REFERENCES

Allen, P.A.and Homewood, P. (1984) Evolution and mechanics of a Miocene tidal sand wave. Sedimentology,31,63–81.

Allen, G.P.andPosamentier, H.W.(1993) Sequence stratigraphy and facies model of an incised valley fill: theGironde estuary, France.J. Sed. Petrol.,63, 378–391.

Alcántara-Carrió J, Sasaki DK, de Mahiques MM, Taborda R, Souza LAP (2017) Sedimentary constraints on the development of a narrow deep strait (São Sebastião Channel, SE Brazil). Geo-Marine Letters. doi:10.1007/s00367-017-0495-5

Alexander, Clark R., Charles A. Nittrouer, David J. Demaster, Yong-Ahn Park, and Soo-Chul Park. "Macrotidal mudflats of the southwestern Korean coast; a model for interpretation of intertidal deposits." *Journal of Sedimentary Research* 61, no. 5 (1991): 805-824.

Ammann, B. and Lotter, A. F. 1989 Late-Glacial radiocarbon and palynostratigraphy on the Swiss Plateau. Boreas 18: 109-126.Anderson, D. M., Overpeck, J. T., & Gupta, A. K. (2002). Increase in the Asian southwest monsoon during the past four centuries. *Science*, *297*(5581), 596-599.

Andree, M., Oeschger, H., Siegenthaler, U., Riesen, T., Moell, M., Ammann, B. and Tobolski, K. 198614C dating of plant macrofossils in lake sediment. In Stuiver, M. and Kra, R. S., eds., Proceedings of the 12th International 14C Conference. Radiocarbon 28 (2A): 411-416.

Biswas, S. K. (1974). Landscape of Kutch–A morphotectonic analysis. *Indian J. Earth Sci*, *1*(2), 177-190.

Biswas, S. K. (1987). Regional tectonic framework, structure and evolution of the western marginal basins of India. *Tectonophysics*, *135*(4), 307-327.

Biswas, S. K. (1993). Geology of Kutch. *KD Malaviya institute of petroleum exploration, Dehradun*, *450*.

Biswas, S. K. (1999). A review on the evolution of rift basins in India during Gondwana with special reference to western Indian basins and their hydrocarbon prospects. *Proceedings-indian national science academy part A*, *65*(3), 261-284.

Biswas, S. K., & Khattri, K. N. (2002). A geological study of earthquakes in Kutch, Gujarat, India. Journal of Geological Society of India (Online archive from Vol 1 to Vol 78), 60(2), 131-142.

Biswas, S. K. (2005). A review of structure and tectonics of Kutch basin, western India, with special reference to earthquakes. *Current Science*, *88*(10), 1592-1600.

Biswas, S. K. (2016). Tectonic framework, structure and tectonic evolution of Kutch Basin, western India. In *Conference GSI* (pp. 129-150).

Banerjee, S. K., King, J., & Marvin, J. (1981). A rapid method for magnetic granulometry with applications to environmental studies. *Geophysical Research Letters*, *8*(4), 333-336.

Banerji, U. S., Pandey, S., Bhushan, R., & Juyal, N. (2015). Mid-Holocene climate and land–sea interaction along the southern coast of Saurashtra, western India. *Journal of Asian Earth Sciences*, *111*, 428-439.

Basavaiah, N., & Khadkikar, A. S. (2004). Environmental magnetism and its application towards palaeomonsoon reconstruction.

Basavaiah, N., Babu, J. M., Gawali, P. B., Kumar, K. C. V. N., Demudu, G., Prizomwala, S. P., & Rao, K. N. (2015). Late Quaternary environmental and sea level changes from Kolleru Lake, SE India: Inferences from mineral magnetic, geochemical and textural analyses. *Quaternary international*, *371*, 197-208.

Bhattacharya, J. P., & Giosan, L. (2003). Wave-influenced deltas: Geomorphological implications for facies reconstruction. *Sedimentology*, *50*(1), 187-210.

Beierle, B.D., Lamoureux, S.F., Cockburn, J.M.H., Spooner, I., 2002. A new method for visualizing sediment particle size distribution. J. Paleolimnol. 27, 279–283

Bilham, R. (1999). Slip parameters for the Rann of Kachchh, India, 16 June 1819, earthquake, quantified from contemporary accounts, in I. S.

Blott, S. J., & Pye, K. (2001). GRADISTAT: a grain size distribution and statistics package for the analysis of unconsolidated sediments. *Earth surface processes and Landforms*, *26*(11), 1237-1248.

Bloemendal, J., & Demenocal, P. (1989). Evidence for a change in the periodicity of tropical climate cycles at 2.4 Myr from whole-core magnetic susceptibility measurements. *Nature*, *342*(6252), 897.

Bloemendal, J., King, J. W., Hall, F. R., & Doh, S. J. (1992). Rock magnetism of Late Neogene and Pleistocene deep-sea sediments: Relationship to sediment source, diagenetic processes, and sediment lithology. *Journal of Geophysical Research: Solid Earth*, *97*(B4), 4361-4375.

Boar, R. R., & Harper, D. M. (2002). Magnetic susceptibilities of lake sediment and soils on the shoreline of Lake Naivasha, Kenya. In *Lake Naivasha, Kenya* (pp. 81-88). Springer, Dordrecht.

Bonnett, P. J. P., Appleby, P. G., & Oldfield, F. (1988). Radionuclides in coastal and estuarine sediments from Wirral and Lancashire. *Science of the Total Environment*, *70*, 215-236.

Booth, C. A., Walden, J., Neal, A., & Smith, J. P. (2005). Use of mineral magnetic concentration data as a particle size proxy: a case study using marine, estuarine and fluvial sediments in the Carmarthen Bay area, South Wales, UK. *Science of the total environment*, *347*(1-3), 241-253.

Bouma, D. H. (1969). *Kids and Cops: A Study in Mutual Hostility*. Eerdmans.

