CURRICULUM VITAE

Liviu Giosan

Senior Scientist Emeritus

Geology and Geophysics
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Interests

Climate, Landscapes, Civilizations

Integrative approaches on sources, erosion, transport, and deposition of sediments in fluvial, deltaic, continental margins and the deep ocean settings

Experience

On Land: organized, participated or supervised coring/drilling/geophysical expeditions in **Africa, Asia, Europe, North and South America**: GPR survey/coring Mackenzie delta, Canada; drilling Tigris-Euphrates delta, Iraq; coring Yukon delta, USA; seismics, resistivity, drilling Okavango delta, Botswana; drilling Irrawaddy delta, Myanmar; drilling Indus delta, Pakistan; multibeam/drilling Danube delta, Romania; coring Mississippi delta, USA; drilling Ebro delta, Spain; drilling Black Sea infilled estuaries, Bulgaria.

At Sea: organized, participated or supervised coring/drilling/geophysical expeditions in the **Black Sea, the Atlantic, Pacific and Indian oceans**: stratigraphic correlator in IODP Leg 353, Bay of Bengal; physical properties specialist in IODP Leg 346, Sea of Japan; lead scientist, coring on Indus shelf, Arabian Sea (*R/V Pelagia*); lead sedimentologist in India National Gas Hydrate Program expedition, Indian Ocean; lead scientist, coring in Panama Basin (*R/V Knorr*); lead scientist, coring on New England continental slope (*R/V Oceanus*); physical properties specialist in ODP Leg 202, Southeast Pacific; physical properties specialist in ODP Leg 172, North Atlantic.

In Lab: organized and led micro-XRF scanning lab at WHOI; collected and/or interpreted sedimentological (visual, imaging, X-radiography, diffuse reflectometry), petrophysical (multi-sensor core loggers) and geochemical data (inorganic, organic and isotopic); integrated geophysical data (seismics, ground penetrating radar, resistivity).

Consulting. Gas hydrate sedimentology (Reliance Industries), Bay of Bengal geology; Indian Ocean (Naval Oceanographic Office); Gulf of Mexico coastal evolution (US Army Corps of Engineers); deltas (NASA).

Education

Bucharest University	Bucharest, Romania	Geology	Dipl.	1993
SUNY Stony Brook	New York, USA	Marine Env. Sci.	M.S.	1995
SUNY Stony Brook	New York, USA	Marine & Atm. Sci.	PhD	2001

Professional Experience

2024	Senior Scientist Emeritus	WHOI
2024	Senior Scientist	WHOI
2016-present	Visiting Professor	Bucharest University, Romania
2013-2024	Associate Scientist with Tenure	WHOI
2007-2013	Associate Scientist	WHOI
2003-2007	Assistant Scientist	WHOI
2003	Postdoctoral Investigator	WHOI
2001-2003	CICOR Postdoctoral Scholar	WHOI
	Sponsors: Lloyd Keigwin & Bill Curry	

Professional Societies

American Geophysical Union; Geological Society of America; European Geosciences Union

Boards and Committees

US Advisory Committee for Scientific Ocean Drilling (2015-2017)
Board of Mississippi Delta Expert Panel on Diversions Planning & Implementation (2013-2016)

Honors

2021	**G.K. Gilbert Award** for Excellence in Geomorphological Research of the American Association of Geographers for: Munoz, Giosan, et al., 2018, Nature (journal): "Climatic control of Mississippi River flood hazard amplified by river engineering" (*Munoz – postdoctoral scholar mentored by Giosan*)
2019	WHOI Associate Scientist Award
2018-2019	International Ocean Discovery Program Distinguished Lecturer
2006-2007	Honorary Research Fellow, University of Aberdeen
2001	CICOR Postdoctoral Scholar, WHOI
1993	NAFSA Baltic and East European Program Award

Professional Activities

Synergistics

Co-led IODP proposal resulting in Expedition 353 (Bay of Bengal) and led APL proposal resulting in Expedition 359 (Arabian Sea); co-proponent IODP drilling Arabian Sea; Sunda Shelf, Black Sea.

