations of SAR arc and its ionospheric response at sub-auroral conjugate points ($L \approx 2.5$) during the St. Patrick's Day storm in 2015. *Journal of Geophysical Research: Space Physics*, e2019JA027321. doi: <https://doi.org/10.1029/2019JA027321>

Hudnut, K. W., Brooks, B. A., Scharer, K., Hernandez, J. L., Dawson, T. E., Oskin, M. E., . . . Boggs, M. L. (2020). Airborne lidar and electro-optical imagery along surface ruptures of the 2019 Ridgecrest earthquake sequence, southern California. *Seismological Research Letters*. doi:<https://doi.org/10.1785/0220190338>

Ikubanni, S., Adebisi, S., Adebisi, B., Bolaji, O., Adekoya, B., Joshua, B., & Adeniyi, J. (2020). Plasma re-distribution in the African low-latitude ionosphere during intense geomagnetic storms. *Journal of the Nigerian Society of Physical Sciences*, 228-240.

Inchin, P., Snively, J., Zettergren, M., Komjathy, A., Verkhoglyadova, O., & Tulasi Ram, S. (2020). Modeling of ionospheric responses to atmospheric acoustic and gravity waves driven by the 2015 Nepal 7.8 Gorkha earthquake. *Journal of Geophysical Research: Space Physics*, 125(4), e2019JA027200.

Ingleby, T., Wright, T., Hooper, A., Craig, T., & Elliott, J. (2020). Constraints on the geometry and frictional properties of the Main Himalayan Thrust using coseismic, postseismic, and interseismic deformation in Nepal. *Journal of Geophysical Research: Solid Earth*, 125(2), e2019JB019201.

Jamjareegulgarn, P., Ansari, K., & Ameer, A. (2020). Empirical orthogonal function modelling of total electron content over Nepal and comparison with global ionospheric models. *Acta*

Astronautica, 177, 497-507.

Jia, Z., Wang, X., & Zhan, Z. (2020). Multifault models of the 2019 Ridgecrest sequence highlight complementary slip and fault junction instability. *Geophysical Research Letters*, 47(17), e2020GL089802.

Jin, Z., & Fialko, Y. (2020). Finite slip models of the 2019 Ridgecrest earthquake sequence constrained by space geodetic data and aftershock locations. *Bulletin of the Seismological Society of America*, 110(4), 1660-1679.

Jonah, O., Goncharenko, L., Erickson, P., Zhang, S., Coster, A., Chau, J., . . . Rideout, W. (2020). Anomalous behavior of the equatorial ionization anomaly during the 2 July 2019 solar eclipse. *Journal of Geophysical Research: Space Physics*, 125(9), e2020JA027909.

Jouanne, F., Munawar, N., Mugnier, J. L., Ahmed, A., Awan, A. A., Bascou, P., & Vassallo, R. (2020). Seismic coupling quantified on inferred décollements beneath the western syntaxis of the Himalaya. *Tectonics*, 39(9), e2020TC006122.

Kakoti, G., Kalita, B. R., Bhuyan, P., Baruah, S., & Wang, K. (2020). Longitudinal and Interhemispheric Ionospheric Response to 2009 and 2013 SSW Events in the African-European and Indian-East Asian Sectors. *Journal of Geophysical Research: Space Physics*, 125(11), e2020JA028570.

Karki, M., Silwal, A., Chapagain, N. P., Poudel, P., Gautam, S. P., Mishra, R. K., . . . Orue, Y. O. M. (2020). GPS Observations of Ionospheric TEC Variations during 2015 Mw 7.8 Nepal Earthquake. *Earth and Space Science Open Archive ESSOAr*.

Kazachkina, E., Kostoglodov, V., Cotte, N., Walpersdorf, A., Ramirez-Herrera, M. T., Gaidzik, K., . . . Santiago, J. A. (2020). Active 650-km long fault system and Xolapa sliver in Southern Mexico. *Frontiers in Earth Science*, 8, 155.

Khalsa, S. J. S., Borsa, A., Nandigam, V., Phan, M., Lin, K., Crosby, C., . . . Lopez, L. (2020). OpenAltimetry-rapid analysis and visualization of Spaceborne altimeter data. *Earth Science Informatics*, 1-10. doi:<https://doi.org/10.1007/s12145-020-00520-2>

Khoda, O. (2020). The second reprocessing campaign of historical observations in the GNSS data analysis centre of MAO NAS of Ukraine. *Kinematics and Physics of Celestial Bodies*, 36(5), 243-252.

Kiyani, A., Shah, M., Ahmed, A., Shah, H. H., Hameed, S., Adil, M. A., & Naqvi, N. A. (2020). Seismo ionospheric anomalies possibly associated with the 2018 Mw 8.2 Fiji earthquake detected with GNSS TEC. *Journal of Geodynamics*, 140, 101782.

Kluesner, J. W., Brothers, D. S., Wright, A. L., & Johnson, S. Y. (2020). Structural Controls on Slope Failure Within the Western Santa Barbara Channel Based on 2-D and 3-D Seismic Imaging. *Geochemistry, Geophysics, Geosystems*, 21(8), e2020GC009055.

Knappe, E., Bendick, R., Ebinger, C., Birhanu, Y., Lewi, E., Floyd, M., . . . Temtime, T. (2020). Accommodation of east African Rifting across the Turkana depression. *Journal of Geophysical Research: Solid Earth*, 125(2), e2019JB018469.