Burnes, A. (1835). Memoir on the eastern Branch of the River Indus, giving an account of the alterations produced on it by an earthquake, also a theory of the formation of the Runn and some conjectures on the route of Alexander the Great; drawn up in the years 1827–1828, *R. Asiatic Soc. Trans.* **3,** 550–588.

Camoin, G. F., Colonna, M., Montaggioni, L. F., Casanova, J., Faure, G., & Thomassin, B. A. (1997). Holocene sea level changes and reef development in the southwestern Indian Ocean. *Coral Reefs*, *16*(4), 247-259.

Chung, W. Y., & Gao, H. (1995). Source parameters of the Anjar earthquake of July 21, 1956, India, and its seismotectonic implications for the Kutch rift basin. Tectonophysics, 242(3-4), 281-292.

Chen, F. H., Bloemendal, J., Wang, J. M., Li, J. J., & Oldfield, F. (1997). High-resolution multi-proxy climate records from Chinese loess: evidence for rapid climatic changes over the last 75 kyr. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *130*(1-4), 323-335.

Chen, F. H., Qiang, M. R., Feng, Z. D., Wang, H. B., & Bloemendal, J. (2003). Stable East Asian monsoon climate during the Last Interglacial (Eemian) indicated by paleosol S1 in the western part of the Chinese Loess Plateau. *Global and Planetary Change*, *36*(3), 171-179.

Chen, J. A., Wan, G., Zhang, D. D., Zhang, F., & Huang, R. (2004). Environmental records of lacustrine sediments in different time scales: Sediment grain size as an example. *Science in China Series D: Earth Sciences*, *47*(10), 954-960.

Chlachula, J., Evans, M. E., & Rutter, N. W. (1998). A magnetic investigation of a Late Quaternary loess/palaeosol record in Siberia. *Geophysical Journal International*, *132*(1), 128-132.

Chowksey, V., Maurya, D. M., Khonde, N., & Chamyal, L. S. (2010). Tectonic geomorphology and evidence for active tilting of the Bela, Khadir and Bhanjada islands in the seismically active Kachchh palaeorift graben, Western India. *Zeitschrift für Geomorphologie*, *54*(4), 467-490.

Chowksey, V., Maurya, D. M., Joshi, P., Khonde, N., Das, A., & Chamyal, L. S. (2011). Lithostratigraphic development and neotectonic significance of the Quaternary sediments along the Kachchh Mainland Fault (KMF) zone, western India. *Journal of earth system science*, *120*(6), 979-999.

Clifton, J., McDonald, P., Plater, A., & Oldfield, F. (1997). Relationships between radionuclide content and textural properties in Irish Sea intertidal sediments. In *The Interactions Between Sediments and Water* (pp. 209-216). Springer, Dordrecht.

Colin, C., Kissel, C., Blamart, D., & Turpin, L. (1998). Magnetic properties of sediments in the Bay of Bengal and the Andaman Sea: impact of rapid North Atlantic Ocean climatic events on the strength of the Indian monsoon. *Earth and Planetary Science Letters*, *160*(3-4), 623-635.

Conroy, J. L., Overpeck, J. T., Cole, J. E., Shanahan, T. M., & Steinitz-Kannan, M. (2008). Holocene changes in eastern tropical Pacific climate inferred from a Galápagos lake sediment record. *Quaternary Science Reviews*, *27*(11-12), 1166-1180.

Cwynar, L. C. and Watts, W. A. 1989 Accelerator-mass spectrometer ages for late-glacial events at Ballybetagh, Ireland. Quaternary Research 31: 377-380.

Daidu, F., Yuan, W., & Min, L. (2013). Classifications, sedimentary features and facies associations of tidal flats. *Journal of Palaeogeography*, *2*(1), 66-80.

Dalrymple, R. W., Knight, R. J., Zaitlin, B. A., & Middleton, G. V. (1990). Dynamics and facies model of a macrotidal sand-bar complex, Cobequid Bay—Salmon River Estuary (Bay of Fundy). *Sedimentology*, *37*(4), 577-612.

Dalrymple, R. W., Makino, Y., & Zaitlin, B. A. (1991). Temporal and spatial patterns of rhythmite deposition on mud flats in the macrotidal Cobequid Bay-Salmon River estuary, Bay of Fundy, Canada.

Dalrymple, R. W. (1992). Tidal depositional systems. *Facies models response to sea-level change.*, 195-218.

Dearing, J. A., Hay, K. L., Baban, S. M., Huddleston, A. S., Wellington, E. M., & Loveland, P. (1996). Magnetic susceptibility of soil: an evaluation of conflicting theories using a national data set. *Geophysical Journal International*, *127*(3), 728-734.

Deevey, E. S., Jr., Gross, M. S., Hutchinson, G. E. and Kraybill, H. L. 1954 The natural C14 contents of materials from hard-water lakes. Proceedings of the National Academy of Sciences of the USA 40: 285- 288.

Demory, F., Oberhänsli, H., Nowaczyk, N. R., Gottschalk, M., Wirth, R., & Naumann, R. (2005). Detrital input and early diagenesis in sediments from Lake Baikal revealed by rock magnetism. *Global and Planetary Change*, *46*(1-4), 145-166.

Deotare, B. C., Kajale, M. D., Rajaguru, S. N., & Basavaiah, N. (2004). Late Quaternary geomorphology, palynology and magnetic susceptibility of playas in western margin of the Indian Thar Desert.

Desai, B. G. (2016). Ichnological analysis of the Pleistocene Dwarka Formation, Gulf of Kachchh: tracemaker behaviors and reworked traces. *Geodinamica Acta*, *28*(1-2), 18-33.

Patel, S. J., Desai, B. G., Vaidya, A. D., & Shukla, R. (2008). Middle Jurassic trace fossils from Habo Dome, Mainland Kachchh, western India. *JOURNAL-GEOLOGICAL SOCIETY OF INDIA*, *71*(3), 345.