Outreach and Communication

- Co-organizer and host of Monsoon Geo-Webinar series, 2021-2022
- Co-author of white paper on "*From the Mountains to the Sea: Interdisciplinary Science and Applications Driven by the Flow of Water, Sediment, and Carbon*" for NASA's Decadal Survey Earth Sci. Appl. from Space, 2015
- Co-author of white paper on "*Dynamics and Vulnerability of Deltas*" for Land-Ocean Interactions in the Coastal Zone (LOICZ) Core Project of the International Geosphere-Biosphere Programme (IGBP) and the International Human Dimensions Programme on Global Environmental Change (IHDP), 2009.
- Publications on the Indus, Black Sea, and the Danube highlighted in print/online in *Science*, *Nature*, *National Geographic*, *Discovery*, *NY Times*, *LA Times*, *Yahoo News*, *Google News*, *Voice of America*, *Canadian Public Radio*, media in France, Greece, India, Japan, Romania, UK.

Editorship

2013-2017	Editorial Board member for *Anthropocene*
2012	Lead editor, AGU monograph on "Climate, Landscapes and Civilizations"
2005	Lead editor, SEPM book on "River Deltas: Concepts, Models, Case Studies"

Education

Undergraduate: 14 summer and guest undergraduate students since 2006.

Doctoral Advisor: Camilo Ponton, PhD, 2012 (Associate Professor, *West. Washington University*)

Doctoral Committee: Reed Goodman, PhD 2023 (Visiting Assistant Professor, Institute for the Study of the Ancient World, *New York University*); Jaap Nienhuis, PhD 2015 (Assistant Professor, *Utrecht University*)

Postdoctoral Mentor: Nitesh Khonde, 2017-2018 (Scientist, *Lucknow Institute Paleobotany*, India; Ning Zhao, 2017-2018 (Professor, *East China Normal University*, Shanghai); Ann Dunlea, 2016-2018 (Assistant Scientist, *WHOI*); Sam Munoz, 2015-2017 (Associate Professor, *Northeastern University*); Guillaume Soulet, 2013-2015 (Scientist, *Institut français de recherche pour l'exploitation de la mer* - IFREMER); Nalaka Ranashinghe, 2011-2012 (Professor, *Paradenya University*, Sri Lanka); Andrew Ashton, 2005-2007 (Associate Scientist, *WHOI*)

Courses:

2012-22	MIT/WHOI Joint Program: **Marine Geology & Geophysics** (Sediment subsection)
2014	MIT/WHOI Joint Program: **Marine Geodynamics - ANTHROPOCENE**
2011	MIT/WHOI Joint Program: **Marine Geodynamics – RIVERS**

Invited Talks

North America: MIT, Harvard, Caltech, University of Chicago, Appalachian State University, University of Arizona, Binghamton University, Boston University, Coastal Carolina University, University of Connecticut, Dalhousie, Lamont-Doherty Earth Observatory, Jet Propulsion Lab (NASA), University of Minnesota-Duluth, University of New Mexico, Oklahoma State University, Pennsylvania State University, Rutgers, University of South Carolina, Southern Illinois University, Texas A&M, University of Texas-Dallas, Vanderbilt University, University of Washington.

Europe: Oxford, Cambridge, ETH Zurich, Aberdeen University, Babes-Bolyai University of Cluj, University of Barcelona; Bergen University, Frankfurt University, Kiel University, University of Munich, Oslo University, Southampton University,

Other: Tokyo University, University of Melbourne, Canberra University; universities in India, Pakistan, and Burma.

