

Aa, E., Zhang, S. R., Erickson, P. J., Coster, A. J., Goncharenko, L. P., Varney, R. H., & Eastes, R. (2021). Salient midlatitude ionosphere-thermosphere disturbances associated with SAPS during a minor but geo-effective storm at deep solar minimum. *Journal of Geophysical Research: Space Physics*, 126(7), e2021JA029509.

Abiriga, F., Amabayo, E. B., Jurua, E., & Cilliers, P. J. (2021). Investigation of the impact of Ionospheric Scintillation on GNSS Performance over East Africa. *Advances in Space Research*.

AbouAly, N., Elhussien, M., Rabah, M., & Zidan, Z. (2021). Assessment of NRCAN PPP online service in determination of crustal velocity: case study Northern Egypt GNSS Network. *Arabian Journal of Geosciences*, 14(3), 1-15.

AbouAly, N., Hussien, M., Rabah, M., Zidan, Z., & Saleh, M. (2021). Land deformation monitoring by GNSS in the Nile Delta and the measurements analysis. *Arabian Journal of Geosciences*, 14(3), 1-12.

Aguilar, J., Allison, P., Beatty, J., Bernhoff, H., Besson, D., Bingefors, N., . . . Clark, B. (2021). Design and sensitivity of the Radio Neutrino Observatory in Greenland (RNO-G). *Journal of Instrumentation*, 16(03), P03025.

Akala, A., Oyedokun, O., Amaechi, P., Simi, K., Ogwala, A., & Arowolo, O. (2021). Solar origins of August 26, 2018 geomagnetic storm: Responses of the interplanetary medium and equatorial/low-latitude ionosphere to the storm. *Space Weather*, 19(10), e2021SW002734.

Aldaajani, T., Furlong, K., & Malservisi, R. (2021). The rigidity of the western Arabian margin: extensional strain rate field from GPS networks. *Arabian Journal of Geosciences*, 14(5), 1-11.

Alfonsi, L., Cesaroni, C., Spogli, L., Regi, M., Paul, A., Ray, S., . . . Oikonomou, C. (2021). Ionospheric disturbances over the Indian sector during 8 September 2017 geomagnetic storm: plasma structuring and propagation. *Space Weather*, 19(3), e2020SW002607.

Alghamdi, A., Hesse, M. A., Chen, J., Villa, U., & Ghattas, O. (2021). Bayesian poroelastic aquifer characterization from InSAR surface deformation data. 2. Quantifying the uncertainty. *Water Resources Research*, 57(11), e2021WR029775.

Amabayo, E. B., Andima, G., & Ssenyunzi, R. C. (2021). Instantaneous Ionospheric Scintillation Mapping over the East African Region by use of GPS Derived Amplitude Scintillation Proxy. *Asian Journal of Research and Reviews in Physics*, 6-20.

Amaechi, P., Oyeyemi, E., Akala, A., Messanga, H., Panda, S., Seemala, G. K., . . . Amory-Mazaudier, C. (2021). Ground-Based GNSS and C/NOFS Observations of Ionospheric Irregularities Over Africa: A Case Study of the 2013 St. Patrick's Day Geomagnetic Storm. *Space Weather*, 19(2), e2020SW002631.

Amaechi, P. O., Akala, A. O., Oyedokun, J. O., Simi, K., Aghogho, O., & Oyeyemi, E. O. (2021). Multi-Instrument Investigation of the Impact of the Space Weather Events of 6–10 September 2017. *Space Weather*, 19(12), e2021SW002806.

Amaechi, P. O., Oyeyemi, E. O., Akala, A. O., Kaab, M., Younas, W., Benkhaldoun, Z., . . . Mazaudier, C.-A. (2021). Comparison of ionospheric anomalies over African equatorial/low-latitude region with IRI-2016 model predictions during the maximum phase of solar cycle 24. *Advances in Space Research*.

An, J., Zhang, B., Ai, S., Wang, Z., & Feng, Y. (2021). Evaluation of vertical crustal movements and sea level changes around Greenland from GPS and tide gauge observations. *Acta Oceanologica Sinica*, 40(1), 4-12.

Anastasio, D. J., Kodama, K. P., Parés, J. M., Hinnov, L. A., & Idleman, B. D. (2021). Internal and external modulation of folding rates with 104 to 105 year time resolutions from growth strata, Pico del Aguila, Spain. *Geochemistry, Geophysics, Geosystems*, 22(7), e2021GC009828.

Ansari, K., & Sharma, S. K. (2021). Ionospheric TEC variation based on GNSS data over the Arabian Peninsula and validation with the cubic spline interpolated GIM model. *Advances in Space Research*, 68(9), 3814-3820.

Argus, D. F., Peltier, W. R., Blewitt, G., & Kreemer, C. (2021). The viscosity of the top third of the lower mantle estimated using GPS, GRACE, and relative sea level measurements of glacial isostatic adjustment. *Journal of Geophysical Research: Solid Earth*, 126(5), e2020JB021537.

Arief, S., & Muafir, I. M. (2021). METEOROLOGICAL GNSS APPLICATION FOR HEAVY RAIN ON DECEMBER 31, 2019 IN THE JAKARTA AND SURROUNDING AREAS. Paper presented at the Seminar Nasional Geomatika.

Ávila-Barrientos, L., Cabral-Cano, E., Pichardo, F. A. N., Reinoza, C. E., Salazar-Tlaczani, L., & Fernández-Torres, E. (2021). Surface deformation of Ceboruco volcano, Nayarit, Mexico. *Journal of Volcanology and Geothermal Research*, 418, 107338.

Ayhan, M. E., & Almuslmani, B. (2021). Positional accuracy and convergence time assessment of GPS precise point positioning in static mode. *Arabian Journal of Geosciences*, 14(13), 1-12.

Barbero, I., Torrecillas, C., Páez, R., Prates, G., & Berrocoso, M. (2021). Recent Macaronesian kinematics from GNSS ground displacement analysis. *Studia Geophysica et Geodaetica*, 65(1), 15-35.

Barbour, A. J., Langbein, J. O., & Farghal, N. S. (2021). Earthquake Magnitudes from Dynamic Strain. *Bulletin of the Seismological Society of America*, 111(3), 1325-1346.

Beer, S., Wanninger, L., & Heßelbarth, A. (2021). Estimation of absolute GNSS satellite antenna group delay variations based on those of absolute receiver antenna group delays. *GPS solutions*, 25(3), 1-10.

Bell, A. F., Hernandez, S., La Femina, P. C., & Ruiz, M. C. (2021). Uplift and Seismicity driven by Magmatic Inflation at Sierra Negra Volcano, Galápagos Islands. *Journal of Geophysical Research: Solid Earth*, 126(7), e2021JB022244.

Bell, A. F., La Femina, P. C., Ruiz, M., Amelung, F., Bagnardi, M., Bean, C. J., . . . Grannell, J. (2021). Caldera resurgence during the 2018 eruption of Sierra Negra volcano, Galápagos Islands. *Nature communications*, 12(1), 1-9.

Bemelmans, M. J., de Zeeuw-van Dalfsen, E., Poland, M. P., & Johanson, I. A. (2021). Insight into the May 2015 summit inflation event at Kīlauea Volcano, Hawai‘i. *Journal of Volcanology and Geothermal Research*, 415, 107250.