Dessai, D. V., Nayak, G. N., & Basavaiah, N. (2009). Grain size, geochemistry, magnetic susceptibility: proxies in identifying sources and factors controlling distribution of metals in a tropical estuary, India. *Estuarine, Coastal and Shelf Science*, *85*(2), 307-318.

Dixit, Y., Hodell, D. A., & Petrie, C. A. (2014). Abrupt weakening of the summer monsoon in northwest India~ 4100 yr ago. *Geology*, *42*(4), 339-342.

Dutta, K., Bhushan, R., & Somayajulu, B. (2001). ΔR correction values for the northern Indian Ocean. *Radiocarbon*, *43*(2A), 483-488.

Enzel, Y., Ely, L. L., Mishra, S., Ramesh, R., Amit, R., Lazar, B., ... & Sandler, A. (1999). High-resolution Holocene environmental changes in the Thar Desert, northwestern India. *Science*, *284*(5411), 125-128.

Evans, M. E., & Heller, F. (2001). Magnetism of loess/palaeosol sequences: recent developments. *Earth-Science Reviews*, *54*(1-3), 129-144.

Evan, M. E., & Heller, F. H. (2003). *Environmental Magnetism*.

Faegri K and Iversen J (1964) Text Book of Pollen Analysis. Waltham, MA: Chronica Botanica Co.

Fairbridge, R. W. (1961). Eustatic changes in sea level. *Physics and Chemistry of the Earth*, *4*, 99-185.

Fowler, A. J., Gillespie, R. and Hedges, R. E. M. 1986a Radiocarbon dating of sediments by accelerator mass spectrometry. Physics of the Earth and Planetary Interiors 44: 15-20.

Gale, S.J., Hoare, P.G., 1991. Quaternary sediments. Belhaven Press, London. 323 pp.

Gasse F, Arnold M, Frontes JC et al. (1991) A 13,000-year climate record from western Tibet. Nature 353: 742–745.

Geiss, C. E., & Banerjee, S. K. (1997). A multi-parameter rock magnetic record of the last glacial–interglacial paleoclimate from south-central Illinois, USA. *Earth and Planetary Science Letters*, *152*(1-4), 203-216.

Ghose, B., Kar, A., & Husain, Z. (1979). The lost courses of the Saraswati River in the Great Indian Desert: New evidence from landsat imagery. *Geographical Journal*, 446-451.

Glennie, K. W., & Evans, G. (1976). A reconnaissance of the Great Rann of Kachchh, India. *Sedimentology*, *23*, 625-647.

Giosan, L., Clift, P. D., Macklin, M. G., Fuller, D. Q., Constantinescu, S., Durcan, J. A., ... & Adhikari, R. (2012). Fluvial landscapes of the Harappan civilization. *Proceedings of the National Academy of Sciences*, *109*(26), E1688-E1694.en

Gupta, A. K., Anderson, D. M., & Overpeck, J. T. (2003). Abrupt changes in the Asian southwest monsoon during the Holocene and their links to the North Atlantic Ocean. *Nature*, *421*(6921), 354.

Hashimi, N. H., Nigam, R., Nair, R. R., & Rajagopalan, G. (1999). Holocene Sea Level Fluctuation in Western Indian Continental Margin: An Update. *MEMOIRS-GEOLOGICAL SOCIETY OF INDIA*, 297-302.

Haug, G. H., Hughen, K. A., Sigman, D. M., Peterson, L. C., & Rohl, U. (2001). Southward migration of the intertropical convergence zone through the Holocene. *Science*, *293*(5533), 1304-1308.

Heller, F., & Tung-sheng, L. (1986). Palaeoclimatic and sedimentary history from magnetic susceptibility of loess in China. *Geophysical Research Letters*, *13*(11), 1169-1172.

Hesse, P. P. (1994). Evidence for bacterial palaeoecological origin of mineral magnetic cycles in oxic and sub-oxic Tasman Sea sediments. *Marine Geology*, *117*(1-4), 1-17.

Hori, K., Saito, Y., Zhao, Q., Cheng, X., Wang, P., Sato, Y., & Li, C. (2001). Sedimentary facies and Holocene progradation rates of the Changjiang (Yangtze) delta, China. *Geomorphology*, *41*(2-3), 233-248.

Hutchinson, S. M., & Prandle, D. (1994). Siltation in the saltmarsh of the Dee Estuary derived from 137Cs analysis of shallow cores. *Estuarine, Coastal and Shelf Science*, *38*(5), 471-478.

Jelinowska, A., Tucholka, P., Gasse, F., & Fontes, J. C. (1995). Mineral magnetic record of environment in late Pleistocene and Holocene sediments, Lake Manas, Xinjiang, China. *Geophysical Research Letters*, *22*(8), 953-956.

Joseph, L. H., Rea, D. K., & Van der Pluijm, B. A. (1998). Use of grain size and magnetic fabric analyses to distinguish among depositional environments. *Paleoceanography*, *13*(5), 491-501.

Juyal, K. P. (2006). Foraminiferal biostratigraphy of the Early Cretaceous Hundiri Formation, lower Shyok area, eastern Karakoram, India. *Current Science*, 1096-1101.

Juyal, N., Sundriyal, Y., Rana, N., Chaudhary, S., & Singhvi, A. K. (2010). Late Quaternary fluvial aggradation and incision in the monsoon-dominated Alaknanda valley, Central Himalaya, Uttrakhand, India. *Journal of Quaternary Science*, *25*(8), 1293-1304.

Kar, A., 1995. Geomorphology of the Western India. *Geological Society of India Memoir*, Vol. 32, pp. 168- 190.

Khonde, N. N. (2014). Holocene environments and geomorphic evolution of the great rann of Kachchh western India.

Khonde, N. N., Maurya, D. M., & Chamyal, L. S. (2017). Late Pleistocene–Holocene clay mineral record from the Great Rann of Kachchh basin, Western India: Implications for palaeoenvironments and sediment sources. *Quaternary international*, *443*, 86-98.

