

CURRICULUM VITAE

Liviu Giosan

Geoscientist

Associate Scientist w/ Tenure
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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

2013-	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

Research Interests

Human-climate-landscape interactions: *Role of natural phenomena on development and collapse of civilizations based on reconstructions from marine/continental deposits*

Morphodynamics and Sedimentation: *Rivers, deltas and supply-dominated coasts*

Paleoceanography/Paleoclimatology: *Sources, transport, transformations, and climatic significance of clastic sediments in marine, fluvial, and other aquatic environments*

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

2018-2019 International Ocean Discovery Program Distinguished Lecturer

2016-2018 Visiting Professor, University of Bucharest, Romania

2006-2007 Honorary Research Fellow, University of Aberdeen

2001 CICOR Postdoctoral Scholar, WHOI

1993 NAFSA Baltic and East European Program Award

Shipboard and Field Experience

2018 - 2021	Co-lead Scientist, Okavango delta
2016 - 2017	Chief Scientist, Myanmar (Burma)-Andaman Sea
2016	Geophysicist, Discovery Bay, Jamaica
2014	Stratigraphic Correlator, IODP Leg 353, Bay of Bengal
2013	Physical properties specialist, IODP Leg 346, Sea of Japan
2012	Co-lead Scientist, Yukon delta
2010 - 2012	Co-lead Scientist, Ebro delta
2008 - 2010	Co-lead Scientist, Mackenzie delta
2007 - 2009	Co-lead Scientist, Indus shelf (<i>R/V Pelagia</i>)
2007	Oil Industry Consultant, Indian Ocean
2006	Chief Scientist, Black Sea infilled estuaries
2006	Sedimentologist, India National Gas Hydrate Drilling (NGHP01) Expedition
2004 - 2009	Co-chief Scientist, Indus delta
2004	Co-chief Scientist, Panama Basin (<i>R/V Knorr 176</i>)
2003 - 2011	Chief Scientist, Danube delta
2002	Lead investigator, New England continental slope (<i>R/V Oceanus</i>)
2002	Physical properties specialist, ODP Leg 202, SE Pacific
1998	Physical properties specialist, ODP Leg 172, N Atlantic

Professional Activities

Synergistics

2012-2013 co-led IODP proposal resulting in Expedition 353 (Bay of Bengal) and led APL proposal resulting in Expedition 359 (Arabian Sea)

Outreach and Communication

- 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 Decad. Surv. Earth Sci. Appl. from Space, 2015
- Co-author of white paper on “*Answering 10 Fundamental Questions about the Mississippi Delta*”, Audubon Society, Environmental Defense Fund, and National Wildlife Federation, 2012
- 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 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 and Reviews

2013- Editorial Board member for *Frontiers in Earth Sciences*
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”
 1998 - Reviewer and panelist: National Science Foundation, NERC-UK, Israel
 Science Foundation, Dutch Science Foundation, NSERC-Canada, French and
 Romanian funding agencies
 1998 - Reviewer: Nature, Scientific Reports; Geology; Geophysical Research Letters;
 Journal of Geophysical; GSA Bulletin; Quaternary Science Reviews; Earth
 Planetary Science Letters; Earth Surface Processes and Landforms; Marine Geology;
 Geomorphology; Sedimentary Geology; Basin Research; Journal of Sedimentary
 Research; Deep Sea Research; Estuarine, Coastal and Shelf Science; Estuaries and
 Coasts; Quaternary Research; Marine Geophysical Researches; Marine Pollution
 Bulletin; (I)ODP publications