Berghuis, H., Veldkamp, A., Adhityatama, S., Hilgen, S. L., Sutisna, I., Barianto, D. H., . . . Ekowati, D. R. (2021). Hominin homelands of East Java: Revised stratigraphy and landscape reconstructions for Plio-Pleistocene Trinil. *Quaternary Science Reviews*, 260, 106912.

Beşel, C., & Kayıkçı, E. T. (2021). Determination of sea level variations in Turkish Mediterranean coast using GNSS reflectometry. *Survey Review*, 1-10.

Bock, O., Bosser, P., Flamant, C., Doerflinger, E., Jansen, F., Fages, R., . . . Schnitt, S. (2021). Integrated water vapour observations in the Caribbean arc from a network of ground-based GNSS receivers during EUREC 4 A. *Earth System Science Data*, 13(5), 2407-2436.

Broermann, J., Bennett, R. A., Kreemer, C., Blewitt, G., & Pearthree, P. A. (2021). Geodetic extension across the southern Basin and Range and Colorado Plateau. *Journal of Geophysical Research: Solid Earth*, 126(6), e2020JB021355.

Cai, X., Burns, A. G., Wang, W., Qian, L., Liu, J., Solomon, S. C., . . . McClintock, W. E. (2021). Observation of postsunset OI 135.6 nm radiance enhancement over South America by the GOLD mission. *Journal of Geophysical Research: Space Physics*, 126(2), e2020JA028108.

Cai, X., Burns, A. G., Wang, W., Qian, L., Pedatella, N., Coster, A., . . . Daniell, R. E. (2021). Variations in thermosphere composition and ionosphere total electron content under “geomagnetically quiet” conditions at solar-minimum. *Geophysical Research Letters*, 48(11), e2021GL093300.

Campos-Durán, D., Quintero-Quintero, R., & Abarca-Rojas, T. (2021). Terremoto del Valle de La Estrella: análisis sísmico, cascada de desastres y pérdidas económicas en valor presente (2020). *Revista Geológica de América Central*(65), 1-23.

Cao, Y., Li, Z., Duan, M., & Wei, J. (2021). High-resolution water vapor maps obtained by merging interferometric synthetic aperture radar and GPS measurements. *Journal of Geophysical Research: Atmospheres*, 126(1), e2020JD033430.

Cesaroni, C., Spogli, L., & De Franceschi, G. (2021). IONORING: Real-Time Monitoring of the Total Electron Content over Italy. *Remote Sensing*, 13(16), 3290.

Charlevoix, D. J., Morris, A. R., Russo-Nixon, K., & Thiry, H. (2021). Engaging two-year college students in geoscience: Summer Pre-REU internships and professional development to prepare students for participation in research. *Journal of Geoscience Education*, 1-16.

Chaussard, E., Havazli, E., Fattah, H., Cabral-Cano, E., & Solano-Rojas, D. (2021). Over a century of sinking in Mexico City: No hope for significant elevation and storage capacity recovery. *Journal of Geophysical Research: Solid Earth*, 126(4), e2020JB020648.  
doi:<https://doi.org/10.1029/2020JB020648>

Chen, C., Zhu, J., Ma, C., Lin, M., Yan, L., Huang, X., . . . Jia, Y. (2021). Preliminary calibration results of the HY-2B altimeter’s SSH at China’s Wanshan calibration site. *Acta Oceanologica Sinica*, 40(5), 129-140.

Chousianitis, K., Papanikolaou, X., Drakatos, G., & Tselentis, G. A. (2021). NOANET: A Continuously Operating GNSS Network for Solid-Earth Sciences in Greece. *Seismological Society of America*, 92(3), 2050-2064.

Cigna, F., & Tapete, D. (2021). Satellite InSAR survey of structurally-controlled land subsidence due to groundwater exploitation in the Aguascalientes Valley, Mexico. *Remote Sensing of Environment*, 254, 112254.

Colman, D. R., Lindsay, M. R., Harnish, A., Bilbrey, E. M., Amenabar, M. J., Selensky, M. J., . . . Shock, E. L. (2021). Seasonal hydrologic and geologic forcing drive hot spring geochemistry and microbial biodiversity. *Environmental microbiology*.

Crowell, B. W. (2021). Near-Field Strong Ground Motions from GPS-Derived Velocities for 2020 Intermountain Western United States Earthquakes. *Seismological Society of America*, 92(2A), 840-848.

Crozier, J., & Karlstrom, L. (2021). Wavelet-Based Characterization of Very-Long-Period Seismicity Reveals Temporal Evolution of Shallow Magma System Over the 2008–2018 Eruption of Kīlauea Volcano. *Journal of Geophysical Research: Solid Earth*, 126(6), e2020JB020837.

D'Angelo, G., Piersanti, M., Pignalberi, A., Coco, I., De Michelis, P., Tozzi, R., . . . Ubertini, P. (2021). Investigation of the Physical Processes Involved in GNSS Amplitude Scintillations at High Latitude: A Case Study. *Remote Sensing*, 13(13), 2493.

Darvishi, M., Destouni, G., Aminjafari, S., & Jaramillo, F. (2021). Multi-Sensor InSAR Assessment of Ground Deformations around Lake Mead and Its Relation to Water Level Changes. *Remote Sensing*, 13(3), 406.

Delgado, F., & Grandin, R. (2021). Dynamics of episodic magma injection and migration at Yellowstone Caldera: revisiting the 2004–2009 episode of caldera uplift with InSAR and GPS data. *Journal of Geophysical Research: Solid Earth*, 126(8), e2021JB022341.

Drooff, C., & Freymueller, J. T. (2021). New Constraints on Slip Deficit on the Aleutian Megathrust and Inflation at Mt. Veniaminof, Alaska From Repeat GPS Measurements. *Geophysical Research Letters*, 48(4), e2020GL091787.

Dumka, R. K., Suribabu, D., Narain, P., Kothiyari, G. C., Taloor, A. K., & Prajapati, S. (2021). PSInSAR and GNSS derived deformation study in the west part of Narmada Son Lineament (NSL), western India. *Quaternary Science Advances*, 100035.

Eisenbeis, J., & Occhipinti, G. (2021). The TEC enhancement before seismic events is an artifact. *Journal of Geophysical Research: Space Physics*, 126(4), e2020JA028733.

Eisenbeis, J., & Occhipinti, G. (2021). TEC depletion generated by the total solar eclipse of 2 July 2019. *Journal of Geophysical Research: Space Physics*, 126(12), e2021JA029186.

Erdogan, E., Schmidt, M., Goss, A., Görres, B., & Seitz, F. (2021). Real-Time Monitoring of Ionosphere VTEC Using Multi-GNSS Carrier-Phase Observations and B-Splines. *Space Weather*, 19(10), e2021SW002858.

Fan, W., Barbour, A. J., Cochran, E. S., & Lin, G. (2021). Characteristics of frequent dynamic triggering of microearthquakes in Southern California. *Journal of Geophysical Research: Solid Earth*, 126(1), e2020JB020820.

Fang, R., Zheng, J., Geng, J., Shu, Y., Shi, C., & Liu, J. (2021). Earthquake Magnitude Scaling Using Peak Ground Velocity Derived from High-Rate GNSS Observations. *Seismological Society of America*, 92(1), 227-237.

Farzaneh, S., Parvazi, K., & Shali, H. H. (2021). GNSS-IR-UT: A MATLAB-based software for SNR-based GNSS interferometric reflectometry (GNSS-IR) analysis. *Earth Science Informatics*, 1-13.