King, J. W., Banerjee, S. K., & Marvin, J. (1983). A new rock-magnetic approach to selecting sediments for geomagnetic paleointensity studies: Application to paleointensity for the last 4000 years. *Journal of Geophysical Research: Solid Earth*, *88*(B7), 5911-5921.

King, J. W., & Channell, J. E. (1991). Sedimentary magnetism, environmental magnetism, and magnetostratigraphy. *Reviews of Geophysics*, *29*(S1), 358-370.

Koshal, v.n. (1984) Differentiation of Rhaetic sediments in the subsurface of Kutch based on Paynofossils. Pet. Asia. Jour., v.7 (10), pp. 102-105.

Kukla, G., Heller, F., Ming, L. X., Chun, X. T., Sheng, L. T., & Sheng, A. Z. (1988). Pleistocene climates in China dated by magnetic susceptibility. *Geology*, *16*(9), 811-814.

Kumar, A., Maurya, D. M., Khonde, N., Phartiyal, B., Arif, M., Giosan, L., & Chamyal, L. S. (2021). Holocene paleoenvironmental changes in the marginal marine basin of Great Rann of Kachchh, western India: Insights from sedimentological and mineral magnetic studies on a∼ 60 m long core. *Quaternary International*, *599*, 138-147.

Langereis, C. G., Dekkers, M. J., De Lange, G. J., Paterne, M., & Van Santvoort, P. J. M. (1997). Magnetostratigraphy and astronomical calibration of the last 1.1 Myr from an eastern Mediterranean piston core and dating of short events in the Brunhes. *Geophysical Journal International*, *129*(1), 75-94.

Lario, J., Zazo, C., Plater, A. J., Goy, J. L., Dabrio, C. J., Borja, F., ... & Luque, L. (2001). Particle size and magnetic properties of Holocene estuarine deposits from the Doñana National Park (SW Iberia): evidence of gradual and abrupt coastal sedimentation. *Zeitschrift fur Geomorphologie*, *45*(1), 33-54.

Laskar AH, Yadava MG, Sharma N et al. (2013) Late-Holocene climate in the Lower Narmada valley, Gujarat, western India, inferred using sedimentary carbon and oxygen isotope ratios. *The Holocene* 23(8): 1115‑1122.

Lean, C. M. B., & McCave, I. N. (1998). Glacial to interglacial mineral magnetic and palaeoceanographic changes at Chatham Rise, SW Pacific Ocean. *Earth and Planetary Science Letters*, *163*(1-4), 247-260.

Lepland, A., & Stevens, R. L. (1996). Mineral magnetic and textural interpretations of sedimentation in the Skagerrak, eastern North Sea. *Marine Geology*, *135*(1-4), 51-64.

Leventer, A., Domack, E. W., Ishman, S. E., Brachfeld, S., McClennen, C. E., & Manley, P. (1996). Productivity cycles of 200–300 years in the Antarctic Peninsula region:

understanding linkages among the sun, atmosphere, oceans, sea ice, and biota. *Geological Society of America Bulletin*, *108*(12), 1626-1644.

Lewis, S. E., Sloss, C. R., Murray-Wallace, C. V., Woodroffe, C. D., & Smithers, S. G. (2013). Post-glacial sea-level changes around the Australian margin: a review. *Quaternary Science Reviews*, *74*, 115-138.

Lister, G., Kelts, K., Schmid, R., Bonani, G., Hofmann, H., Morenzoni, E., Nessi, M., Suter, M. and Wolfli, W. 1984 Correlation of the paleoclimatic record in lacustrine sediment sequences: 14C dating by AMS. In Wolfli, W., Polach, H. A. and Anderson, H. H., eds., Proceedings of the 3rd International Symposium on Accelerator Mass Spectrometry. Nuclear Instruments and Methods B5: 389-393

Lowe, J. J., Lowe, S., Fowler, A. J., Hedges, R. E. M. and Austin, T. J. F 1988 Comparison of accelerator and radiometric radiocarbon measurements obtained from Late Devensian Late glacial lake sediments from Llyn Gwernan, North Wales, UK. Boreas 17: 355- 369.

Maher, B. A., & Thompson, R. (1992). Paleoclimatic significance of the mineral magnetic record of the Chinese loess and paleosols. *Quaternary Research*, *37*(2), 155-170.

Maher, B. A., & Thompson, R. (1999). Palaeomonsoons I: the magnetic record of palaeoclimate in the terrestrial loess and palaeosol sequences. *Quaternary climates, environments and magnetism*, 81-125.

Maher, B. A. (1988). Magnetic properties of some synthetic sub-micron magnetites. *Geophysical Journal International*, *94*(1), 83-96.

Maher, B. A. (1998). Magnetic properties of modern soils and Quaternary loessic paleosols: paleoclimatic implications. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *137*(1-2), 25-54.

Malik, J. N., Sohoni, P. S., Karanth, R. V. and Merh, S. S. 1999. Modern and historic seismicity of Kachchh Peninsula, western India. *Journal of the Geological Society of India*, *54*(5), 545-550.

Merh, S. S. (2005). The Great Rann of Kachchh: Perceptions of a field geologist. *J. Geol. Soc. India*, *65*, 9-25.

Maher, K. (2011). The role of fluid residence time and topographic scales in determining chemical fluxes from landscapes. *Earth and Planetary Science Letters*, *312*(1-2), 48-58.

Makwana, N., Prizomwala, S. P., Chauhan, G., Phartiyal, B., & Thakkar, M. G. (2019). Late Holocene palaeo-environmental change in the Banni Plains, Kachchh, Western India. *Quaternary International*, *507*, 197-205.

Maurya, D. M., Goyal, B., Patidar, A. K., Mulchandani, N., Thakkar, M. G., & Chamyal, L. S. (2006). Ground Penetrating Radar imaging of two large sand blow craters related to the 2001 Bhuj earthquake, Kachchh, Western India. *Journal of applied geophysics*, *60*(2), 142-152.