Kravitz, K., Mueller, K., Bilham, R. G., & Walton, M. (2020). Active steady-state creep on a nontectonic normal fault in southeast Utah: Implications for strain release in a rapidly deforming salt system. *Geophysical Research Letters*, e2020GL087081.
doi:<https://doi.org/10.1029/2020GL087081>

Kreager, B. Z., & LaDue, N. D. (2020). Seeing like a geologist: How expertise and context impact frame of reference judgments. *GSA TODAY*, 30(5).

Langbein, J. (2020). Methods for Rapidly Estimating Velocity Precision from GNSS Time Series in the Presence of Temporal Correlation: A New Method and Comparison of Existing Methods. *Journal of Geophysical Research: Solid Earth*, 125(7), e2019JB019132.

Larson, K. M., MacFerrin, M., & Nylén, T. (2020). Brief Communication: Update on the GPS reflection technique for measuring snow accumulation in Greenland. *The Cryosphere*, 14(6), 1985-1988. doi:doi.org/10.5194/tc-14-1985-2020

Lau, N., Borsa, A. A., & Becker, T. W. (2020). Present-day crustal vertical velocity field for the contiguous United States. *Journal of Geophysical Research: Solid Earth*, 125(10), e2020JB020066.

Lazos, I., Chatzipetros, A., Pavlides, S., Pikridas, C., & Bitharis, S. (2020). TECTONIC CRUSTAL DEFORMATION OF CORINTH GULF, GREECE, BASED ON PRIMARY GEODETIC DATA. *Acta Geodynamica et Geomaterialia*, 17(4), 413-425.

Lazos, I., Pikridas, C., Chatzipetros, A., & Pavlides, S. (2020). Determination of local active tectonics regime in central and northern Greece, using primary geodetic data. *Applied Geomatics*, 1-15. doi:<https://doi.org/10.1007/s12518-020-00310-x>

Lee, J. O., Kim, D. P., & Sung, S. M. (2020). Assessment of LODs and Positional Accuracy for 3D Model based on UAV Images. *Journal of the Korea Academia-Industrial cooperation Society*, 21(10), 197-205.

Lewis, S. W., Chow, C. E., Geremia-Nievinski, F., Akos, D. M., & Lo, S. (2020). GNSS interferometric reflectometry signature-based defense. *NAVIGATION, Journal of the Institute of Navigation*, 67(4), 727-743.

Li, C., Zhang, G., Shan, X., Zhao, D., Li, Y., Huang, Z., . . . Nie, J. (2020). Surface Rupture Kinematics and Coseismic Slip Distribution during the 2019 Mw7. 1 Ridgecrest, California Earthquake Sequence Revealed by SAR and Optical Images. *Remote Sensing*, 12(23), 3883.

Li, S., Chen, G., Tao, T., He, P., Ding, K., Zou, R., . . . Wang, Q. (2020). The 2019 M w 6.4 and M w 7.1 Ridgecrest earthquake sequence in Eastern California: rupture on a conjugate fault structure revealed by GPS and InSAR measurements. *Geophysical Journal International*, 221(3), 1651-1666. doi:10.1093/gji/ggaa099

Li, S., Tao, T., Gao, F., Qu, X., Zhu, Y., Huang, J., & Wang, Q. (2020). Interseismic Coupling beneath the Sikkim–Bhutan Himalaya Constrained by GPS Measurements and Its Implication for Strain Segmentation and Seismic Activity. *Remote Sensing*, 12(14), 2202.

Li, W., Zhao, D., Shen, Y., & Zhang, K. (2020). Modeling Australian TEC maps using long-term observations of Australian regional GPS network by artificial neural network-aided spherical cap harmonic analysis approach. *Remote Sensing*, 12(23), 3851.

Li, Y., Shan, X., Zhu, C., Qiao, X., Zhao, L., & Qu, C. (2020). Geodetic Model of the 2018 M w 7.2 Pinotepa, Mexico, Earthquake Inferred from InSAR and GPS Data. *Bulletin of the Seismological Society of America*. doi:<https://doi.org/10.1785/0120190101>

Liu, C., Lay, T., Wang, Z., & Xiong, X. (2020). Rupture process of the 7 January 2020, MW 6.4 Puerto Rico earthquake. *Geophysical Research Letters*, 47(12), e2020GL087718. doi:<https://doi.org/10.1029/2020GL087718>

Liu, J., Wu, J., Wang, W., Fang, L., & Chang, K. (2020). Seismic anisotropy beneath the eastern margin of the Tibetan Plateau from SKS splitting observations. *Tectonophysics*, 228430. doi:<https://doi.org/10.1016/j.tecto.2020.228430>

Liu-Zeng, J., Zhang, Z., Rollins, C., Gualandi, A., Avouac, J. P., Shi, H., . . . Zhang, P. (2020). Postseismic deformation following the 2015 Mw7. 8 Gorkha (Nepal) earthquake: new GPS data, kinematic and dynamic models, and the roles of afterslip and viscoelastic relaxation. *Journal of Geophysical Research: Solid Earth*, 125(9), e2020JB019852.