Fialko, Y., & Jin, Z. (2021). Simple shear origin of the cross-faults ruptured in the 2019 Ridgecrest earthquake sequence. *Nature Geoscience*, 1-6.

Figueredo, S., Weiss, J. R., Hongn, F., Pingel, H., Escalante, L., Elías, L., . . . Strecker, M. R. (2021). Late Pleistocene to recent deformation in the thick-skinned fold-and-thrust belt of northwestern Argentina (central Calchaquí Valley, 26 S). *Tectonics*, 40(1), e2020TC006394.

Finnegan, N. J., Perkins, J. P., Nereson, A. L., & Handwerger, A. L. (2021). Unsaturated flow processes and the onset of seasonal deformation in slow-moving landslides. *Journal of Geophysical Research: Earth Surface*, 126(5), e2020JF005758.

Foroodi, Z., Alizadeh, M., Schuh, H., & Tsai, L.-C. (2021). Alternative Approach for Tsunami Early Warning Indicated by Gravity Wave Effects on Ionosphere. *Remote Sensing*, 13(11), 2150.

Forsythe, V. V., Azeem, I., Blay, R., Crowley, G., Gasperini, F., Hughes, J., . . . Wu, W. (2021). Evaluation of the new background covariance model for the ionospheric data assimilation. *Radio Science*, 56(8), 1-10.

Frederiksen, A., Pokar, P., Barrow, E., Revenaugh, J., & van der Lee, S. (2021). Altered mantle fabric beneath the Mid-Continent Rift. *Geochemistry, Geophysics, Geosystems*, 22(9), e2021GC010012.

Frietsch, M., Ferreira, A. M., & Funning, G. J. (2021). Data-driven two-fault modelling of the Mw 6.0 2008 Wells, Nevada earthquake suggests a listric fault rupture. *Journal of Geophysical Research: Solid Earth*.

Gaxiola-Camacho, J. R., Vazquez-Ontiveros, J. R., Guzman-Acevedo, G. M., Bennett, R. A., Reyes-Blanco, J. M., & Vazquez-Becerra, G. E. (2021). Real-Time Probabilistic Structural Evaluation of Bridges Using Dynamic Displacements Extracted via GPS Technology. *Journal of Surveying Engineering*, 147(2), 04021002.

Ghimire, B. D., Chapagain, N. P., Khadka, B., Bidari, G., Bhatta, K., & Thapa, A. S. (2021). GPS TEC Scintillations and TEC depletion as seen from Hetauda and NAST, Nepal for 2016. *BIBECHANA*, 18(2), 87-94.

Gierke, J. S., Bowman, L. J., Clark, E., Henquinet, K. B., & Carter, A. (2021). Equity in Designing a Summer International Research Experience: Recruitment and Partnerships for a Graduate Field School in El Salvador. Paper presented at the World Environmental and Water Resources Congress 2021.

Gómez, D. D. (2021). Ionospheric Response to the December 14, 2020 Total Solar Eclipse in South America. *Journal of Geophysical Research: Space Physics*, 126(7), e2021JA029537.

Goncharenko, L. P., Tamburri, C. A., Tobiska, W. K., Schonfeld, S. J., Chamberlin, P. C., Woods, T. N., . . . Zhang, S. R. (2021). A new model for ionospheric total electron content: The impact of solar flux proxies and indices. *Journal of Geophysical Research: Space Physics*, 126(2), e2020JA028466.

Gong, J., & McGuire, J. J. (2021). Constraints on the geometry of the subducted Gorda plate from converted phases generated by local earthquakes. *Journal of Geophysical Research: Solid Earth*, 126(2), e2020JB019962.

Gorsevski, P. V., Fu, Y., Panter, K. S., Ramanayake, A. M., & Snyder, J. (2021). Seasonal hydrological loading from GPS observed data across contiguous USA using integrated R and Hadoop-GIS framework. *Arabian Journal of Geosciences*, 14(5), 1-11.

Gratton, P., Banville, S., Lachapelle, G., & O'Keefe, K. (2021). Kinematic Zenith Tropospheric Delay Estimation with GNSS PPP in Mountainous Areas. *Sensors*, 21(17), 5709.

Guns, K., Pollitz, F., Lay, T., & Yue, H. (2021). Exploring GPS observations of postseismic deformation following the 2012 MW7. 8 Haida Gwaii and 2013 MW7. 5 Craig, Alaska earthquakes: Implications for viscoelastic Earth structure. *Journal of Geophysical Research: Solid Earth*, 126(7), e2021JB021891.

Guns, K. A., Bennett, R. A., Spinler, J. C., & McGill, S. F. (2021). New geodetic constraints on southern San Andreas fault-slip rates, San Gorgonio Pass, California. *Geosphere*, 17(1), 39-68.

Gunti, S., Narendran, J., & Muralikrishnan, S. (2021). PWV Estimation Using GPS and its Comparison with INSAT-3D Rainfall Data. *Journal of the Indian Society of Remote Sensing*, 49(6), 1453-1460.

Habarulema, J. B., Okoh, D., Bergeot, N., Burešová, D., Matamba, T., Tshisaphungo, M., . . . Seemala, G. (2021). Interhemispheric comparison of the ionosphere and plasmasphere total electron content using GPS, radio occultation and ionosonde observations. *Advances in Space Research*.

Haji-Aghajany, S., Amerian, Y., Verhagen, S., Rohm, W., & Schuh, H. (2021). The effect of function-based and voxel-based tropospheric tomography techniques on the GNSS positioning accuracy. *Journal of Geodesy*, 95(7), 1-17.

Hamiel, Y., & Piatibratova, O. (2021). Spatial Variations of Slip and Creep Rates Along the Southern and Central Dead Sea Fault and the Carmel–Gilboa Fault System. *Journal of Geophysical Research: Solid Earth*, 126(9), e2020JB021585.  
doi:<https://doi.org/10.1029/2020JB021585>

Hammond, W. C., Blewitt, G., Kreemer, C., Koehler, R. D., & Dee, S. (2021). Geodetic observation of seismic cycles before, during, and after the 2020 Monte Cristo Range, Nevada earthquake. *Seismological Research Letters*, 92(2A), 647-662.

He, X., Bos, M. S., Montillet, J.-P., Fernandes, R., Melbourne, T., Jiang, W., & Li, W. (2021). Spatial variations of stochastic noise properties in GPS time series. *Remote Sensing*, 13(22), 4534.

Heki, K. (2021). Ionospheric disturbances related to Earthquakes. *Ionosphere Dynamics and Applications*, 511-526.

Hirose, F., Tamaribuchi, K., & Maeda, K. (2021). Characteristics of foreshocks revealed by an earthquake forecasting method based on precursory swarm activity. *Journal of Geophysical Research: Solid Earth*, 126(9), e2021JB021673.  
doi:<https://doi.org/10.1029/2021JB021673>

Hossen, M. J., Mulia, I. E., Mencin, D., & Sheehan, A. F. (2021). Data Assimilation for Tsunami Forecast With Ship-Borne GNSS Data in the Cascadia Subduction Zone. *Earth and Space Science*, 8(3), e2020EA001390.