Invited Conference Speaker

- AGU Fall Meeting Session on monsoons (2018): *Winter Monsoons and the Indus Civilization*
 AGU Fall Meeting Session on deltas (2017): *Survival of deltas under anthropogenic global changes*
 EGU Meeting Vienna (2016): *Sustainable management of river deltas under pressure*
 AGU Fall Meeting Session on deltas (2014): *Deltas maintenance and reconstruction*
 AGU Fall Meeting Session on fluvial fluxes (2013): *Black Sea Anthropocene*
 7th International Conference on Asian Marine Geology, Goa, India (2011): Keynote: *Aridification of
 India during Holocene.*
 DeltaNet Conference on the Impacts of Global Change on Deltas, Estuaries & Coastal Lagoons,
 Romania, 2011: *A new look at the history of Danube delta*
 DeltaNet Conference on the Impacts of Global Change on Deltas, Estuaries & Coastal Lagoons,
 Spain, 2011: *Are deltas human constructs?*
 18th International Sedimentological Congress, Argentina (2010): *Impacts on Old World deltas.*
 AGU Fall Meeting Session on deltas (2009): *The Great Diversion: Danube delta in Anthropocene*
 Estuarine Research Federation Annual Meeting (2009): *Danube delta under human control.*
 Estuarine Research Federation Annual Meeting (2007): *Role of Abrupt Climate Change in River
 Delta Development*
 Ocean Sciences Meeting (2008): *Danube delta: a biosphere reserve at risk.*
 IGCP Conference on Asian Deltas, Vietnam (2005): *Development of the Indus Mega-Delta*
 American Association of Petroleum Geologists Meeting, Dallas (2004): *Large-scale
 morphodynamics of deltas*

Organizer/Convener/Chair/Invited

- IODP Proposal Nurturing Workshop Goa, India, 2018: *Drilling the Arabian and Andaman Seas*
 EGU Meeting Vienna, 2017: *Sustainable management of river deltas under pressure*
 EGU Annual Meeting session on “Black Sea Evolution: Progress and Opportunities”, 2016
 International IGCP Geoscience Program 581 “Evolution of Asian River Systems”, 2009-2013

AGU Fall Meeting session on Monsoon and Past Civilization, 2012
IODP Building US Strategies, Denver, 2012
AGU Chapman Conference on Climates, Past Landscapes, and Civilizations, 2011
Scientific Drilling in the Indian Ocean, Goa, 2011
EGU Annual Meeting session on Coasts, Estuaries and Deltas, 2011
Deltas2010 – Wetland Foundation Conference, Washington, DC. 2010
AGU Fall Meeting session on Response of Sedimentary Systems to Rapid Climate and Sea Level Changes and its Impacts on Humans, 2009
INVEST, IODP Conference, Bremen, 2009
AGU Chapman Conference on Physics of Wave-Mud Interaction, 2008
Thematic Session on “Tideless Coasts: Sediment Processes and Engineering” at Coastal Sediments ’07, ASCE, New Orleans, April 2007
JOI workshop on Black Sea drilling, 2003
AGU Fall Meeting session on “Effects of Sediment Dynamics on Marine Paleorecords, 2003
GSA Annual Meeting Topical Session “Deltas: Old and New”, 2002
Conference on U.S. Participation (CUSP) in IODP, Washington, D.C., 2002
RIOMAR (River-dominated Ocean Margins) workshop, New Orleans, 2001

Invited talks

Caltech, JPL, MIT, Cambridge, Harvard, Lamont-Doherty Earth Observatory, University of Washington, University of Arizona, Rutgers, University of South Carolina, University of Chicago, University of New Mexico, Binghamton University, Southampton University, Tokyo University, universities in India, Pakistan, Germany, and Romania.

Education

Undergraduate: 10 summer and guest undergraduate students since 2006.

Doctoral Advisor/Committee: Camilo Ponton, PhD, 2012 (postdoc Caltech); Jaap Nienhuis, PhD 2015 (postdoc Tulane)

Postdoctoral Mentor: Nitesh Khonde, 2017-2018 (Lucknow Institute Paleobotany, India; Ning Zhao, 2017-2018 (Max Planck, Postdam, Germany); Ann Dunlea, 2016-2018 (WHOI); Sam Munoz, 2015-2017 (Northeastern University); Guillaume Soulet, 2013-2015 (University Durham, UK); Nalaka Ranasinghe, 2011-2012 (Paradenya University, Sri Lanka); Andrew Ashton, 2005-2007 (Associate Scientist, WHOI)

Courses:

2012 - 12.710 MIT/WHOI Joint Program: Introduction to Marine Geology & Geophysics

2014 MIT/WHOI Joint Program: Marine Geodynamics - ANTHROPOCENE

2011 MIT/WHOI Joint Program: Marine Geodynamics – RIVERS

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.