Lu, G., Zakharenkova, I., Cherniak, I., & Dang, T. (2020). Large-scale ionospheric disturbances during the 17 March 2015 storm: A model-data comparative study. *Journal of Geophysical Research: Space Physics*, 125(5), e2019JA027726.

Lu, Z., Li, C.-F., Zhu, S., & Audet, P. (2020). Effective elastic thickness over the Chinese mainland and surroundings estimated from a joint inversion of Bouguer admittance and coherence. *Physics of the Earth and Planetary Interiors*, 106456. doi:<https://doi.org/10.1016/j.pepi.2020.106456>

Luo, Y., Yao, Y., & Shan, L. (2020). Analysis of Ionospheric Disturbances Caused by the 2018 Bering Sea Meteor Explosion Based on GPS Observations. *Sensors*, 20(11), 3201.

Männel, B., Brandt, A., Bradke, M., Sakic, P., Brack, A., & Nischan, T. (2020). Status of IGS reprocessing activities at GFZ. 1-7.

Martens, H. R., Argus, D. F., Norberg, C., Blewitt, G., Herring, T. A., Moore, A. W., . . . Kreemer, C. (2020). Atmospheric pressure loading in GPS positions: dependency on GPS processing methods and effect on assessment of seasonal deformation in the contiguous USA and Alaska. *Journal of Geodesy*, 94(12), 1-22.

Martens, H. R., & Simons, M. (2020). A comparison of predicted and observed ocean tidal loading in Alaska. *Geophysical Journal International*, 223(1), 454-470.

Mattioli, G. S., Phillips, D. A., Hodgkinson, K. M., Walls, C., Mencin, D. J., Bartel, B. A., . . . Henderson, B. (2020). The GAGE data and field response to the 2019 Ridgecrest earthquake sequence. *Seismological Research Letters*.

Mayaki, A. O., Santos, M., & Nikolaidou, T. (2020). Least-Squares Spectral and Coherency Analysis of the Zenith Total Delay Time Series at SuomiNet Station SA56 (UNB2).

McKenzie, K., Furlong, K., & Herman, M. (2020). Bidirectional loading of the subduction interface: evidence from the kinematics of slow slip events. *Geochemistry, Geophysics, Geosystems*, 21(9), e2020GC008918.

McLellan, M., & Audet, P. (2020). Uncovering the physical controls of deep subduction zone slow slip using supervised classification of subducting plate features. *Geophysical Journal International*, 223(1), 94-110.

Melbourne, T. I., Szeliga, W. M., Santillan, V. M., & Scrivner, C. W. (2020). 25-Second Determination of 2019 Mw 7.1 Ridgecrest Earthquake Coseismic Deformation. *Bulletin of the Seismological Society of America*. doi:<https://doi.org/10.1785/0120200084>

Melgar, D., Crowell, B. W., Melbourne, T. I., Szeliga, W., Santillan, M., & Scrivner, C. (2020). Noise characteristics of operational real-time high-rate GNSS positions in a large aperture network. *Journal of Geophysical Research: Solid Earth*, 125(7), e2019JB019197. doi:<https://doi.org/10.1029/2019JB019197>

Melgarejo-Morales, A., Vazquez-Becerra, G. E., Millan-Almaraz, J., Pérez-Enríquez, R., Martínez-Félix, C. A., & Gaxiola-Camacho, J. R. (2020). Examination of seismo-ionospheric anomalies before earthquakes of $M_w \geq 5.1$ for the period 2008–2015 in Oaxaca, Mexico using GPS-TEC. *Acta Geophysica*, 68(5), 1229-1244.

Meng, H., McGuire, J. J., & Ben-Zion, Y. (2020). Semiautomated estimates of directivity and related source properties of small to moderate Southern California earthquakes using second seismic moments. *Journal of Geophysical Research: Solid Earth*, 125(4), e2019JB018566.

Menke, W., & Russell, J. B. (2020). Non-Double-Couple Components of the Moment Tensor in a Transversely Isotropic Medium. *Bulletin of the Seismological Society of America*. doi:<https://doi.org/10.1785/0120190319>

Meshili, V. A., & Kwon, J. H. (2020). Crustal Movement at Ol Doinyo Lengai based on GPS Measurements. *Journal of the Korean Society of Surveying, Geodesy, Photogrammetry and Cartography*, 38(5), 401-406.

Mikhailov, V., Timoshkina, E., Smirnov, V., Khairtdinov, S., & Dmitriev, P. (2020). On the Origin of Postseismic Deformation Processes in the Region of the Maule, Chile Earthquake of February 27, 2010. *Izvestiya, Physics of the Solid Earth*, 56(6), 762-771.

Mondal, P., & Long, M. D. (2020). Strong seismic anisotropy in the deep upper mantle beneath the Cascadia backarc: Constraints from probabilistic finite-frequency SKS splitting intensity tomography. *Earth and Planetary Science Letters*, 539, 116172.

Montgomery, L., Miège, C., Miller, J., Scambos, T. A., Wallin, B., Miller, O., . . . Koenig, L. (2020). Hydrologic properties of a highly permeable firn aquifer in the Wilkins Ice Shelf, Antarctica. *Geophysical Research Letters*, 47(22), e2020GL089552.