Hu, X., Bürgmann, R., Xu, X., Fielding, E., & Liu, Z. (2021). Machine-Learning Characterization of Tectonic, Hydrological and Anthropogenic Sources of Active Ground Deformation in California. *Journal of Geophysical Research: Solid Earth*, 126(11), e2021JB022373. doi:<https://doi.org/10.1029/2021JB022373>

Idolor, O., Akala, A., & Bolaji, O. (2021). Responses of the African and American equatorial ionization anomaly (EIA) to 2014 arctic SSW events. *Space Weather*, 19(11), e2021SW002812.

Inaba, Y., Shiokawa, K., Oyama, S. i., Otsuka, Y., Connors, M., Schofield, I., . . . Gololobov, A. Y. (2021). Multi-event analysis of plasma and field variations in source of stable auroral red (SAR) arcs in inner magnetosphere during non-storm-time substorms. *Journal of Geophysical Research: Space Physics*, 126(4), e2020JA029081.

Inbal, A., Thomas, A., Newton, T., & Bürgmann, R. (2021). Complex migration of tremor near Cholame, CA, resolved by seismic array analysis. *Journal of Geophysical Research: Solid Earth*, 126(9), e2021JB022174.

Jiang, Y., Wu, X., van den Broeke, M. R., Kuipers Munneke, P., Simonsen, S. B., van der Wal, W., & Vermeersen, B. L. (2021). Assessing global present-day surface mass transport and glacial isostatic adjustment From inversion of geodetic observations. *Journal of Geophysical Research: Solid Earth*, 126(5), e2020JB020713.

Jin, Z., & Fialko, Y. (2021). Coseismic and early postseismic deformation due to the 2021 M7. 4 Maduo (China) earthquake. *Geophysical Research Letters*, 48(21), e2021GL095213. Johnson, C. W., Lau, N., & Borsa, A. (2021). An assessment of global positioning system velocity uncertainty in California. *Earth and Space Science*, 8(1), e2020EA001345.

Jones, C. E., Osmanoglu, B., & Torbick, N. (2021). NISAR's Capabilities in Support of the Applications Community. Paper presented at the 2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS.

Jones, L., & Hobbs, P. (2021). The application of terrestrial LiDAR for geohazard mapping, monitoring and modelling in the British Geological Survey. *Remote Sensing*, 13(3), 395.

Juadines, K. E., Ballado, A., Macalalad, E., & Mendoza, M. (2021). Development of a MATLAB Web-based Application for Calculating Ionospheric Scintillation Proxy Indexes (S 4p-1 and S 4p-2) and the Rate of Total Electron Content Index (RoTI). Paper presented at the 2021 IEEE World AI IoT Congress (AIoT).

Kelly, S. M. (2021). Digging for Data. *The Science Teacher*, 88(5).

Kim, J., Bahadori, A., & Holt, W. E. (2021). Crustal Strain Patterns Associated With Normal, Drought, and Heavy Precipitation Years in California. *Journal of Geophysical Research: Solid Earth*, 126(1), e2020JB019560.

Kim, J., Holt, W. E., Bahadori, A., & Shen, W. (2021). Repeating nontectonic seasonal stress changes and a possible triggering mechanism of the 2019 ridgecrest earthquake sequence in California. *Journal of Geophysical Research: Solid Earth*, 126(10), e2021JB022188.

Kim, M., & Kim, J. (2021). SBAS-Aided GPS Positioning with an Extended Ionosphere Map at the Boundaries of WAAS Service Area. *Remote Sensing*, 13(1), 151.

Kirchgaessner, A., King, J. C., & Anderson, P. S. (2021). The impact of Föhn conditions across the Antarctic Peninsula on local meteorology based on AWS measurements. *Journal of Geophysical Research: Atmospheres*, 126(4), e2020JD033748.

- Koulali, A., & Clarke, P. (2021). Modelling quasi-periodic signals in geodetic time-series using Gaussian processes. *Geophysical Journal International*, 226(3), 1705-1714.
- Kunduri, B., Baker, J., Ruohoniemi, J., Coster, A., Vines, S., Anderson, B., . . . Chartier, A. (2021). An Examination of Magnetosphere-Ionosphere Influences During a SAPS Event. *Geophysical Research Letters*, 48(19), e2021GL095751.
- Lai, C.-Y., Stevens, L. A., Chase, D. L., Creyts, T. T., Behn, M. D., Das, S. B., & Stone, H. A. (2021). Hydraulic transmissivity inferred from ice-sheet relaxation following Greenland supraglacial lake drainages. *Nature communications*, 12(1), 1-10.
- Larson, K. M., Lay, T., Yamazaki, Y., Cheung, K. F., Ye, L., Williams, S. D., & Davis, J. L. (2021). Dynamic sea level variation from GNSS: 2020 Shumagin earthquake tsunami resonance and Hurricane Laura. *Geophysical Research Letters*, 48(4), e2020GL091378.
- Lazos, I., Pikridas, C., Chatzipetros, A., & Pavlides, S. (2021). Determination of local active tectonics regime in central and northern Greece, using primary geodetic data. *Applied Geomatics*, 13(1), 3-17.
- Lazos, I., Sboras, S., Pikridas, C., Pavlides, S., & Chatzipetros, A. (2021). Geodetic analysis of the tectonic crustal deformation pattern in the North Aegean Sea, Greece. *Mediterranean Geoscience Reviews*, 3(1), 79-94.
- Leidman, S. Z., Rennermalm, Å. K., Muthyalu, R., Guo, Q., & Overeem, I. (2021). The presence and widespread distribution of dark sediment in Greenland ice sheet supraglacial streams implies substantial impact of microbial communities on sediment deposition and albedo. *Geophysical Research Letters*, 48(1), 2020GL088444.
- Levandowski, W., Boyd, O. S., AbdelHameid, D., & McNamara, D. E. (2021). Crustal seismic attenuation of the central United States and Intermountain West. *Journal of Geophysical Research: Solid Earth*, 126(12), e2021JB022097. doi:<https://doi.org/10.1029/2021JB022097>
- Li, S., Sigmundsson, F., Drouin, V., Parks, M. M., Ofeigsson, B. G., Jónsdóttir, K., . . . Hreinsdóttir, S. (2021). Ground deformation after a caldera collapse: contributions of magma inflow and viscoelastic response to the 2015–2018 deformation field around Bárðarbunga, Iceland. *Journal of Geophysical Research: Solid Earth*, 126(3), e2020JB020157. doi:<https://doi.org/10.1029/2020JB020157>
- Li, Y., Han, L., Yi, L., Zhong, S., & Chen, C. (2021). Feature extraction and improved denoising method for nonlinear and nonstationary high-rate GNSS coseismic displacements applied to earthquake focal mechanism inversion of the El Mayor–Cucapah earthquake. *Advances in Space Research*.