IN THE MEDIA

1. PennToday: At a southern Iraq site, unearthing the archaeological passing of time (Jan.23, 2023)
2. Alizeh Kohari, Safwan Subzwari, 2020, The Juggernaut: *Did Climate Change Cause the Collapse of the Indus Civilization? Environmental lessons from our Harappan ancestors* https://www.alizehkohari.com/#/climate-change-harappans/
3. Finucane, M., 2018: Boston Globe: *Woods Hole scientists say this ancient civilization declined for a worrisome reason: climate change* https://www.bostonglobe.com/metro/2018/11/15/woods-hole-scientists-say-this-ancient-civilization-declined-for-worrisome-reason-climate-change/MSeA2S63HBxYxQdnyxUzqM/story.html
4. Gill, V. 2014: BBC News Interview: *Major deltas could be drowned*, http://www.bbc.com/news/science-environment-30252137
5. Schultz, C., 2013: Eos Interview with **L. Giosan** on Climate, Landscapes and Civilizations, *Eos*, 94, 40, 355-356, http://onlinelibrary.wiley.com/doi/10.1002/2013EO40/pdf
6. Nuwer, R., 2012: New York Times: *An Ancient Civilization, Upended by Climate Change*, http://green.blogs.nytimes.com/2012/05/29/an-ancient-civilization-upended-by-climate-change/?_r=0
7. Nuwer, R., 2012: New York Times: *From Ancient Deforestation, a Delta Is Born*, http://green.blogs.nytimes.com/2012/09/14/from-ancient-deforestation-a-delta-is-born/
8. Winner, C., 2012: Oceanus Magazine: *Climate Change Spurred Fall of Ancient Culture* https://www.whoi.edu/oceanus/feature/LiviuIndia

Publications

Books

Giosan, L., Fuller, D., Nicoll, K., Rowan, F., Clift, P., (Eds.), 2012, Climate, landscapes and civilizations, *American Geophysical Union Monograph*, Vol. 198, 226 p.

Giosan, L. and Bhattacharya, J., (Eds.), 2005, River Deltas: Concepts, Models, Case Studies, *SEPM Special Publication*, 83, 520 p.

Selected Papers (* - student, postdoc led)

1. *Goodman, R.**, Giosan, L.***, Shen, Z. et al. 2024 The Flooding of Lagash: Evidence for Urban Destruction under Lugalzagesi, the King of Uruk, 31 March 2024, PREPRINT available at *Research Square* [https://doi.org/10.21203/rs.3.rs-4192733/v1]
2. *Zou, S., Lin, G., Chen, A., Huang, Y., Groeneveld, J., Steinke, S. and **Giosan, L**., 2024. Structure of the eastern Arabian Sea upper water column in the middle Miocene: Implications for the development of the South Asian monsoon. *Palaeogeography, Palaeoclimatology, Palaeoecology*, p.112217.
3. Day, J. W., Xu, Y. J., Keim, B. D., Brown, V. M., **Giosan, L.**, Mann, M. E., & Stephens, J. R. (2024). Emerging climate threats to the Mississippi River Delta: Moving from restoration to adaptation. *One Earth*.
4. Khonde, N., Katange, K., Singh, G., Kumar, A., Maurya, D. M., **Giosan, L.**, & Ghosh, T. (2024). Recent Sedimentation across Kori Creek in the Western Great Rann of Kachchh Basin: Insights from Tidal Network Changes, Sedimentological, Clay Mineralogical, and Rare Earth Element Studies. *Journal of Coastal Research*, *40*(2), 289-302.
5. Ghosh, T., Loc, H.H., Park, E., Mortreux, C., Okoh, R., Nesterenko, M., Dubey, S.K., Gain, A.K., Le, D.P., **Giosan, L.** and Syvitski, J., 2023. Adaptation for changing deltas. *One Earth*, *6*(3), pp.185-189.
6. *Jonell, T.N., **Giosan, L.**, Clift, P., et al. 2022. No modern Irrawaddy River until the late Miocene-Pliocene. *Earth and Planetary Science Letters*, *584*, p.117516.
7. Licht, A. and **Giosan, L.**, 2022, The Ayeyarwady River, in *Large Rivers: Geomorphology and Management*, Second Edition, John Wiley & Sons, Ltd., 641-660
8. Süfke, F., Gutjahr, M., Keigwin, L.D., Reilly, B., **Giosan, L.** and Lippold, J., 2022. Arctic drainage of Laurentide Ice Sheet meltwater throughout the past 14,700 years. *Communications Earth & Environment*, *3*(1), pp.1-11.
9. Syvitski, J., Anthony, E., Saito, Y., Zăinescu, F., Day, J., Bhattacharya, J.P., **Giosan, L.**, 2022, Large deltas, small deltas: Toward a more rigorous understanding of coastal marine deltas, *Global and Planetary Change*, *218*.
10. Calvès, G., Mix, A., **Giosan, L**., Clift, P.D., Brusset, S., Baby, P. and Vega, M., 2022. The Nazca Drift System–palaeoceanographic significance of a giant sleeping on the SE Pacific Ocean floor. *Geological Magazine*, *159*(3), pp.322-336.
11. Kirkels, F., Zwart, M., Usman, M. Hou, S. Ponton, C., **Giosan, L.**, Eglinton, T., Pieterse, F., 2022, From soil to sea: sources and transport of organic carbon traced by tetraether lipids in the monsoonal Godavari River, India, *Biogeosciences*, *19*(17), 3979-4010.