Montillet, J.-P., Bos, M. S., Melbourne, T. I., Williams, S. D., Fernandes, R. M., & Szeliga, W. M. (2020). Estimation of the Vertical Land Motion from GNSS Time Series and Application in Quantifying Sea-Level Rise. In *Geodetic Time Series Analysis in Earth Sciences* (pp. 317-344): Springer.

Mora-Páez, H., Kellogg, J., & Freymueller, J. (2020). Contributions of space geodesy.

Mrak, S., Semeter, J., Nishimura, Y., & Coster, A. J. (2020). Extreme low-latitude TEC enhancement and GPS Scintillation at dawn. *Space Weather*, e2021SW002740.

Mrak, S., Semeter, J., Nishimura, Y., Rodrigues, F. S., Coster, A. J., & Groves, K. (2020). Leveraging geodetic GPS receivers for ionospheric scintillation science. *Radio Science*, 55(11), 1-17.

Musumeci, C., Scarfi, L., Tusa, G., Barreca, G., Barberi, G., Cannavò, F., & Gresta, S. (2020). Foreland seismicity associated with strike-slip faulting in southeastern Sicily, Italy: seismotectonic implications and seismic hazard assessment. *Physics of the Earth and Planetary Interiors*, 307, 106553.

Negale, M., Holmes, J., Parris, R., Ober, D., Dao, E., Kelly, R., . . . Pedersen, T. (2020). Using data assimilation to reconstruct high-latitude polar cap patches. *Radio Science*, 55(6), 1-15.

Nishimura, Y., Lyons, L., Gabrielse, C., Sivadas, N., Donovan, E., Varney, R., . . . Zhang, S. (2020). Extreme magnetosphere-ionosphere-thermosphere responses to the 5 April 2010 supersubstorm. *Journal of Geophysical Research: Space Physics*, 125(4), e2019JA027654.

Niu, Y. (2020). On the cause of continental breakup: A simple analysis in terms of driving mechanisms of plate tectonics and mantle plumes. *Journal of Asian Earth Sciences*, 194, 104367.

Niu, Y. (2020). What drives the continued India-Asia convergence since the collision at 55 Ma? *Science bulletin.*, 65(3), 169-172.

Okoh, D., Habarulema, J. B., Rabiou, B., Seemala, G., Wisdom, J. B., Olwendo, J., . . . Matamba, T. M. (2020). Storm-Time Modeling of the African Regional Ionospheric Total Electron Content Using Artificial Neural Networks. *Space Weather*, 18(9), e2020SW002525.

Oyedokun, O., Akala, A., & Oyeyemi, E. (2020). Characterization of African Equatorial Ionization Anomaly During the Maximum Phase of Solar Cycle 24. *Journal of Geophysical Research: Space Physics*, 125(9), e2019JA027066.

Palano, M., Pezzo, G., Serpelloni, E., Devoti, R., D'Agostino, N., Gandolfi, S., . . . Tavasci, L. (2020). Geopositioning time series from offshore platforms in the Adriatic Sea. *Scientific data*, 7(1), 1-16.

Pan, Y., Geng, J., Liu, K., Chen, X., & Fang, R. (2020). Evaluation of rapid phase clock/bias products for PPP ambiguity resolution and its application to the M7. 1 2019 Ridgecrest, California earthquake. *Advances in Space Research*, 65(11), 2586-2594.

Pandit, D., Ghimire, B., Amory-Mazaudier, C., Fleury, R., Chapagain, N. P., & Adhikari, B. (2020). Climatology of ionosphere over Nepal based on GPS TEC data from 2008 to 2018. *Annales Geophysicae Discussions*, 1-43.

Patrick, M., Houghton, B., Anderson, K., Poland, M., Montgomery-Brown, E., Johanson, I., . . . Elias, T. (2020). The cascading origin of the 2018 Kilauea eruption and implications for future forecasting. *Nature communications*, 11(1), 1-13. doi:doi.org/10.1038/s41467-020-19190-1

Piersanti, M., Materassi, M., Battiston, R., Carbone, V., Cicone, A., D'Angelo, G., . . . Ubertini, P. (2020). Magnetospheric-Ionospheric-Lithospheric Coupling Model. 1: Observations during the 5 August 2018 Bayan Earthquake. *Remote Sensing*, 12(20), 3299.