- Li, Z., Chen, P., Zheng, N. (2021). Accuracy analysis of GNSS-IR snow depth inversion algorithms. *Advances in Space Research*, 67(4), 1317-1332.
- Liu, H., Yang, L., & Li, L. (2021). Analyzing the Impact of Climate Factors on GNSS-Derived Displacements by Combining the Extended Helmert Transformation and XGboost Machine Learning Algorithm. *Journal of Sensors*, 2021.
- Liu, J., Wu, J., Wang, W., Cai, Y., & Fang, L. (2021). Seismic anisotropy and implications for lithospheric deformation beneath the Ordos Block and surrounding regions. *Geophysical Journal International*, 226(3), 1885-1896.
- Liu, L., Morton, Y. J., & Liu, Y. (2021). Machine Learning Prediction of Storm-Time High-Latitude Ionospheric Irregularities From GNSS-Derived ROTI Maps. *Geophysical Research Letters*, 48(20), e2021GL095561.
- Loreto, M. F., Palmiotto, C., Muccini, F., Ferrante, V., & Zitellini, N. (2021). Inverted Basins by Africa–Eurasia Convergence at the Southern Back-Arc Tyrrhenian Basin. *Geosciences*, 11(3), 117.
- Lu, Z., & Wen, L. (2021). Months-long crustal deformation driven by aseismic slips and pore pressure transients triggered by local and regional earthquakes. *Geophysical Research Letters*, e2021GL095148.
- Lyros, E., Kostelecky, J., Plicka, V., Vratislav, F., Sokos, E., & Nikolakopoulos, K. (2021). Detection of tectonic and crustal deformation using GNSS data processing: The case of ppgnet. *Civ Eng J*, 7(1), 14-23.
- Mahavarkar, P., Bhadra, D., John, J., Dongre, V., Iype, A., Mukherjee, S., . . . Birthare, P. K. (2021). Commissioning of the multiparametric geophysical observatory at Shoal Bay, South Andaman and the preliminary results. *Measurement*, 168, 108354.
- Manley, G. F., Mather, T. A., Pyle, D. M., Clifton, D. A., Rodgers, M., Thompson, G., & Roman, D. C. (2021). Machine learning approaches to identifying changes in eruptive state using multi-parameter datasets from the 2006 eruption of Augustine Volcano, Alaska. *Journal of Geophysical Research: Solid Earth*, 126(12), e2021JB022323.
- Manta, F., Occhipinti, G., Hill, E. M., Perttu, A., Assink, J., & Taisne, B. (2021). Correlation between GNSS-TEC and eruption magnitude supports the use of ionospheric sensing to complement volcanic hazard assessment. *Journal of Geophysical Research: Solid Earth*, 126(2), e2020JB020726.
- Margheriti, L., Nostro, C., Cocina, O., Castellano, M., Moretti, M., Lauciani, V., . . . Pintore, S. (2021). Seismic surveillance and earthquake monitoring in Italy. *Seismological Society of America*, 92(3), 1659-1671.

- Martínez-Díaz, J. J., Álvarez-Gómez, J. A., Staller, A., Alonso-Henar, J., Canora, C., Insúa-Arévalo, J. M., . . . Hernández-Moreno, C. (2021). Active faults of El Salvador. *Journal of South American Earth Sciences*, 105, 103038.
- Martínez-Garzón, P., Durand, V., Bentz, S., Kwiatek, G., Dresen, G., Turkmen, T., . . . Bohnhoff, M. (2021). Near-Fault Monitoring Reveals Combined Seismic and Slow Activation of a Fault Branch within the Istanbul–Marmara Seismic Gap in Northwest Turkey. *Seismological Research Letters*.
- Materna, K., Feng, L., Lindsey, E. O., Hill, E. M., Ahsan, A., Alam, A. K., . . . Khaing, S. N. (2021). GNSS characterization of hydrological loading in South and Southeast Asia. *Geophysical Journal International*, 224(3), 1742-1752.
- Mateus, P., Mendes, V. B., & Plecha, S. M. (2021). HGPT2: An ERA5-Based Global Model to Estimate Relative Humidity. *Remote Sensing*, 13(11), 2179.
- Maute, A., Richmond, A., Lu, G., Knipp, D., Shi, Y., & Anderson, B. (2021). Magnetosphere-ionosphere coupling via prescribed field-aligned current simulated by the TIEGCM. *Journal of Geophysical Research: Space Physics*, 126(1), e2020JA028665.
- McMahon, C., Mora, O. E., & Starek, M. J. (2021). Evaluating the Performance of sUAS Photogrammetry with PPK Positioning for Infrastructure Mapping. *Drones*, 5(2), 50.
- Mehdi, S., Shah, M., & Naqvi, N. A. (2021). Lithosphere atmosphere ionosphere coupling associated with the 2019 Mw 7.1 California earthquake using GNSS and multiple satellites. *Environmental Monitoring and Assessment*, 193(8), 1-13.
- Mehmood, M., Saleem, S., Filjar, R., Naqvi, N. A., & Ahmed, A. (2021). Total Electron Content (TEC) estimation over Pakistan from local GPS network using spherical harmonics. *Annals of Geophysics*, 64(1), GD102-GD102.
- Mejia, J., Gulley, J., Trunz, C., Covington, M. D., Bartholomaus, T., Xie, S., & Dixon, T. H. (2021). Isolated cavities dominate Greenland Ice Sheet dynamic response to lake drainage. *Geophysical Research Letters*, 48(19), e2021GL094762.
- Melbourne, T. I., Szeliga, W. M., Marcelo Santillan, V., & Scrivner, C. W. (2021). Global Navigational Satellite System Seismic Monitoring. *Bulletin of the Seismological Society of America*, 111(3), 1248-1262.
- Mora-Páez, H., & Audemard, F. (2021). GNSS Networks for Geodynamics in the Caribbean, Northwestern South America, and Central America. In *Geodetic Sciences-Theory, Applications and Recent Developments*: IntechOpen.

Moses, M., Dodo, J. D., Ojigi, L. M., & Lawal, K. (2021). Regional ionospheric total electron content over Africa from ground-based GNSS observations. *South African Journal of Geomatics*, 10(1).

Mrak, S., Semeter, J., Nishimura, Y., & Coster, A. J. (2021). Extreme Low-Latitude Total Electron Content Enhancement and Global Positioning System Scintillation at Dawn. *Space Weather*, 19(9), e2021SW002740.

Mulugeta, S., & Kassa, T. (2021). Nighttime ionospheric irregularities inferred from Rate of Total Electron Content Index (ROTI) values over Bahir Dar, Ethiopia. *Advances in Space Research*, 67(4), 1261-1266.

Mungufeni, P., Kim, Y. H., & Sscessenga, N. (2021). Observations of ionospheric irregularities and its correspondence with sporadic e occurrence over South Korea and Japan. *Advances in Space Research*, 67(7), 2207-2218.

Muskett, R. R. (2021). GRACE, the Chandler Wobble and Interpretations of Terrestrial Water Transient Storage. *International Journal of Geosciences*, 12(2), 102-120.

Newton, T., Weldon, R., Miller, I., Schmidt, D., Mauger, G., Morgan, H., & Grossman, E. (2021). An Assessment of Vertical Land Movement to Support Coastal Hazards Planning in Washington State. *Water* 2021, 13, 281. In: s Note: MDPI stays neutral with regard to jurisdictional claims in published ....

Newton, T. J., Weldon, R., Miller, I. M., Schmidt, D., Mauger, G., Morgan, H., & Grossman, E. (2021). An Assessment of Vertical Land Movement to Support Coastal Hazards Planning in Washington State. *Water*, 13(3), 281.

Nishimura, Y., Mrak, S., Semeter, J., Coster, A., Jayachandran, P., Groves, K., . . . Ruohoniemi, J. (2021). Evolution of Mid-latitude Density Irregularities and Scintillation in North America During the 7–8 September 2017 Storm. *Journal of Geophysical Research: Space Physics*, 126(6), e2021JA029192.

Nuyen, C. P., & Schmidt, D. A. (2021). Filling the Gap in Cascadia: The Emergence of Low-Amplitude Long-Term Slow Slip. *Geochemistry, Geophysics, Geosystems*, 22(3), e2020GC009477.