12. Benito, X., Benito, B., Vélez, M.I., Salgado, J., Schneider, T., **Giosan, L.**, and Nascimento, M.N., 2022. Human practices behind the aquatic and terrestrial ecological decoupling to climate change in the tropical Andes. *Science of The Total Environment*, *826*, p.154115.
13. Inam, A., Clift, P., **Giosan, L.**, et al., 2022, The Geographic, Geological, and Oceanographic Setting of the Indus River–An Update, in *Large Rivers: Geomorphology and Management*, Second Edition, John Wiley & Sons, Ltd., 488-520.
14. *Zou, S., Groeneveld, J., **Giosan, L.** and Steinke, S., 2022. Determining the habitat depth of the planktic foraminifera *Dentoglobigerina altispira* in the eastern Arabian Sea during the middle Miocene. *Marine Micropaleontology*, *170*, p.102075.
15. Alsudani, K.J., Albadran, B.N. and **Giosan, L**., 2022. Mineralogical and Geochemical Study of Sediments of Lower Mesopotamia, Southern Iraq. *Basrah Journal of Science*, *40*(1), pp.241-257.
16. Alsudani, K.J., Albadran, B.N. and **Giosan, L**., 2022. Heavy Minerals Distribution in South Hammar Marsh, Southern part of Mesopotamia. *Samarra Journal of Pure and Applied Science*, *4*(1), pp.92-104.
17. Passalacqua, P., **Giosan, L.**, Goodbred, S. and Overeem, I., 2021. Stable≠ Sustainable: Delta dynamics versus the human need for stability. *Earth's Future*, p.e2021EF002121.
18. Clemens, S.C., Yamamoto, M., Thirumalai, K., **Giosan, L.**, Richey, J.N., Nilsson-Kerr, K., Rosenthal, Y., Anand, P. and McGrath, S.M., 2021. Remote and local drivers of Pleistocene South Asian summer monsoon precipitation: A test for future predictions. *Science Advances*, *7*(23), p.eabg3848.
19. Johnson, J.E., Phillips, S.C., Clyde, W.C., **Giosan, L.** and Torres, M.E., 2021. Isolating Detrital and Diagenetic Signals in Magnetic Susceptibility Records From Methane-Bearing Marine Sediments. *Geochemistry, Geophysics, Geosystems*, *22*(9), p.e2021GC009867.
20. *Beasley, C., Kender, S., **Giosan, L.**, Bolton, C.T., Anand, P., Leng, M.J., Nilsson-Kerr, K., Ullmann, C.V., Hesselbo, S.P. and Littler, K., 2021. Evidence of a South Asian Proto-Monsoon During the Oligocene-Miocene Transition. *Paleoceanography and Paleoclimatology*, *36*(9), p.e2021PA004278.
21. *Bretschneider, L., Hathorne, E.C., Bolton, C.T., Gebregiorgis, D., **Giosan, L.**, Gray, E., Huang, H., Holbourn, A., Kuhnt, W. and Frank, M., 2021. Enhanced late Miocene chemical weathering and altered precipitation patterns in the watersheds of the Bay of Bengal recorded by detrital clay radiogenic isotopes. *Paleoceanography and Paleoclimatology*, *36*(9), p.e2021PA004252.
22. Eglinton, T.I., Galy, V.V., Hemingway, J.D., Feng, X., Bao, H., Blattmann, T.M., Dickens, A.F., Gies, H., **Giosan, L.**, Haghipour, N. and Hou, P., 2021. Climate control on terrestrial biospheric carbon turnover. *Proceedings of the National Academy of Sciences*, *118*(8).
23. Hwang, J., Blusztajn, J., **Giosan, L.**, Kim, M., Manganini, S.J., Montluçon, D., Toole, J.M. and Eglinton, T.I., 2021. Lithogenic particle transport trajectories on the northwest Atlantic margin. *Journal of Geophysical Research: Oceans*, 126(1), p.e2020JC016802.
24. *Yang, X., Groeneveld, J., Jian, Z., Steinke, S. and **Giosan, L.**, 2020. Middle Miocene intensification of South Asian monsoonal rainfall. *Paleoceanography and Paleoclimatology*, 35(12), p.e2020PA003853.
25. *Höfig, D., Zhang, Y.G., **Giosan, L.**, Leng, Q., Liang, J., Wu, M., Miller, B. and Yang, H., 2021. Annually resolved sediments in the classic Clarkia lacustrine deposits (Idaho, USA) during the middle Miocene Climate Optimum. *Geology*, in press.