- Pitcher, L. H., Smith, L. C., Cooley, S. W., Zaino, A., Carlson, R., Pettit, J., . . . Willis, M. J. (2020). Advancing field-based GNSS surveying for validation of remotely sensed water surface elevation products. *Frontiers in Earth Science*, 8, 278.
- Pollitz, F. F., Murray, J. R., Svarc, J. L., Wicks, C., Roeloffs, E., Minson, S. E., . . . Nevitt, J. (2020). Kinematics of fault slip associated with the 4–6 July 2019 Ridgecrest, California, earthquake sequence. *Bulletin of the Seismological Society of America*, 110(4), 1688-1700.
- Rahmani, Y., Alizadeh, M. M., Schuh, H., Wickert, J., & Tsai, L.-C. (2020). Probing vertical coupling effects of thunderstorms on lower ionosphere using GNSS data. *Advances in Space Research*, 66(8), 1967-1976. doi:<https://doi.org/10.1016/j.asr.2020.07.018>
- Reddybattula, K. D., Panda, S. K., Sharma, S. K., Singh, A. K., Kurnala, K., Haritha, C. S., & Wuyyuru, S. (2020). Anomaly effects of 6–10 September 2017 solar flares on ionospheric total electron content over Saudi Arabian low latitudes. *Acta Astronautica*, 177, 332-340.
- Reinisch, E. C., Ali, S. T., Cardiff, M., Kaven, J. O., & Feigl, K. L. (2020). Geodetic measurements and numerical models of deformation at Coso geothermal field, California, USA, 2004–2016. *Remote Sensing*, 12(2), 225.
- Reinisch, E. C., Cardiff, M., Kreemer, C., Akerley, J., & Feigl, K. L. (2020). Time-Series Analysis of Volume Change at Brady Hot Springs, Nevada, USA, Using Geodetic Data From 2003–2018. *Journal of Geophysical Research: Solid Earth*, 125(9), e2019JB017816.
- Rizos, C., Altamimi, Z., & Johnson, G. (2020). Global Geodesy and Reference Frames. *Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications*, 1, 717-739.
- Rodenhizer, H., Ledman, J., Mauritz, M., Natali, S. M., Pegoraro, E., Plaza, C., . . . Schuur, E. (2020). Carbon thaw rate doubles when accounting for subsidence in a permafrost warming experiment. *Journal of Geophysical Research: Biogeosciences*, 125(6), e2019JG005528.
- Rodríguez-Zurrunero, A., Granja-Bruña, J. L., Muñoz-Martín, A., Leroy, S., ten Brink, U., Gorosabel-Araus, J., . . . Carbó-Gorosabel, A. (2020). Along-strike segmentation in the northern Caribbean plate boundary zone (Hispaniola sector): Tectonic implications. *Tectonophysics*, 776, 228322. doi:<https://doi.org/10.1016/j.tecto.2020.228322>
- Romero-Hernandez, E., Denardini, C., Jonah, O., Essien, P., Picanço, G., Nogueira, P., . . . Aguilar-Rodriguez, E. (2020). Nighttime ionospheric TEC study over Latin America during moderate and high solar activity. *Journal of Geophysical Research: Space Physics*, 125(10), e2020JA028210.

- Saltogianni, V., Mouslopoulou, V., Oncken, O., Nicol, A., Gianniou, M., & Mertikas, S. (2020). Elastic fault interactions and earthquake rupture along the southern Hellenic subduction plate interface zone in Greece. *Geophysical Research Letters*, 47(13), e2019GL086604.
- Samrat, N. H., King, M. A., Watson, C., Hooper, A., Chen, X., Barletta, V. R., & Bordoni, A. (2020). Reduced ice mass loss and three-dimensional viscoelastic deformation in northern Antarctic Peninsula inferred from GPS. *Geophysical Journal International*, 222(2), 1013-1022.
- Sánchez, L., & Drewes, H. (2020). Geodetic monitoring of the variable surface deformation in Latin America.
- Segall, P., Anderson, K. R., Pulvirenti, F., Wang, T., & Johanson, I. (2020). Caldera Collapse Geometry Revealed by Near-Field GPS Displacements at Kīlauea Volcano in 2018. *Geophysical Research Letters*, 47(15), e2020GL088867.
- Senapati, B., Huba, J., Kundu, B., Gahalaut, V. K., Panda, D., Mondal, S. K., & Catherine, J. K. (2020). Change in Total Electron Content During the 26 December 2019 Solar Eclipse: Constraints From GNSS Observations and Comparison With SAMI3 Model Results. *Journal of Geophysical Research: Space Physics*, 125(10), e2020JA028230.
- Shagimuratov, I., Zakharenkova, I. E., Yakimova, G. A., Tepenitsyna, N., & Efishov, I. I. (2020). GPS-TEC RESPONSE TO THE SOLAR ECLIPSE OF AUGUST 21, 2017 OVER AMERICA AND ECLIPSE IMPACT ON GPS POSITIONING PERFORMANCE. Paper presented at the Atmosphere, Ionosphere, Safety.
- Shah, K., Ballard, G., Schmidt, A., & Schwager, M. (2020). Multidrone aerial surveys of penguin colonies in Antarctica. *Science Robotics*, 5(47).
- Sharma, S. K., Singh, A. K., Panda, S. K., & Ansari, K. (2020). GPS derived ionospheric TEC variability with different solar indices over Saudi Arab region. *Acta Astronautica*, 174, 320-333.
- Shelly, D. R. (2020). A high-resolution seismic catalog for the initial 2019 Ridgecrest earthquake sequence: Foreshocks, aftershocks, and faulting complexity. *Seismological Research Letters*, 91(4), 1971-1978.
- Shen, Z. K., & Liu, Z. (2020). Integration of GPS and InSAR data for resolving 3-dimensional crustal deformation. *Earth and Space Science*, 7(4), e2019EA001036.
- Shimizu, K., Yagi, Y., Okuwaki, R., & Fukahata, Y. (2020). Development of an inversion method to extract information on fault geometry from teleseismic data. *Geophysical Journal International*, 220(2), 1055-1065.

Shimna, K., & Vijayan, M. S. M. (2020). Detecting ionospheric disturbances using GPS without aliasing caused by non-uniform spatial sampling: Algorithm, validation and illustration. *Journal of Atmospheric and Solar-Terrestrial Physics*, 209, 105400.