Maurya, D. M., Thakkar, M. G., Patidar, A. K., Bhandari, S., Goyal, B., & Chamyal, L. S. (2008). Late Quaternary geomorphic evolution of the coastal zone of Kachchh, western India. *Journal of Coastal Research*, 746-758.

Maurya, D. M., Thakkar, M. G., Khonde, N., & Chamyal, L. S. (2009). Geomorphology of the Little Rann of Kachchh, W. India: Implication for basin architecture and Holocene palaeo-oceanographic conditions. *Zeitschrift für Geomorphologie*, *53*(1), 69-80.

Maurya, D. M., Khonde, N., Das, A., Chowksey, V., & Chamyal, L. S. (2013). Subsurface sediment characteristics of the Great Rann of Kachchh, western India based on preliminary evaluation of textural analysis of two continuous sediment cores. *Current Science*, 1071-1077.

Malik, J. N., Sohoni, P. S., Karanth, R. V., & Merh, S. S. (1999). Modern and historic seismicity of Kachchh Peninsula, western India. *Journal of the Geological Society of India*, *54*(5), 545-550.

MacDonald, G. M., Beukens, R. P., Kieser, W. E. and Vitt, D. H. 1987 Comparative radiocarbon dating of terrestrial plant macrofossils and aquatic moss from the 'ice-free corridor' of western Canada. Geology 15: 837-840.

Misra, V. N., Lal, B. B., & Gupta, S. P. (1984). Climate, a factor in the rise and fall of the Indus civilization: Evidence from Rajasthan and beyond. In *Environmental Issues in India: A Reader* (pp. 461-490). Dorling Kindersley (India) Pvt. Ltd New Delhi, India.

Mook, W. G. and van de Plassche, 0. 1986 Radiocarbon dating. In van de Plassche, 0., ed., Sea-level Research: A Manual for the Collection and Evaluation of Data. Norwich, England, Geo Books: 525- 560.

Mykleby, P. M., Snyder, P. K., & Twine, T. E. (2017). Quantifying the trade-off between carbon sequestration and albedo in midlatitude and high-latitude North American forests. *Geophysical Research Letters*, *44*(5), 2493-2501.

Nawrocki, J., WØJCIK, A., & Bogucki, A. (1996). The magnetic susceptibility record in the Polish and western Ukrainian loess-palaeosol sequences conditioned by palaeoclimate. *Boreas*, *25*(3), 161-169.

Nelson, R. E., Carter, L. D. and Robinson, S. W. 1988 Anomalous radiocarbon ages from a Holocene detrital organic lens in Alaska and their implications for radiocarbon dating and paleoenvironmental recon- structions in the Arctic. Quaternary Research 29: 66-71.

Nie, J., Song, Y., King, J. W., Fang, X., & Heil, C. (2010). HIRM variations in the Chinese red-clay sequence: insights into pedogenesis in the dust source area. *Journal of Asian Earth Sciences*, *38*(3-4), 96-104.

Oldfield, F. (1977). Lakes and their drainage basins as units of sediment-based ecological study. *Progress in Physical Geography*, *1*(3), 460-504.

Oldfield, F., Richardson, N., Appleby, P. G., & Yu, L. (1993). 241Am and 137Cs activity in fine grained saltmarsh sediments from parts of the NE Irish Sea shoreline. *Journal of Environmental Radioactivity*, *19*(1), 1-24.

Oldfield, F., & Yu, L. (1994). The influence of particle size variations on the magnetic properties of sediments from the north-eastern Irish Sea. *Sedimentology*, *41*(6), 1093-1108.

Oldham, C. F. (1893). Art. III The Saraswati and the Lost River of the Indian Desert. *Journal of the Royal Asiatic Society*, *25*(1), 49-76.

Ouyang, T., Tian, C., Zhu, Z., Qiu, Y., Appel, E., & Fu, S. (2014). Magnetic characteristics and its environmental implications of core YSJD-86GC sediments from the southern South China Sea. *Chinese science bulletin*, *59*(25), 3176-3187.

Overpeck, J., Anderson, D., Trumbore, S., & Prell, W. (1996). The southwest Indian Monsoon over the last 18 000 years. *Climate Dynamics*, *12*(3), 213-225.

Padmalal, A., Khonde, N., Maurya, D. M., Shaikh, M., Kumar, A., Vanik, N., & Chamyal, L. S. (2019). Geomorphic characteristics and morphologic dating of the Allah Bund Fault scarp, Great Rann of Kachchh, Western India. In *Tectonics and Structural Geology: Indian Context* (pp. 55-74). Springer, Cham.

Pant, R. K., & Juyal, N. (1993). Neotectonism along the Saurashtra coast: new evidences. *Current Science*, 351-353.

Patidar, A. K., Maurya, D. M., Thakkar, M. G., & Chamyal, L. S. (2007). Fluvial geomorphology and neotectonic activity based on field and GPR data, Katrol hill range, Kachchh, western India. *Quaternary International*, *159*(1), 74-92.

Patidar AK (2010) Neotectonic studies in southern mainland Kachchh using GPR with special reference to Katrol Hill Fault, Ph.D. thesis, The M S University of Baroda, Vadodara, India, 163p. Available online at www.shodhganga.com

Peters, C., & Dekkers, M. J. (2003). Selected room temperature magnetic parameters as a function of mineralogy, concentration and grain size. *Physics and Chemistry of the Earth, Parts A/B/C*, *28*(16-19), 659-667

Pethick, J. S. (1984). *An introduction to coastal geomorphology*. Dept. of Geography, Univ. of Hull.

Phadtare, N. R. (2000). Sharp decrease in summer monsoon strength 4000–3500 cal yr BP in the Central Higher Himalaya of India based on pollen evidence from alpine peat. *Quaternary Research*, *53*(1), 122-129.

Patidar, A. K., Maurya, D. M., Thakkar, M. G., & Chamyal, L. S. (2007). Fluvial geomorphology and neotectonic activity based on field and GPR data, Katrol hill range, Kachchh, western India. *Quaternary International*, *159*(1), 74-92.