26. Huang, Y., Zheng, Y., Heng, P., **Giosan, L.** and Coolen, M.J., 2021. Black Sea paleosalinity evolution since the last deglaciation reconstructed from alkenone-inferred *Isochrysidales* diversity. *Earth and Planetary Science Letters*, *564*, p.116881.
27. Day, J., Goodman, R., Chen, Z., Hunter, R., **Giosan, L.** and Wang, Y., 2021. Deltas in Arid Environments. Water, 13(12), p.1677.
28. *Bretschneider, L., Hathorne, E.C., Huang, H., Lübbers, J., Kochhann, K.G., Holbourn, A., Kuhnt, W., Thiede, R., Gebregiorgis, D., **Giosan, L.** and Frank, M., 2021. Provenance and weathering of clays delivered to the Bay of Bengal during the middle Miocene: Linkages to tectonics and monsoonal climate. *Paleoceanography and Paleoclimatology*, *36*(2), p.e2020PA003917.
29. More, K.D., Wuchter, C., Irigoien, X., Tierney, J.E., Giosan, L., Grice, K. and Coolen, M.J., 2021. Subseafloor Archaea reflect 139 kyrs of paleodepositional changes in the northern Red Sea. *Geobiology*, *19*(2), pp.162-172.
30. *Kumar, A., Maurya, D.M., Khonde, N., Phartiyal, B., Arif, M., **Giosan, L.** and 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*.
31. *Lattaud, J., Bröder, L., Haghipour, N., Rickli, J., **Giosan, L**. and Eglinton, T.I., 2021. Influence of hydraulic connectivity on carbon burial efficiency in Mackenzie Delta lake sediments. *Journal of Geophysical Research: Biogeosciences*, *126*(3), p.e2020JG006054.
32. *Popescu, S.M., Jimenez-Moreno, G., Klotz, S., Lericolais, G., Guichard, F., Çağatay, M.N., **Giosan, L.**, Calleja, M., Fauquette, S. and Suc, J.P., 2021. Late Quaternary vegetation and climate of SE Europe–NW Asia according to pollen records in three offshore cores from the Black and Marmara seas. *Palaeobiodiversity and Palaeoenvironments*, *101*(1), pp.197-212.
33. Munoz, S.E., Porter, T.J., Bakkelund, A., Nusbaumer, J., Dee, S.G., Hamilton, H., **Giosan, L.**, Tierney, J.E., 2020, Lipid biomarker record documents hydroclimatic variability of the Mississippi River basin during the Common Era, *Geophysical Research Letters*, 47(12), p.e2020GL087237.
34. *Nascimento, M.N., Mosblech, N.A.S., Raczka, M.F., Baskin, S., Manrique, K.E., Wilger, J., Giosan, L., Benito, X. and Bush, M.B., 2020. The adoption of agropastoralism and increased ENSO frequency in the Andes. *Quaternary Science Reviews*, 243, p.106471.
35. *Dunlea, Ann, G., Richard W. Murray, Ryuji Tada, Carlos A. Alvarez‐Zarikian, Chloe H. Anderson, Adrian Gilli, Liviu **Giosan**, Thomas Gorgas, Rick Hennekam, Tomohisa Irino, Masafumi Murayama, Larry C. Peterson, Gert-Jan Reichart, Arisa Seki, Hongbo Zheng, Martin Ziegler, 2020, Intercomparison of XRF core scanning results from 7 labs and approaches to practical calibration, *Geochemistry, Geophysics, Geosystems*, in press.
36. *Martinez-Lamas, R., Toucanne, S., Debret, M., Riboulot, V., Deloffre, J., Boissier, A., Cheron, S., Pitel, M., Bayon, G., Soulet, G., **Giosan L**., 2020, Linking Danube River Activity to Alpine Ice-Sheet Fluctuations during the Last Glacial: insights into the continental signature of Heinrich Stadials, *Quaternary Science Reviews*, 229, 106136.
37. *Gebregiorgis, D., **L. Giosan**, E.C. Hathorne, P. Anand, K. Nilsson-Kerr, A. Plass, A. Lückge, S.C Clemens and M. Frank, 2020, What can we learn from X-ray fluorescence core scanning