Shinbori, A., Otsuka, Y., Sori, T., Tsugawa, T., & Nishioka, M. (2020). Temporal and spatial variations of total electron content enhancements during a geomagnetic storm on 27 and 28 September 2017. *Journal of Geophysical Research: Space Physics*, 125(7), e2019JA026873.

Shiro, B. R., Zoeller, M. H., Kamibayashi, K., Johanson, I. A., Parcheta, C., Patrick, M. R., . . . Miklius, A. (2020). Monitoring network changes during the 2018 Kīlauea volcano eruption. *Seismological Research Letters*. doi:10.1785/0220200284.

Shreedevi, P., Choudhary, R., Thampi, S. V., Yadav, S., Pant, T., Yu, Y., . . . Sinha, A. (2020). Geomagnetic storm-induced plasma density enhancements in the southern polar ionospheric region: A comparative study using St. Patrick's Day storms of 2013 and 2015. *Space Weather*, 18(8), e2019SW002383.

Silverii, F., Montgomery-Brown, E., Borsa, A., & Barbour, A. (2020). Hydrologically induced deformation in long valley caldera and adjacent Sierra Nevada. *Journal of Geophysical Research: Solid Earth*, 125(5), e2020JB019495.

Simon, K., & Riva, R. (2020). Uncertainty estimation in regional models of long-term GIA uplift and sea level change: An overview. *Journal of Geophysical Research: Solid Earth*, 125(8), e2019JB018983.

Smith, R. G., & Majumdar, S. (2020). Groundwater storage loss associated with land subsidence in Western United States mapped using machine learning. *Water Resources Research*, 56(7), e2019WR026621.

Sohn, D.-H., Park, K.-D., Davis, J. L., Nettles, M., & Elosegui, P. (2020). Rapid ionospheric variations at high latitudes: Focusing on Greenland. *Advances in Space Research*.

Sparacino, F., Palano, M., Peláez, J. A., & Fernández, J. (2020). Geodetic deformation versus seismic crustal moment-rates: insights from the Ibero-Maghrebian region. *Remote Sensing*, 12(6), 952.

Spicher, A., Deshpande, K., Jin, Y., Oksavik, K., Zettergren, M. D., Clausen, L. B., . . . Baddeley, L. (2020). On the production of ionospheric irregularities via Kelvin-Helmholtz instability associated with cusp flow channels. *Journal of Geophysical Research: Space Physics*, 125(6), e2019JA027734.

Ssenyunzi, R. C., Oruru, B., D'ujanga, F. M., Realini, E., Barindelli, S., Tagliaferro, G., . . . van de Giesen, N. (2020). Performance of ERA5 data in retrieving Precipitable Water Vapour over East African tropical region. *Advances in Space Research*, 65(8), 1877-1893.

Stahl, T., Niemi, N., Bunds, M., Andreini, J., & Wells, J. (2020). Paleoseismic patterns of Quaternary tectonic and magmatic surface deformation in the eastern Basin and Range, USA. *Geosphere*, 16(1), 435-455.

Stamps, D., Kreemer, C., Fernandes, R., Rajaonarison, T., & Rambolamanana, G. (2020). Redefining East African Rift System kinematics. *Geology*.
doi:<https://doi.org/10.1130/G47985.1>

Stamps, D. S., Saria, E., & Kreemer, C. (2020). Author Correction: A Geodetic Strain Rate Model for the East African Rift System. *Scientific reports*, 10(1), 1-3.

Su, K., & Jin, S. (2020). Real-time seismic waveforms estimation of the 2019 Mw= 6.4 and Mw= 7.1 California earthquakes with high-rate multi-GNSS observations. *IEEE Access*, 8, 85411-85420.

Su, L., Shi, F., Gan, W., Su, X., & Yan, J. (2020). Probing time-dependent afterslip and viscoelastic relaxation following the 2015 Mw7. 8 Gorkha earthquake based on the 3-D finite-element model. *Earth, planets and space*, 72(1), 1-14.

Suab, S. A., Hayakawa, Y., Kume, S., Yamaguchi, Y., Amanbaeva, B., Kadyrov, A., . . . Ogura, T. (2020). Mapping of Archaeological Sites using UAV Aerial Survey and PPK GNSS Ground Survey Techniques in Central Asia. Paper presented at the IOP Conference Series: Earth and Environmental Science.

Tang, C. H., Barbot, S., Hsu, Y. J., & Wu, Y. M. (2020). Heterogeneous power-law flow with transient creep in southern California following the 2010 El Mayor-Cucapah earthquake. *Journal of Geophysical Research: Solid Earth*, 125(9), e2020JB019740.

Tariku, Y. A. (2020). Pattern of the variation of the TEC extracted from the GPS, IRI 2016, IRI-Plas 2017 and NeQuick 2 over polar region, Antarctica. *Life Sciences in Space Research*.

Tariku, Y. A. (2020). Assessment of Variability of the TEC in the Equatorial Anomaly Region with a Focus over Africa Using Rz and F10. 7 as Input Drivers. *The Astronomical Journal*, 160(4), 185.

Tariku, Y. A. (2020). Comparison of performance of the IRI 2016, IRI-Plas 2017, and NeQuick 2 models during different solar activity (2013–2018) years over South American sector. *Radio Science*, 55(8), 1-17.