Ogwala, A., Somoye, E. O., Panda, S. K., Ogunmodimu, O., Onori, E., Sharma, S. K., . . . Oyedokun, O. (2021). Total electron content at equatorial and low-, middle-and high-latitudes in African longitude sector and its comparison with IRI-2016 and IRI-PLAS 2017 models. *Advances in Space Research*, 68(5), 2160-2176.

Olugbon, B., Oyeyemi, E., Kascheyev, A., Rabiu, A., Obafaye, A., Odeyemi, O., & Adewale, A. (2021). Daytime Equatorial Spread F-Like Irregularities Detected by HF Doppler Receiver and Digisonde. *Space Weather*, 19(4), e2020SW002676.

Oyedokun, O., Akala, A., & Oyeyemi, E. (2021). Responses of the African equatorial ionization anomaly (EIA) to some selected intense geomagnetic storms during the maximum phase of solar cycle 24. *Advances in Space Research*, 67(4), 1222-1243.

Panda, S. K., Haralambous, H., Moses, M., Dabbakuti, J. K., & Tariku, Y. A. (2021). Ionospheric and plasmaspheric electron contents from space-time collocated digisonde, COSMIC, and GPS observations and model assessments. *Acta Astronautica*, 179, 619-635.

Pandit, D., Ghimire, B., Amory-Mazaudier, C., Fleury, R., Chapagain, N. P., & Adhikari, B. (2021). Climatology of ionosphere over Nepal based on GPS total electron content data from 2008 to 2018. Paper presented at the *Annales Geophysicae*.

Papadimitriou, P., Kapetanidis, V., Karakonstantis, A., Spingos, I., Pavlou, K., Kaviris, G., . . . Voulgaris, N. (2021). The 25 October 2018 Zakynthos (Greece) earthquake: seismic activity at the transition between a transform fault and a subduction zone. *Geophysical Journal International*, 225(1), 15-36.

Parker, J., Donnellan, A., Bilham, R., Ludwig, L. G., Wang, J., Pierce, M., . . . Jänecke, S. (2021). Buried Aseismic Slip and Off-Fault Deformation on the Southernmost San Andreas Fault Triggered by the 2010 El Mayor Cucapah Earthquake Revealed by UAVSAR. *Earth and Space Science*, 8(8), e2021EA001682.

Perry, M., & Bendick, R. (2021). Intraplate Seasonal Seismicity in the Northern Rocky Mountains of Montana and Idaho. *Geophysical Research Letters*, 48(3), e2020GL090371. Pinat, E., Defraigne, P., Bergeot, N., Chevalier, J.-M., & Bertrand, B. (2021). Long-Term Snow Height Variations in Antarctica from GNSS Interferometric Reflectometry. *Remote Sensing*, 13(6), 1164.

Polcari, M., Palano, M., & Moro, M. (2021). Performance evaluation of different SAR-based techniques on the 2019 ridgecrest sequence. *Remote Sensing*, 13(4), 685.

Pulvirenti, F., Liu, Z., Lundgren, P., Gonzalez-Ortega, A., & Aloisi, M. (2021). New fault slip distribution for the 2010 Mw 7.2 El Mayor Cucapah earthquake based on realistic 3D finite element inversions of coseismic displacements using space geodetic data. *Journal of Geophysical Research: Solid Earth*, 126(1), e2020JB020016.

Putri, G. N., Fadly, R., & Rahmadi, E. (2021). PENDEFINISIAN KOORDINAT ULP2 UNIVERSITAS LAMPUNG TERHADAP ITRF 2014 SERTA ANALISA PENGGUNAAN TIGA MACAM RECEIVER YANG BERBEDA. *Journal of Geodesy and Geomatics*, 1(1), 18-27.

Qin, Y., Rodero, I., Simonet, A., Meertens, C., Reiner, D., Riley, J., & Parashar, M. (2021). Leveraging user access patterns and advanced cyberinfrastructure to accelerate data delivery from shared-use scientific observatories. *Future Generation Computer Systems*, 122, 14-27.

Rahmani, M., Nafisi, V., Böhm, S., & Asgari, J. (2021). Evaluation of the GSRM2. 1 and the NUVEL1-A values in Europe using SLR and VLBI based geodetic velocity fields. *Survey Review*, 1-14.

Ramírez-Zelaya, J., Rosado, B., Barba, P., Gárate, J., & Berrocoso, M. (2021). Analysis of Different GNSS Data Filtering Techniques and Comparison of Linear and Non-Linear Times Series Solutions: Application to GNSS Stations in Central America for Regional Geodynamic Model Determination. Paper presented at the Engineering Proceedings.

Rashwan, M., Sawires, R., Radwan, A. M., Sparacino, F., Peláez, J. A., & Palano, M. (2021). Crustal Strain and Stress Fields in Egypt from Geodetic and Seismological Data. *Remote Sensing*, 13(7), 1398.

Ray, J. D., Vijayan, M. S. M., & Godah, W. (2021). Seasonal horizontal deformations obtained using GPS and GRACE data: case study of North-East India and Nepal Himalaya. *Acta Geodaetica et Geophysica*, 56(1), 61-76.

Reitman, N. G., & Molnar, P. (2021). Strain and velocity across the Great Basin derived from 15-ka fault slip rates: Implications for continuous deformation and seismic hazard in the Walker Lane, California-Nevada, USA. *Tectonics*, 40(3), e2020TC006389.

Rodrigues, F., Socola, J., Moraes, A., Martinis, C., & Hickey, D. (2021). On the Properties of and Ionospheric Conditions Associated With a Mid-Latitude Scintillation Event Observed Over Southern United States. *Space Weather*, 19(6), e2021SW002744.

Saber, R., Isik, V., & Caglayan, A. (2021). Structural styles of the Aras fault zone with implications for a transpressive fault system in NW Iran. *Journal of Asian Earth Sciences*, 207, 104655.

Salah, M. (2021). SRTM DEM correction over dense urban areas using inverse probability weighted interpolation and Sentinel-2 multispectral imagery. *Arabian Journal of Geosciences*, 14(9), 1-16.

Samrat, N. H., King, M. A., Watson, C., Hay, A., Barletta, V. R., & Bordoni, A. (2021). Upper mantle viscosity underneath northern Marguerite Bay, Antarctic Peninsula constrained by bedrock uplift and ice mass variability. *Geophysical Research Letters*, 48(24), e2021GL097065.

Scott, C., Phan, M., Nandigam, V., Crosby, C., & Arrowsmith, J. R. (2021). Measuring change at Earth's surface: On-demand vertical and three-dimensional topographic differencing implemented in OpenTopography. *Geosphere*, 17(4), 1318-1332.

Seefeldt, M. W., Low, T. M., Landolt, S. D., & Nylen, T. H. (2021). Remote and Autonomous Measurements of Precipitation for the Northwest Ross Ice Shelf, Antarctica. *Earth System Science Data Discussions*, 1-26.

Sergeeva, M. A., Demyanov, V. V., Maltseva, O. A., Mokhnatkin, A., Rodriguez-Martinez, M., Gutierrez, R., . . . Fedorov, M. E. (2021). Assessment of Morelian Meteoroid Impact on Mexican Environment. *Atmosphere*, 12(2), 185.