data? A paleo-monsoon case study, *Geochemistry, Geophysics, Geosystems*, 21(2), p.e2019GC008414.

38. *Gebregiorgis, D., Clemens, S.C., Hathorne, E.C., Giosan, L., Thirumalai, K. and Frank, M., 2020. A brief commentary on the interpretation of Chinese speleothem δ18O records as summer monsoon intensity tracers. Quaternary, 3(1), p.7.
39. Gale, A.S., Little, C.T., Johnson, J.E. and Giosan, L., 2020. A new neolepadid cirripede from a Pleistocene cold seep, Krishna-Godavari Basin, offshore India. *Acta Palaeontologica Polonica*, 65.
40. *More, K.D., **Giosan, L.**, Grice, K. and Coolen, M.J., 2021. Holocene paleodepositional changes reflected in the sedimentary microbiome of the Black Sea. *Geobiology*, 17(4), pp.436-448.
41. *Liu, C., Clift, P.D., **Giosan, L**., Miao, Y., Warny, S. and Wan, S., 2019. Paleoclimatic evolution of the SW and NE South China Sea and its relationship with spectral reflectance data over various age scales. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 525, pp.25-43.
42. Toomey, M., Cantwell, M., Colman, S., Cronin, T., Donnelly, J., **Giosan, L**., Heil, C., Korty, R., Marot, M. and Willard, D., 2019. The mighty Susquehanna—extreme floods in Eastern North America during the past two millennia. *Geophysical Research Letters*, *46*(6), pp.3398-3407.
43. *Raczka, M.F., Mosblech, N.A., **Giosan, L.**, Valencia, B.G., Folcik, A.M., Kingston, M., Baskin, S., Bush, M.B., 2019, A human role in Andean megafaunal extinction? *Quaternary Science Reviews*, 205, 154-165.
44. Vonk, J.E., Drenzek, N., Hughen, K.A., Stanley, R., McIntyre, C., Montluçon, D.B., **Giosan, L.**, Southon, J.R., Santos, G.M., Druffel, E.R. and Andersson, A.A., 2019. Temporal deconvolution of vascular plant-derived fatty acids exported from terrestrial watersheds. *Geochimica et Cosmochimica Acta*, 244, 502-521.
45. *Munoz, S.E., **Giosan, L.**, Blusztajn, J., Rankin, C. and Stinchcomb, G.E., 2019. Radiogenic fingerprinting reveals anthropogenic and buffering controls on sediment dynamics of the Mississippi River system. *Geology*, *47*(3), pp.271-274.
46. *Soulet, G., **Giosan, L.**, Flaux, C. and Galy, V., 2019. Using stable carbon isotopes to quantify radiocarbon reservoir age offsets in the coastal Black Sea. *Radiocarbon*, pp. 1-10.
47. *Anderson, C.H., Murray, R.W., Dunlea, A.G., **Giosan, L**., Kinsley, C.W., McGee, D. and Tada, R., 2019. Aeolian delivery to Ulleung Basin, Korea (Japan Sea), during development of the East Asian Monsoon through the last 12 Ma. *Geological Magazine*, pp.1-12.
48. Day, J.W., Ramachandran, R., **Giosan, L.**, Syvitski, J. and Kemp, G.P., 2019. Delta winners and losers in the Anthropocene. In *Coasts and Estuaries* (pp. 149-165). Elsevier.
49. Kidwai, S., Ahmed, W., Tabrez, S.M., Zhang, J., **Giosan, L.**, Clift, P. and Inam, A., 2019. The Indus Delta—Catchment, River, Coast, and People. In *Coasts and Estuaries* (213-232). Elsevier.
50. *Munoz, S.E., **Giosan, L.**, Therrell, M.D., Remo, J.W.F., Shen, Z., Sullivan, R.M., Wiman, C., O'Donnell, M., Donnelly, J.P., 2018, Climate-modulated Mississippi River flood hazard enhanced by river engineering, *Nature*, 556 (7699), 95
51. **Giosan, L.**, Orsi, W. D., Coolen, M., Wuchter, C., Dunlea, A. G., Thirumalai, K., Munoz, S. E., Clift, P. D., Donnelly, J. P., Galy, V., and Fuller, D. Q., 2018, Neoglacial climate anomalies and the Harappan metamorphosis, *Climate of the Past*, 14, 1669-1686.