Tian, Z., Freymueller, J. T., & Yang, Z. (2020). Spatio-temporal variations of afterslip and viscoelastic relaxation following the Mw 7.8 Gorkha (Nepal) earthquake. *Earth and Planetary Science Letters*, 532, 116031.

Turner, R. J., Reading, A. M., & King, M. A. (2020). Separation of tectonic and local components of horizontal GPS station velocities: a case study for glacial isostatic adjustment in East Antarctica. *Geophysical Journal International*, 222(3), 1555-1569. doi:<https://doi.org/10.1093/gji/ggaa265>

Valentine, D., Zaslavsky, I., Richard, S., Meier, O., Hudman, G., Peucker-Ehrenbrink, B., & Stocks, K. (2020). EarthCube Data Discovery Studio: A gateway into geoscience data discovery and exploration with Jupyter notebooks. *Concurrency and Computation: Practice and Experience*, e6086.

Valenzuela, C. R. M., & Ferhat, G. (2020). Using high-sensitivity receivers for differential GPS positioning. *INGEO&SIG 2020*, 75.

Viltres, R., Jónsson, S., Ruch, J., Doubre, C., Reilinger, R., Floyd, M., & Ogubazghi, G. (2020). Kinematics and deformation of the southern Red Sea region from GPS observations. *Geophysical Journal International*, 221(3), 2143-2154.

Wagle, N., & Acharya, T. D. (2020). Past and present practices of topographic base map database update in Nepal. *ISPRS International Journal of Geo-Information*, 9(6), 397.

Wang, G., Zhou, X., Wang, K., Ke, X., Zhang, Y., Zhao, R., & Bao, Y. (2020). GOM20: a stable geodetic reference frame for subsidence, faulting, and sea-level rise studies along the coast of the Gulf of Mexico. *Remote Sensing*, 12(3), 350.

Wang, M., & Shen, Z. K. (2020). Present-day crustal deformation of continental China derived from GPS and its tectonic implications. *Journal of Geophysical Research: Solid Earth*, 125(2), e2019JB018774. doi:<https://doi.org/10.1029/2019JB018774>

Watson, C. S., Kargel, J. S., Shugar, D. H., Haritashya, U. K., Schiassi, E., & Furfaro, R. (2020). Mass loss from calving in Himalayan proglacial lakes. *Frontiers in Earth Science*, 7, 342.

Wdowinski, S., Oliver-Cabrera, T., & Fiaschi, S. (2020). Land subsidence contribution to coastal flooding hazard in southeast Florida. *Proceedings of the International Association of Hydrological Sciences*, 382, 207-211.

Webb, R. W., Wigmore, O., Jennings, K., Fend, M., & Molotch, N. P. (2020). Hydrologic connectivity at the hillslope scale through intra-snowpack flow paths during snowmelt. *Hydrological Processes*, 34(7), 1616-1629. doi:<https://doi.org/10.1002/hyp.13686>

Weber, J., Geirsson, H., La Femina, P., Robertson, R., Churches, C., Shaw, K., . . . Miller, K. (2020). Fault creep and strain partitioning in Trinidad-Tobago: Geodetic measurements, models, and origin of creep. *Tectonics*, 39(1), e2019TC005530.

Wicks, C. W., Dzurisin, D., Lowenstern, J. B., & Svarc, J. (2020). Magma intrusion and volatile ascent beneath Norris Geyser Basin, Yellowstone National Park. *Journal of Geophysical Research: Solid Earth*, 125(2), e2019JB018208.

Xiao, Y., Yao, M., Tang, S., Liu, H., Xing, P., & Zhang, Y. (2020). Data Quality Check and Visual Analysis of CORS Station Based on Anubis Software. *The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, 42, 1295-1300. doi:10.5194/isprs-archives-XLII-3-W10-1295-2020

Xie, S., Dixon, T. H., Malservisi, R., Jiang, Y., Protti, M., & Muller, C. (2020). Slow Slip and Inter-transient Locking on the Nicoya Megathrust in the Late and Early Stages of an Earthquake Cycle. *Journal of Geophysical Research: Solid Earth*, 125(11), e2020JB020503.

Xu, X., Sandwell, D. T., & Smith-Konter, B. (2020). Coseismic displacements and surface fractures from Sentinel-1 InSAR: 2019 Ridgecrest earthquakes. *Seismological Research Letters*, 91(4), 1979-1985.

Xue, X., Freymueller, J., & Lu, Z. (2020). Modeling the posteruptive deformation at Okmok based on the GPS and InSAR time series: Changes in the shallow magma storage system. *Journal of Geophysical Research: Solid Earth*, 125(2), e2019JB017801. doi:https://doi.org/10.1029/2019JB017801

Xue, X., & Freymueller, J. T. (2020). A 25-Year History of Volcano Magma Supply in the East Central Aleutian Arc, Alaska. *Geophysical Research Letters*, 47(15), e2020GL088388.

Yang, Z., Morton, Y. J., Zakharenkova, I., Cherniak, I., Song, S., & Li, W. (2020). Global View of Ionospheric Disturbance Impacts on Kinematic GPS Positioning Solutions During the 2015 St. Patrick's Day Storm. *Journal of Geophysical Research: Space Physics*, 125(7), e2019JA027681.