Phartiyal, B., Appel, E., Blaha, U., Hoffmann, V., & Kotlia, B. S. (2003). Palaeoclimatic significance of magnetic properties from Late Quaternary lacustrine sediments at Pithoragarh, Kumaun Lesser Himalaya, India. *Quaternary International*, *108*(1), 51-62.

Pillai, A. A., Anoop, A., Prasad, V., Manoj, M. C., Varghese, S., Sankaran, M., & Ratnam, J. (2018). Multi-proxy evidence for an arid shift in the climate and vegetation of the Banni grasslands of western India during the mid-to late-Holocene. *The Holocene*, *28*(7), 1057-1070.

Porter, S. C., & Zhisheng, A. (1995). Correlation between climate events in the North Atlantic and China during the last glaciation. *Nature*, *375*(6529), 305.

Prasad, S., Kusumgar, S., & Gupta, S. K. (1997). A mid to late Holocene record of palaeoclimatic changes from Nal Sarovar: a palaeodesert margin lake in western India. *Journal of Quaternary Science: Published for the Quaternary Research Association*, *12*(2), 153-159.

Prasad, S., & Enzel, Y. (2006). Holocene paleoclimates of India. *Quaternary Research*, *66*(3), 442-453.

Prasad, V., Farooqui, A., Sharma, A., Phartiyal, B., Chakraborty, S., Bhandari, S., & Singh, A. (2014). Mid–late Holocene monsoonal variations from mainland Gujarat, India: A multi-proxy study for evaluating climate culture relationship. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *397*, 38-51.

Prasad, S., Anoop, A., Riedel, N., Sarkar, S., Menzel, P., Basavaiah, N., ... & Stebich, M. (2014). Prolonged monsoon droughts and links to Indo-Pacific warm pool: A Holocene record from Lonar Lake, central India. *Earth and Planetary Science Letters*, *391*, 171-182.

Quamar MF (2018) Late Holocene vegetation vis-á-vis climate change influenced by the ISM variability from the Western Himalaya Himalaya, India. Grana.

Quamar MF and Bera SK (2017) Pollen records related to vegetation and climate change from northern Chhattisgarh, central India during the Late Quaternary. Palynology 41(1): 17–23.

Quamar MF and Chauhan MS (2012) Late Quaternary vegetation, climate as well as lake-level changes and human occupation from Nitaya area in Hoshangabad District, southwestern Madhya Pradesh (India), based on pollen evidence. Quaternary International 263: 104–113.

Quamar MF, Nawaz Ali S, Nautiyal CM et al. (2017) Vegetation and climate reconstruction based on a ~4 ka pollen record from north Chhattisgarh, central India. Palynology 41(4): 504–515.

Quamar MF and Srivastava J (2013) Modern pollen rain in relation to vegetation in Jammu, Jammu and Kashmir, India. Journal of Palynology 49: 19–30.

Quamar MF, Bera SK. 2014. Surface pollen and its relationship with modern vegetation in tropical deciduous forests of southwestern Madhya Pradesh, India: a review. Palynology. 38(1):147–161.

Quamar MF. 2017. A review on the modern pollen and vegetation relationship studies from eastern Madhya Pradesh, central India. Journal of Geosciences Research (Formerly Gondwana Geological Magazine). 2(1):17–28.

Rajendran, C. P., & Rajendran, K. (2001). Characteristics of deformation and past seismicity associated with the 1819 Kutch earthquake, northwestern India. *Bulletin of the Seismological Society of America*, *91*(3), 407-426.

Rajendran, K., Rajendran, C. P., Thakkar, M., & Tuttle, M. P. (2001). The 2001 Kutch (Bhuj) earthquake: Coseismic surface features and their significance. *Current Science*, 1397-1405.

Rajganapathi, V. C., Jitheshkumar, N., Sundararajan, M., Bhat, K. H., & Velusamy, S. (2013). Grain size analysis and characterization of sedimentary environment along Thiruchendur coast, Tamilnadu, India. *Arabian Journal of Geosciences*, *6*(12), 4717-4728.

Reading, H. G. (Ed.). (2009). *Sedimentary environments: processes, facies and stratigraphy*. John Wiley & Sons.

Reimer, P. J., Baillie, M. G., Bard, E., Bayliss, A., Beck, J. W., Blackwell, P. G., ... & Friedrich, M. (2009). IntCal09 and Marine09 radiocarbon age calibration curves, 0–50,000 years cal BP. *Radiocarbon*, *51*(4), 1111-1150.

Reineck, H. E. (1975). German North sea tidal flats. In *Tidal deposits* (pp. 5-12). Springer, Berlin, Heidelberg.

Reineck, H. E., & Singh, I. B. (1980). Tidal flats. In *Depositional sedimentary environments* (pp. 430-456). Springer, Berlin, Heidelberg.

Robinson, S. G. (1990). Application for whole-core magnetic susceptibility measurements of deep-sea sediments: Leg 115 results. In *Proc. ODP, Sci. Results* (Vol. 115, pp. 737-771). College Station.

Robinson, S. G., & McCave, I. N. (1994). Orbital forcing of bottom-current enhanced sedimentation on Feni Drift, NE Atlantic, during the mid Pleistocene. *Paleoceanography*, *9*(6), 943-972.

Robinson, S. G., Maslin, M. A., & McCave, I. N. (1995). Magnetic susceptibility variations in Upper Pleistocene deep-sea sediments of the NE Atlantic: Implications for ice rafting and paleocirculation at the Last Glacial Maximum. *Paleoceanography*, *10*(2), 221-250.

Rosalie David, A., Edwards, H. G. M., Farwell, D. W., & De Faria, D. L. A. (2001). Raman spectroscopic analysis of ancient Egyptian pigments. *Archaeometry*, *43*(4), 461-473.

Rao, V. P., & Wagle, B. G. (1997). Geomorphology and surficial geology of the western continental shelf and slope of India: A review. *Current Science*, 330-350.