52. **Giosan, L.**, Naing, T., Tun, M.M., Clift, P.D., Filip, F., Constantinescu, S., Khonde, N., Blusztajn, J., Buylaert, J.P., Stevens, T. and Thwin, S., 2018. On the Holocene evolution of the Ayeyawady megadelta. *Earth Surface Dynamics*, 6(2), pp. 451-466.
53. Keigwin, L.D., Klotsko, S., Zhao, N., Reilly, B., **Giosan, L.** and Driscoll, N.W., 2018. Deglacial floods in the Beaufort Sea preceded Younger Dryas cooling. *Nature Geoscience*, 11, 8, 599-604.
54. *Gebregiorgis, D., Hathorne, E.C., **Giosan, L.**, Clemens, S., Nürnberg, D. and Frank, M., 2018, Southern Hemisphere forcing of South Asian monsoon precipitation over the past 1 million years, *Nature Communications*, 9(1), p.4702.
55. Ducea, M.N., **Giosan, L.**, Carter, A., Stoica, A. M., Roban, R.D., Balica, C., Balintoni, I., Filip, F., Petrescu, L., 2018. U-Pb detrital zircon geochronology of the lower Danube and its tributaries: Implications for the geology of the Carpathians. *Geochem., Geophys., Geosyst*, DOI:10.1029/2018GC007659.
56. *More, K.D., Orsi, W.D., Galy, V., **Giosan, L.**, He, L., Grice, K. and Coolen, M.J., 2018. A 43 kyr record of protist communities and their response to oxygen minimum zone variability in the Northeastern Arabian Sea. *Earth and Planetary Science Letters*, 496, pp. 248-256.
57. *Freymond, C.V., Lupker, M., Peterse, F., Haghipour, N., Wacker, L., Filip, F., **Giosan, L.** and Eglinton, T.I., 2018. Constraining Instantaneous Fluxes and Integrated Compositions of Fluvially Discharged Organic Matter. *Geochem., Geophys., Geosyst*., doi.org/10.1029/2018GC007539.
58. *Freymond, C.V. et al. (including **Giosan, L.**), 2018. Evolution of biomolecular loadings along a major river system. *Geochimica et Cosmochimica Acta*, 223, 389-404.
59. *Li, Y., Clift, P.D., Böning, P., Blusztajn, J., Murray, R.W., Ireland, T., Pahnke, K., Helm, N.C. and **Giosan, L.**, 2018. Continuous Holocene input of river sediment to the Indus Submarine Canyon. *Marine Geology*, 406, 159-176.
60. *Usman, M.O., Kirkels, F.M.S.A., Zwart, H.M., Basu, S., Ponton, C., Blattmann, T.M., Ploetze, M., Haghipour, N., McIntyre, C., Peterse, F., Lupker, M., **Giosan, L.**, and Eglinton, T.I., 2018. Reconciling drainage and receiving basin signatures of the Godavari River system. *Biogeosciences*, 15(11), pp. 3357-3375.
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