Yang, Z., Mrak, S., & Morton, Y. J. (2020). Geomagnetic Storm Induced Mid-latitude Ionospheric Plasma Irregularities and Their Implications for GPS Positioning over North America: A Case Study. Paper presented at the 2020 IEEE/ION Position, Location and Navigation Symposium (PLANS).

Yao, S., & Yang, H. (2020). Rupture dynamics of the 2012 Nicoya Mw 7.6 earthquake: Evidence for low strength on the Megathrust. *Geophysical Research Letters*, 47(13), e2020GL087508.

Yasyukevich, Y., Vasilyev, R., Ratovsky, K., Setov, A., Globa, M., Syrovatskii, S., . . . Vesnin, A. (2020). Small-Scale Ionospheric Irregularities of Auroral Origin at Mid-latitudes during the 22 June 2015 Magnetic Storm and Their Effect on GPS Positioning. *Remote Sensing*, 12(10), 1579.

Yasyukevich, Y. V., Kiselev, A. V., Zhivetiev, I. V., Edemskiy, I. K., Syrovatskii, S. V., Maletckii, B. M., & Vesnin, A. M. (2020). SIMuRG: System for ionosphere monitoring and research from GNSS. *GPS solutions*, 24, 1-12.

Yehun, A., Kassa, T., Vermeer, M., & Hunegnaw, A. (2020). Higher Order Ionospheric Delay and Derivation of Regional Total Electron Content over Ethiopian Global Positioning System Stations. *Advances in Space Research*. doi:<https://doi.org/10.1016/j.asr.2020.04.035>

Yin, G., Forman, B. A., Loomis, B. D., & Luthcke, S. B. (2020). Comparison of vertical surface deformation estimates derived from space-based gravimetry, ground-based GPS, and model-based hydrologic loading over snow-dominated watersheds in the United States. *Journal of Geophysical Research: Solid Earth*, 125(8), e2020JB019432.

Zakharenkova, I., & Cherniak, I. (2020). When plasma streams tie up equatorial plasma irregularities with auroral ones. *Space Weather*, 18(2), e2019SW002375.

Zang, J., Xu, C., & Li, X. (2020). Scaling earthquake magnitude in real time with high-rate GNSS peak ground displacement from variometric approach. *GPS solutions*, 24(4), 1-10.

Zhai, W., Zhu, J., Ma, C., Fan, X., Yan, L., Wang, H., & Chen, C. (2020). Measurement of the sea surface using a GPS towing-body in Wanshan area. *Acta Oceanologica Sinica*, 39(5), 123-132.

Zhang, L., & Schwieger, V. (2020). Reducing multipath effect of low-cost GNSS receivers for monitoring by considering temporal correlations. *Journal of Applied Geodesy*, 14(2), 167-175.

Zhang, S., He, L., & Wu, L. (2020). Statistical study of loss of GPS signals caused by severe and great geomagnetic storms. *Journal of Geophysical Research: Space Physics*, 125(9), e2019JA027749.

Zhang, S., & Lei, K. (2020). Study on the Correlation Between GNSS Vertical Time Series and the Space-Time Distribution of Groundwater in California. Paper presented at the China Satellite Navigation Conference (CSNC) 2020 Proceedings: Volume I.

Zhang, Z., Guo, F., & Zhang, X. (2020). Triple-frequency multi-GNSS reflectometry snow depth retrieval by using clustering and normalization algorithm to compensate terrain variation. *GPS solutions*, 24(2), 1-18. doi:<https://doi.org/10.1007/s10291-020-0966-4>

Zhang, Z., Zhang, W., Xin, D., Chen, K., & Chen, X. (2020). A Dynamic-Rupture Model of the 2019 Mw 7.1 Ridgecrest Earthquake Being Compatible with the Observations, . Seismological Research Letters, 1-7. doi:10.1785/0220200258.

Zhao, J., Zhang, Z., Yao, W., Datcu, M., Xiong, H., & Yu, W. (2020). OpenSARUrban: A Sentinel-1 SAR Image Dataset for Urban Interpretation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 13, 187-203. doi:10.1109/JSTARS.2019.2954850

Zhu, Y. F., Shen, F., Sui, M.M., Cao, X.Y. (2020). Effects of Parameter Selections on Soil Moisture Retrieval Using GNSS-IR. IEEE Access, 8, 211784-211793.

Zitellini, N., Ranero, C. R., Loreto, M. F., Ligi, M., Pastore, M., D’Orlando, F., . . . Prada, M. (2020). Recent inversion of the Tyrrhenian Basin. Geology, 48(2), 123-127.

Кирилов, А., & Сычев, В. (2020). Изменения полного электронного содержания ионосферы во время прохождения геомагнитной бури 31 августа–3 сентября 2019 года по данным GPS. Геосистемы переходных зон, 4(3), 297-304.

Кишкина, А., Шестаков, Н., Гончуков, Л., & Бугаец, А. (2020). Оценка содержания водяного пара по данным ГНСС-наблюдений в атмосфере в Приморском крае, Россия. Paper presented at the ЧЕТВЕРТЫЕ ВИНОГРАДОВСКИЕ ЧТЕНИЯ. ГИДРОЛОГИЯ ОТ ПОЗНАНИЯ К МИРОВОЗЗРЕНИЮ.

Хода, О. (2020). Друга кампанія репроцесингу архівних спостережень в Центрі аналізу ГНСС-даних ГАО НАН України.