Roy, B., and S. S. Merh (1982). The Great Rann of Kutch: intriguing Quaternary terrain, in *Recent Researches in Geology,* Series 9, Hindustan Publication Company, Delhi, 100–108.

Roy, P. D., Nagar, Y. C., Juyal, N., Smykatz-Kloss, W., & Singhvi, A. K. (2009). Geochemical signatures of Late Holocene paleo-hydrological changes from Phulera and Pokharan saline playas near the eastern and western margins of the Thar Desert, India. *Journal of Asian Earth Sciences*, *34*(3), 275-286.

Roy, P. D., & Singhvi, A. K. (2016). Climate variation in the Thar Desert since the Last Glacial Maximum and evaluation of the Indian monsoon. *Tip*, *19*(1), 32-44.

Sandeep, K., Shankar, R., Warrier, A. K., Yadava, M. G., Ramesh, R., Jani, R. A., & Xuefeng, L. (2017). A multi-proxy lake sediment record of Indian summer monsoon variability during the Holocene in southern India. *Palaeogeography, palaeoclimatology, palaeoecology*, *476*, 1-14.

Sangode, S. J., & Bloemendal, J. (2004). Pedogenic transformation of magnetic minerals in Pliocene–Pleistocene palaeosols of the Siwalik Group, NW Himalaya, India. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *212*(1-2), 95-118.

Sangode, S. J., Sinha, R., Phartiyal, B., Chauhan, O. S., Mazari, R. K., Bagati, T. N., ... & Bhattacharjee, P. (2007). Environmental magnetic studies on some Quaternary sediments of varied depositional settings in the Indian sub-continent. *Quaternary International*, *159*(1), 102-118.

Schoch, H., Bruns, M., Münnich, K. O., & Münnich, M. (1980). A multi-counter system for high precision carbon-14 measurements. *Radiocarbon*, *22*(2), 442-447.

Schoute, J. F. Th., Mook, W. G. and Streurman, H. J. 1983 Radiocarbon dating of vegetation horizons: methods and preliminary results. In Mook, W. G. and Waterbolk, H. T., eds., Proceedings of the 1st International Symposium 14C and Archaeology. PACT 8: 295-311.

Shaikh, M. A., Maurya, D. M., Mukherjee, S., Vanik, N. P., Padmalal, A., & Chamyal, L. S. (2020). Tectonic evolution of the intra-uplift Vigodi-Gugriana-Khirasra-Netra Fault System in the seismically active Kachchh rift basin, India: Implications for the western continental margin of the Indian plate. *Journal of Structural Geology*, *140*, 104124.

Shankar, R., Prabhu, C. N., Warrier, A. K., Kumar, G. V., & Sekar, B. (2006). A multi-decadal rock magnetic record of monsoonal variations during the past 3,700 years from a tropical Indian tank. *Journal-Geological Society of India*, *68*(3), 447.

Sharma, S., Chauhan, G., Shukla, A. D., Nambiar, R., Bhushan, R., Desai, B. G., ... & Juyal, N. (2021). Causes and implications of Mid-to Late Holocene relative sea-level change in the Gulf of Kachchh, western India. *Quaternary Research*, *100*, 98-121.

Shukla, U. K., Singh, I. B., Srivastava, P., & Singh, D. S. (1999). Paleocurrent patterns in braid-bar and point-bar deposits; examples from the Ganga River, India. *Journal of Sedimentary Research*, *69*(5), 992-1002.

Singh, G., Joshi, R. D., Chopra, S. K., & Singh, A. B. (1974). Late Quaternary history of vegetation and climate of the Rajasthan Desert, India. *Philosophical Transactions of the Royal Society of London. B, Biological Sciences*, *267*(889), 467-501.

Singh, G., Wasson, R. J., & Agrawal, D. P. (1990). Vegetational and seasonal climatic changes since the last full glacial in the Thar Desert, northwestern India. *Review of Palaeobotany and Palynology*, *64*(1-4), 351-358.

Sinha, R., Smykatz-Kloss, W., Stüben, D., Harrison, S. P., Berner, Z., & Kramar, U. (2006). Late Quaternary palaeoclimatic reconstruction from the lacustrine sediments of the Sambhar playa core, Thar Desert margin, India. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *233*(3-4), 252-270.

Sirocko, F., Sarnthein, M., Erlenkeuser, H., Lange, H., Arnold, M., & Duplessy, J. C. (1993). Century-scale events in monsoonal climate over the past 24,000 years. *Nature*, *364*(6435), 322.

Saito, S., & Yamamoto, Y. (2000). Recent advances in the transition-metal-catalyzed regioselective approaches to polysubstituted benzene derivatives. *Chemical Reviews*, *100*(8), 2901-2916.

Srivastava, P., Sangode, S. J., Parmar, N., Meshram, D. C., Jadhav, P., & Singhvi, A. K. (2016). Mineral magnetic characteristics of the late Quaternary coastal red sands of Bheemuni, East Coast (India). *Journal of Applied Geophysics*, *134*, 77-88.

Snowball, I. F. (1993). Geochemical control of magnetite dissolution in subarctic lake sediments and the implications for environmental magnetism. *Journal of Quaternary Science*, *8*(4), 339-346.

Stein, A. (1942). A survey of ancient sites along the" lost" Sarasvati River. *The Geographical Journal*, *99*(4), 173-182.

Sun XJ and Wu YS (1987) Distribution and quantity of sporopollen and algae in surface sediments of the Dianchi Lake, Yunnan province. Marine Geology & Quaternary Geology 7(4): 81–92 (in Chinese with English abstract).

Su, N., Yang, S. Y., Wang, X. D., Bi, L., & Yang, C. F. (2015). Magnetic parameters indicate the intensity of chemical weathering developed on igneous rocks in China. *Catena*, *133*, 328-341.

Tanabe, R., & Fukunaga, A. (2013, June). Success-history based parameter adaptation for differential evolution. In *2013 IEEE congress on evolutionary computation* (pp. 71-78). IEEE.

