Dr. Hira Ashfaq Lodhi

Publications:

a) Lodhi, H.A., Ahmed, S., Hasan, H., 2021. Tsunami heights and limits in 1945 along the Makran coast estimated from testimony gathered seven decades later in Gwadar, Pasni and Ormara. Nat. Haz. and Earth Sys. Sci. https://doi.org/10.5194/nhess-2021-53. (W-category, Q1)

b) Lodhi, H.A., Hasan, H., Nandana, N.A.K., 2020. The role of hydrodynamic impact force in subaerial boulder transport by tsunami—Experimental evidence and revision of boulder transport equation. Sediment. Geol. 408, https://doi.org/10.1016/j.sedgeo.2020.105745. (W-category, Q1)

c) Adams, L., Ahmed, S., Atwater, B.F., Elton, J., Hasan, H., Hasan, N.A., Humayan, A., Kakar, D.M., Lodhi, H.A., Naeem, G., Srinivasalu, S., Usman, A., Wright, L.M., 2020. Karachi effects of the Makran earthquake and tsunami of November 1945; Mercury spilled, tide gauge impaired, seawalls overrun, boats displaced, mosque flooded. UNESCO/IOC, Jakarta.

d) Kakar, D.M., Naeem, G., Usman, A., Hasan, H., Lodhi, H.A., Srinivasalu, S., Andrade, V., Rajendran, C.P., Beni, A.N., Hamzeh, M.A., Hoffmann, G., Balushi, N.A., Gale, N., Kodijat, A.M., Fritz, H.M., Atwater, B.F., 2014. Elders Recall an Earlier Tsunami on Indian Ocean Shores. Eos Trans. Am. Geophys. Union 95, 485–486. https://doi.org/10.1002/2014EO510002.

Conference Publications/Presentations

a) Hasan, H., Lodhi, H.A., Ahmed, S., Rais, A., Rafi, M.M., Khan, S., 2023. Earthquake Thresholds for Tsunami Early Warning in Pakistan. Presented at American Geophysical Union 2023.

b) Lodhi, H.A., Hasan, H., Atwater, B.F., Wei, Y., 2023. Estimation of Minimum Magnitude of Different Tsunamigenic Earthquake Sources from six centuries old boulder fields at Anegada (British Virgin Islands). Presented at 3rd International workshop on Waves, Storm Surges, and Coastal Hazards, University of Notre Dame (South Bend).

c) Lodhi, H.A., Hasan, H., Atwater, B.F., Wei, Y., 2023. Boulder Transport Modelling Reveals Ancient Tsunami Sources in the Northeast Caribbean. Presented at 1st Annual meeting of IGCP Project 725: Forecasting Coastal Change, Florianopolis.

d) Lodhi, H.A., Lodi, S., Hasan, H., 2019. 1945 Makran Tsunami: Validation through oral and written histories. Presented at the First South Asia Conference on Earthquake Engineering (SACEE'19), Karachi. e) Hasan, H., Lodhi, H.A., LeVeque, R.J., Lodi, S., Ahmed, S., 2017. Assessing tsunami risk to Karachi Port through simulation of currents that were reportedly produced there by the 1945 Makran Tsunami. Presented at the 16th World Conference on Earthquake Engineering, Chile.

f) Lodhi, H.A., Hasan, H., Naeem, G., 2016. Numerical simulation of Makran tsunami in creeks of the Indus Delta, Pakistan. Presented at the IGCP-Project 639, Muscat.

g) Naeem, G., Usman, A., Lodhi, H.A., 2016. Promoting Survival of the next Makran Tsunami in the Indus Delta. Presented at the IGCP-Project 639, Muscat.

h) Lodhi, H.A., Hasan, H., Lodi, S., 2015. Initial steps towards mapping urban limits for Pakistan. Presented at the International Conference on Reducing Tsunami Risk in the Western Indian Ocean, Muscat.

i) Hasan, H., Lodhi, H.A., Lodi, S., 2015. The impact of earthquake source parameters on the 1945 tsunami wave profiles and arrival times, poster presentation. Presented at the International Conference on Reducing Tsunami Risk in the Western Indian Ocean, Muscat