Publications (* - student, postdoc led)

1. *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.
2. *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*, 61(1), pp.309-318.
3. Toomey, M., Cantwell, M., Colman, S., Cronin, T., Donnelly, J., **Giosan, L.**, Heil, C., Kerty, 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.
4. 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.
5. Kidwai, S., Ahmed, W., Tabrez, S.M., Zhang, J., **Giosan, L.**, Clift, P., Inam, A., 2019, The Indus Delta—Catchment, River, Coast, and People. In *Coasts and Estuaries* (pp. 213-232). Elsevier.
6. *More, K.D., **Giosan, L.**, Grice, K. and Coolen, M.J., 2019. Holocene paleodepositional changes reflected in the sedimentary microbiome of the Black Sea. *Geobiology*, in press.
7. *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*, in press.
8. *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.
9. *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.
10. 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.
11. *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.
12. **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.

13. **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.
14. 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.
15. *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..
16. 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.
17. *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.
18. *Freymond, C.V., Lupker, M., Peterse, F., Haghypour, N., Wacker, L., Filip, F., **Giosan, L.** and Eglinton, T.I., 2018. Constraining Instantaneous Fluxes and Integrated Compositions of Fluviially Discharged Organic Matter. *Geochem., Geophys., Geosyst.*, doi.org/10.1029/2018GC007539.
19. *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.
20. *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.
21. *Usman, M.O., Kirkels, F.M.S.A., Zwart, H.M., Basu, S., Ponton, C., Blattmann, T.M., Ploetze, M., Haghypour, 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.
22. Tada, R. et al. (including **Giosan, L.**), 2018. High-resolution and high-precision correlation of dark and light layers in the Quaternary hemipelagic sediments of the Japan Sea recovered during IODP Expedition 346. *Progress in Earth and Planetary Science*, 5(1), 19.
23. *Jonell, T. N., Li, Y., Blusztajn, J., **Giosan, L.**, & Clift, P. D. (2018). Signal or noise? Isolating grain size effects on Nd and Sr isotope variability in Indus delta sediment provenance. *Chemical Geology*, 485, 56-73.
24. *Anderson, C.H., Murray, R.W., Dunlea, A.G., **Giosan, L.**, Kinsley, C.W., McGee, D. and Tada, R., 2018. Climatically Driven Changes in the Supply of Terrigenous Sediment to the E China Sea. *Geochem., Geophys., Geosyst.*, doi.org/10.1029/2018GC007539
25. **Giosan, L.**, Ponton, C., Usman, M., Blusztajn, J., Fuller, D.Q., Galy, V., Haghypour, N., Johnson, J.E., McIntyre, C., Wacker, L. and Eglinton, T.I., 2017. Massive erosion in monsoonal central India linked to late Holocene land cover degradation. *Earth Surface Dynamics*, 5(4), p.781.
26. *Orsi, W.D., Coolen, M.J., Wuchter, C., He, L., More, K.D., Irigoien, X., Chust, G., Johnson, C., Hemingway, J.D., Lee, M., Galy, V., **Giosan L.**, 2017. Climate oscillations reflected within the microbiome of Arabian Sea sediments. *Scientific Reports*, 7.