Shaddox, H. R., Schwartz, S. Y., & Bartlow, N. M. (2021). Afterslip and spontaneous aseismic slip on the Anza segment of the San Jacinto Fault Zone, southern California. *Journal of Geophysical Research: Solid Earth*, 126(6), e2020JB020460.

Shinbori, A., Otsuka, Y., Tsugawa, T., Nishioka, M., Kumamoto, A., Tsuchiya, F., . . . Matsuoka, A. (2021). Relationship between the locations of the midlatitude trough and plasmapause using GNSS-TEC and Arase satellite observation data. *Journal of Geophysical Research: Space Physics*, 126(5), e2020JA028943.

Shrestha, A., & Migoya-Orue, Y. (2021). GPS-TEC observations over Nepal during the Total Solar Eclipse on 22 July 2009. *Journal of Nepal Physical Society*, 7(1), 54-59.

Silwal, A., Gautam, S., Chapagain, N., Karki, M., Poudel, P., Ghimire, B., . . . Adhikari, B. (2021). Ionospheric Response over Nepal during the 26 December 2019 Solar Eclipse. *Journal of Nepal Physical Society*, 7(1), 25-30.

Silwal, A. G., SP; Migoya-Orue, Y; Gautam, S P; Poudel, P; Karki, M; Adhikari, B; Chapagain, N P; Mishra, R K; Ghimire, B D; Migoya-Orue, Y. (2021). Global Positioning System Observations of Ionospheric Total Electron Content Variations During the 15th January 2010 and 21st June 2020 Solar Eclipse. *Radio Science*, 56(5).

Simmons, B. S., & Wempen, J. M. (2021). Quantifying relationships between subsidence and longwall face advance using DInSAR. *International Journal of Mining Science and Technology*, 31(1), 91-94.

Simon, J. B., Fulton, P.M., Xue, L. (2021). Hydrogeologic Property Estimation in Plate Boundary Observatory Boreholes Using Tidal Response Analysis. *Geofluids*(March).

Smith, L., Andrews, L., Pitcher, L., Overstreet, B., Rennermalm, Å., Cooper, M., . . . Kershner, C. (2021). Supraglacial river forcing of subglacial water storage and diurnal ice sheet motion. *Geophysical Research Letters*, 48(7), e2020GL091418.

- Soleymani Azad, S., Shokri, M. A., & Sartipi, A. (2021). A Review of Tectonics and Seismotectonics of Urmia Lake, NW Iran.
- Sori, T., Shinburi, A., Otsuka, Y., Tsugawa, T., & Nishioka, M. (2021). The occurrence feature of plasma bubbles in the equatorial to midlatitude ionosphere during geomagnetic storms using long-term GNSS-TEC data. *Journal of Geophysical Research: Space Physics*, 126(5), e2020JA029010.
- Ssenyunzi, R. C., Oruru, B., & D'ujanga, F. M. (2021). Linear regression models to predict the tropospheric parameters at the Global Positioning systems' sites over the East African region. *East African Journal of Science, Technology and Innovation*, 2(3).
- Stamps, D., Kreemer, C., Fernandes, R., Rajaonarison, T., & Rambolamanana, G. (2021). Redefining East African Rift System kinematics. *Geology*, 49(2), 150-155.
- Sun, T., Davis, E., & Heesemann, M. (2021). Seismic formation fluid pressure observations reveal high anisotropy of oceanic crust. *Geophysical Research Letters*, 48(20), e2021GL095347.
- Sunil, A., Bagiya, M. S., Bletery, Q., & Ramesh, D. (2021). Association of ionospheric signatures to various tectonic parameters during moderate to large magnitude earthquakes: case study. *Journal of Geophysical Research: Space Physics*, 126(3), e2020JA028709.
- Tariku, Y. A. (2021). The geomagnetic storm time response of the mid latitude ionosphere during solar cycle 24. *Radio Science*, 56(12), 1-13.
- Taylor, N. C., Johnson, J. H., & Herd, R. A. (2021). Making the most of the Mogi model: Size matters. *Journal of Volcanology and Geothermal Research*, 107380.
- Tian, Z., Freymueller, J. T., & Yang, Z. (2021). Postseismic Deformation due to the 2012 M w 7.8 Haida Gwaii and 2013 M w 7.5 Craig Earthquakes and its Implications for Regional Rheological Structure. *Journal of Geophysical Research: Solid Earth*, 126(2), e2020JB020197.
- Tomaštík, J., & Varga, M. (2021). Practical applicability of processing static, short-observation-time raw GNSS measurements provided by a smartphone under tree vegetation. *Measurement*, 178, 109397.
- Vadas, S. L., & Azeem, I. (2021). Concentric secondary gravity waves in the thermosphere and ionosphere over the continental United States on March 25–26, 2015 from deep convection. *Journal of Geophysical Research: Space Physics*, 126(2), e2020JA028275.

van Rijsingen, E., Calais, E., Jolivet, R., de Chabalier, J. B., Jara, J., Symithe, S., . . . Ryan, G. A. (2021). Inferring interseismic coupling along the lesser antilles arc: A Bayesian approach. *Journal of Geophysical Research: Solid Earth*, 126(2), e2020JB020677. doi:<https://doi.org/10.1029/2020JB020677>

Wang, K., Dreger, D. S., Tinti, E., Bürgmann, R., & Taira, T. a. (2021). Erratum to rupture process of the 2019 Ridgecrest, California Mw 6.4 foreshock and Mw 7.1 earthquake constrained by seismic and geodetic data. *Bulletin of the Seismological Society of America*, 111(1), 621-621.

Wang, T., Zheng, Y., Pulvirenti, F., & Segall, P. (2021). Post-2018 Caldera Collapse Re-Inflation Uniquely Constrains Kīlauea's Magmatic System. *Journal of Geophysical Research: Solid Earth*, 126(6), e2021JB021803.

Watanabe, K., Jin, H., Nishimoto, S., Imada, S., Kawai, T., Kawate, T., . . . Nishioka, M. (2021). Model-based reproduction and validation of the total spectra of a solar flare and their impact on the global environment at the X9. 3 event of September 6, 2017. *Earth, planets and space*, 73(1), 1-10.

Webb, R. W., Jennings, K., Finsterle, S., & Fassnacht, S. R. (2021). Two-dimensional liquid water flow through snow at the plot scale in continental snowpacks: simulations and field data comparisons. *The Cryosphere*, 15(3), 1423-1434.

Wedmore, L., Biggs, J., Floyd, M., Fagereng, Å., Mdala, H., Chindandali, P., . . . Mphepo, F. (2021). Geodetic constraints on cratonic microplates and broad strain during rifting of thick Southern African lithosphere. *Geophysical Research Letters*, e2021GL093785.

Wen, Y., Xiao, Z., He, P., Zang, J., Liu, Y., & Xu, C. (2021). Source characteristics of the 2020 M W 7.4 Oaxaca, Mexico, earthquake estimated from GPS, InSAR, and teleseismic waveforms. *Seismological Society of America*, 92(3), 1900-1912.

Wesnousky, S. G. (2021). Seismotectonic Snapshots: The 18 March 2020 M w 5.7 Magna, 31 March 2020 M w 6.5 Stanley, and 15 May 2020 M w 6.5 Monte Cristo Intermountain West Earthquakes. *Seismological Society of America*, 92(2A), 755-772.