Tarduno, J. A. (1994). Temporal trends of magnetic dissolution in the pelagic realm: Gauging paleoproductivity?. *Earth and Planetary Science Letters*, *123*(1-3), 39-48.

Teunissen, D. 1986 Palynological investigation of some residual gullies in the Upper Betuwe (the Netherlands). Berichten van de Rijksdienst voor het Oudheidkundig Bodemonderzoek 36: 7-24.

Thakkar, M. G., Ngangom, M., Thakker, P. S., & Juyal, N. (2012). Terrain response to the 1819 Allah Bund earthquake in western Great Rann of Kachchh, Gujarat, India. *Current Science*, 208-212.

Thamban, M., Rao, V. P., & Schneider, R. R. (2002). Reconstruction of late Quaternary monsoon oscillations based on clay mineral proxies using sediment cores from the western margin of India. *Marine Geology*, *186*(3-4), 527-539.

Thompson, R., & Oldfield, F. (1986). 1986: Environmental magnetism. London: Allen and Unwin.

Thouveny, N., de Beaulieu, J. L., Bonifay, E., Creer, K. M., Guiot, J., Icole, M., ... & Williamson, D. (1994). Climate variations in Europe over the past 140 kyr deduced from rock magnetism. *Nature*, *371*(6497), 503.

Tornqvist, T. E., de Jong, A. F. M. and van der Borg, K. 1990 Comparison of AMS 14C ages of organic deposits and macrofossils: a progress report. In Yiou, F. and Raisbeck, G. M., eds., Proceedings of the 5th International Conference on Accelerator Mass Spectrometry. Nuclear Instruments and Methods B52: 442-445.

Tyagi, A. K., Shukla, A. D., Bhushan, R., Thakker, P. S., Thakkar, M. G., & Juyal, N. (2012). Mid-Holocene sedimentation and landscape evolution in the western Great Rann of Kachchh, India. *Geomorphology*, *151*, 89-98.

Verosub, K. L., & Roberts, A. P. (1995). Environmental magnetism: past, present, and future. *Journal of Geophysical Research: Solid Earth*, *100*(B2), 2175-2192.

Vogel, J. S., Briskin, M., Nelson, D. E. and Southon, J. R. 1989 Ultra-small carbon samples and the dating of sediments. In Long, A. and Kra, R. S., eds., Proceedings of the 13th International 14C Conference. Radiocarbon 31(3): 601-609.

Walden, J. (Ed.). (1999). *Environmental magnetism: a practical guide*. Quaternary Research Association.

Wang, J., Jiang, Z., & Zhang, Y. (2015). Subsurface lacustrine storm-seiche depositional model in the Eocene Lijin Sag of the Bohai Bay Basin, East China. *Sedimentary Geology*, *328*, 55-72.

Wang, L., Hu, S., Yu, G., Ma, M., & Liao, M. (2017). Comparative study on magnetic minerals of tidal flat deposits from different sediment sources in Jiangsu coast, Eastern China. *Studia Geophysica et Geodaetica*, *61*(4), 754-771.

Warrier, A. K., Sandeep, K., Harshavardhana, B. G., Shankar, R., Pappu, S., Akhilesh, K., ... & Gunnell, Y. (2011). A rock magnetic record of Pleistocene rainfall variations at the Palaeolithic site of Attirampakkam, Southeastern India. *Journal of Archaeological Science*, *38*(12), 3681-3693.

Williamson, D., Jelinowska, A., Kissel, C., Tucholka, P., Gibert, E., Gasse, F., ... & Wieckowski, K. (1998). Mineral-magnetic proxies of erosion/oxidation cycles in tropical maar-lake sediments (Lake Tritrivakely, Madagascar): paleoenvironmental implications. *Earth and Planetary Science Letters*, *155*(3-4), 205-219.

Wright, E. K. (1987). Stratification and paleocirculation of the late Cretaceous western interior seaway of North America. *Geological Society of America Bulletin*, *99*(4), 480-490.

Xie, S., Dearing, J. A., Bloemendal, J., & Boyle, J. F. (1999). Association between the organic matter content and magnetic properties in street dust, Liverpool, UK. *Science of the Total Environment*, *241*(1-3), 205-214.

Xie, S., Dearing, J. A., & Bloemendal, J. (2000). The organic matter content of street dust in Liverpool, UK, and its association with dust magnetic properties. *Atmospheric Environment*, *34*(2), 269-275.

Yim, W. S., Huang, G., & Chan, L. S. (2004). Magnetic susceptibility study of Late Quaternary inner continental shelf sediments in the Hong Kong SAR, China. *Quaternary International*, *117*(1), 41-54.

Zhang, W., Yu, L., & Hutchinson, S. M. (2001). Diagenesis of magnetic minerals in the intertidal sediments of the Yangtze Estuary, China, and its environmental significance. *Science of the Total Environment*, *266*(1-3), 169-175.

Zhang, W., & Yu, L. (2003). Magnetic properties of tidal flat sediments of the Yangtze Estuary and its relationship with particle size. *Science in China Series D: Earth Sciences*, *46*(9), 954-966.

Zhang, W., Yu, L., Lu, M., Zheng, X., & Shi, Y. (2007). Magnetic properties and geochemistry of the Xiashu Loess in the present subtropical area of China, and their implications for pedogenic intensity. *Earth and Planetary Science Letters*, *260*(1-2), 86-97.

Zhang, W., Appel, E., Fang, X., Yan, M., Song, C., & Cao, L. (2012). Paleoclimatic implications of magnetic susceptibility in Late Pliocene–Quaternary sediments from deep drilling core SG-1 in the western Qaidam Basin (NE Tibetan Plateau). *Journal of Geophysical Research: Solid Earth*, *117*(B6).

Zhou, X., Sun, L., Huang, W., Liu, Y., Jia, N., & Cheng, W. (2014). Relationship between magnetic susceptibility and grain size of sediments in the China Seas and its implications. *Continental Shelf Research*, *72*, 131-137.