Wielgosz, P., Milanowska, B., Krypiak-Gregorczyk, A., & Jarmołowski, W. (2021). Validation of GNSS-derived global ionosphere maps for different solar activity levels: case studies for years 2014 and 2018. *GPS solutions*, 25(3), 1-15.

Woodard, J., Zoet, L., Iverson, N. R., & Helanow, C. (2021). Variations in Hard-Bedded Topography Beneath Glaciers. *Journal of Geophysical Research: Earth Surface*, 126(9), e2021JF006326.

Xu, X., Sandwell, D. T., Klein, E., & Bock, Y. (2021). Integrated Sentinel-1 InSAR and GNSS Time-Series Along the San Andreas Fault System. *Journal of Geophysical Research: Solid Earth*, 126(11), e2021JB022579. doi:<https://doi.org/10.1029/2021JB022579>

Yalvac, S. (2021). Investigating the historical development of accuracy and precision of Galileo by means of relative GNSS analysis technique. *Earth Science Informatics*, 14(1), 193-200.

Yang, X., Chu, R., Yang, J., & Wei, Z. (2021). Transfer Functions of Borehole Dilatometer Responses to Atmospheric Loading from Low-to High-Frequency Bands: A Systematic Study in Mainland China. *Pure and Applied Geophysics*, 1-21.

Yasyukevich, Y. V., Yasyukevich, A., & Astafyeva, E. (2021). How modernized and strengthened GPS signals enhance the system performance during solar radio bursts. *GPS solutions*, 25(2), 1-12.

Yin, G., Forman, B. A., & Wang, J. (2021). Assimilation of Ground-based GPS Observations of Vertical Displacement into a Land Surface Model to Improve Terrestrial Water Storage Estimates. *Water Resources Research*, 57(2), e2020WR028763.

Young, Z. M., Kreemer, C., & Blewitt, G. (2021). GPS Constraints on Drought-Induced Groundwater Loss Around Great Salt Lake, Utah, With Implications for Seismicity Modulation. *Journal of Geophysical Research: Solid Earth*, 126(10), e2021JB022020. doi:<https://doi.org/10.1029/2021JB022020>

Yun, S., & Lee, H. (2021). Quality Assessment of GPS L2C Signals and Measurements. *Journal of Positioning, Navigation, and Timing*, 10(1), 13-20.

Zakharenkova, I., & Cherniak, I. (2021). Effects of storm-induced equatorial plasma bubbles on GPS-based kinematic positioning at equatorial and middle latitudes during the September 7–8, 2017, geomagnetic storm. *GPS solutions*, 25(4), 1-14.

Zhang, J., & Liu, L. (2021). Mining noise data for monitoring Arctic permafrost by using GNSS interferometric reflectometry. *Polar Science*, 100649.

Zhang, J., Zhao, B., Wang, D., Yu, J., & Tan, K. (2021). Dynamic modeling of postseismic deformation following the 2015 Mw 7.8 Gorkha earthquake, Nepal. *Journal of Asian Earth Sciences*, 215, 104781.

Zhang, S., Peng, J., Zhang, C., Zhang, J., Wang, L., Wang, T., & Liu, Q. (2021). GiRsnow: an open-source software for snow depth retrievals using GNSS interferometric reflectometry. *GPS solutions*, 25(2), 1-8.

Zhang, S. R., Erickson, P. J., Gasque, L., Aa, E., Rideout, W., Vierinen, J., . . . Coster, A. J. (2021). Electrified postsunrise ionospheric perturbations at Millstone Hill. *Geophysical Research Letters*, 48(18), e2021GL095151.

Zhang, S. R., Erickson, P. J., Vierinen, J., Aa, E., Rideout, W., Coster, A. J., & Goncharenko, L. P. (2021). Conjugate ionospheric perturbation during the 2017 solar eclipse. *Journal of Geophysical Research: Space Physics*, 126(2), e2020JA028531.

Zhang, X., Nie, S., Zhang, C. (2021). Soil moisture estimation based on triple-frequency multipath error. *International journal of remote sensing*, 42(15), 5955-5970.

Zhang, Y., Liu, X., Guo, J., Shi, K., Zhou, M., & Wang, F. (2021). Co-Seismic Ionospheric Disturbance with Alaska Strike-Slip Mw7. 9 Earthquake on 23 January 2018 Monitored by GPS. *Atmosphere*, 12(1), 83.

Zhang, Y., Wu, Z., Feng, J., Xu, T., Deng, Z., Ou, M., & Xiong, W. (2021). Time delay of ionospheric TEC storms to geomagnetic storms and pre-storm disturbance events in East Asia. *Advances in Space Research*, 67(5), 1535-1545.

Zhang, Z., Zhang, W., Xin, D., Chen, K., & Chen, X. (2021). A dynamic-rupture model of the 2019 M w 7.1 Ridgecrest earthquake being compatible with the observations. *Seismological Society of America*, 92(2A), 870-876.

Zhao, X., Xie, H., Hu, L., Sun, W., Hao, X., Ning, B., . . . Li, G. (2021). Climatology of equatorial and low-latitude F region kilometer-scale irregularities over the meridian circle around 120° E/60° W. *GPS solutions*, 25(1), 1-14.

Zheng, K., Zhang, X., Sang, J., Zhao, Y., Wen, G., & Guo, F. (2021). Common-mode error and multipath mitigation for subdaily crustal deformation monitoring with high-rate GPS observations. *GPS solutions*, 25(2), 1-15.

Zhou, X., Wang, G., Wang, K., Liu, H., Lyu, H., & Turco, M. J. (2021). Rates of Natural Subsidence along the Texas Coast Derived from GPS and Tide Gauge Measurements. *Journal of Surveying Engineering*, 147(4).

Zhou, X., Zhang, S., Liu, Q., Peng, J., Wang, L., & Shao, B. (2021). Research on Digital Elevation Model Using GNSS-IR Technology. Paper presented at the China Satellite Navigation Conference (CSNC 2021) Proceedings.

Zimmermann, M., & Prescott, M. M. (2021). False Pass, Alaska: Significant changes in depth and shoreline in the historic time period. *Fisheries Oceanography*, 30(3), 264-279.

Zou, Y., Walsh, B. M., Shi, X., Lyons, L., Liu, J., Angelopoulos, V., . . . Henderson, M. G. (2021). Geospace plume and its impact on dayside magnetopause reconnection rate. *Journal of Geophysical Research: Space Physics*, 126(6), e2021JA029117.

Λιώλης, Δ. (2021). Ανάπτυξη εφαρμογής ιστού για τη διαχείριση και τον προσδιορισμό μεροληπτικών σφαλμάτων (biases) των μετρήσεων, κατά τη μετεπεξεργασία δεδομένων από πολλαπλά συστήματα GNSS.

Магомедов, Х., Таймазов, Д., Адилов, З., & Магомед-Касумов, М. (2021). РЕЗУЛЬТАТЫ КОМПЛЕКСНЫХ СЕЙСМОЛОГИЧЕСКИХ, ГЕОФИЗИЧЕСКИХ И ГЕОХИМИЧЕСКИХ ИССЛЕДОВАНИЙ НА ТЕРРИТОРИИ РЕСПУБЛИКИ ДАГЕСТАН В 2016-2020 ГГ. Российский сейсмологический журнал, 3(2), 67-85.

范建军, 李才, 牛耀龄, 解超明, & 王明. (2021). 造山带板内洋岛-海山残片的识别及地质意义. 地球科学, 46(2), 381-404.