27. *Khonde, N., Singh, S.K., Maurya, D.M., Rai, V.K., Chamyal, L.S. and **Giosan L.**, 2017. Tracing the Vedic Saraswati River in the Great Rann of Kachchh. *Scientific Reports*, 7.
28. Constantinescu, Ş., and **Giosan, L.** (2017). Marginal deltaic coasts in transition: From natural to anthropogenic along the southern Romanian cliffed coast. *Anthropocene*, 19, 35-44.
29. *Freymond, C.V., Peterse, F., Fischer, L.V., Filip, F., **Giosan, L.** and Eglinton, T.I., 2017. Branched GDGT signals in fluvial sediments of the Danube River basin: Method comparison and longitudinal evolution. *Organic Geochemistry*, 103, pp. 88-96.
30. *Nienhuis, J.H., Ashton, A., Kettner, A., **Giosan, L.**, 2017, Large-scale coastal and fluvial models constrain the late Holocene evolution of the Ebro Delta, *Earth Surface Dynamics*, 5, 1–19, 2017
31. *Bolton, C.T., Hernández-Sánchez, M.T., Fuertes, M.-A., González-Lemos, S., Abrevaya, L., Mendez-Vicente, A., Flores, J.-A., Probert, I., **Giosan L.**, Johnson, J., Stoll, H.M., 2016, Decrease in coccolithophore calcification and CO₂ since the middle Miocene, *Nature Communications*, 7: 10284.
32. *Nienhuis, J.H., Ashton, **Giosan, L.**, 2016, Littoral steering of deltaic channels, *Earth and Planetary Science Letters*, 453; 204–214.
33. *Vonk, J.E., Dickens, A.F., **Giosan, L.**, Hussain, Z.A., Kim, B., Zipper, S.C., Holmes, R.M., Montlucon, D.B., Galy, V., Eglinton, T.I., 2016. Arctic deltaic lake sediments as recorders of fluvial organic matter deposition, *Frontiers in Earth Science*, 4, 77.
34. Clift, P.D., **Giosan, L.**, East, A.E., 2016, Comment on “Geochemistry of buried river sediments from Ghaggar Plains, NW India: Multi-proxy records of variations in provenance, paleoclimate, and paleovegetation patterns in the late Quaternary” by Ajit Singh et al., *Palaeogeography, Palaeoclimatology, Palaeoecology*, 455: 65-67.
35. Clemens, S.C., Kuhnt, W., LeVay, L.J., and the Expedition 353 Scientists (including **L. Giosan**), 2016. *Indian Monsoon Rainfall. Proceedings Int. Ocean Discovery Program, 353*: College Station, TX (International Ocean Disc. Progr.), dx.doi.org/10.14379/iodp.proc.353, 2016.
36. Kemp, P., Day, J.W., Rogers, J.D., **Giosan, L.**, Peyronnin, N., Enhancing mud supply from the Lower Missouri River to the Mississippi River Delta USA: Dam bypassing and coastal restoration, *Estuarine, Coastal and Shelf Science*, 2016.
37. Day, J.W., Agboola, J., Chen, Z., D’Elia, C., Forbes, D.L., **Giosan, L.**, Kemp, P., Kuenzer, C., Lane, R.R., Ramachandran, R., Syvitski, J., Yañez-Arancibia, A., approaches to defining deltaic sustainability in the 21st century, *Estuarine, Coastal and Shelf Science*, 2016.
38. Filipova-Marinova, M., Pavlov, D., **Giosan, L.**, 2016 Multi-proxy records of Holocene palaeoenvironmental changes in the Varna Lake area, western Black Sea coast, *Quaternary International*, 401, 99-108.
39. *Nienhuis, J.H., Ashton, A.D., Nardin, W., Fagherazzi, S., **Giosan, L.**, 2016, Alongshore sediment bypassing as a control on river mouth morphodynamics, *Journal of Geophysical Research - Earth Surface*, 121: 664-683.
40. Cearreta, A., Benito, X., Ibáñez, C., Trobajo, **Giosan, L.**, 2016, Holocene palaeoenvironmental evolution of the Ebro Delta (Western Mediterranean Sea): Evidence for an early construction based on the benthic foraminiferal record, *Holocene*, 26: 1438-1456.
41. *Nienhuis, J.H., Ashton, A.D., **Giosan, L.**, 2015, What makes a delta wave-dominated? *Geology*, 43: 511-514.

42. Tada, R., Murray, R.W., Alvarez Zarikian, C.A., and the Expedition 346 Scientists (including **L. Giosan**), 2015. *Asian Monsoon, Proc. IODP, 346*: College Station, TX (Integrated Ocean Drill. Progr.), doi:10.2204/iodp.proc.346.2015
43. *Nienhuis, J.H., Ashton, A.D., Nardin, W., Fagherazzi, S., **Giosan, L.** (2015), Breaking-wave driven sediment bypassing of river mouths: mechanisms and effects on delta evolution, in *Coastal Sediments '15*, edited by P. Wang et al., World Scientific Publishing. 137-148.
44. Vonk, J.E., **Giosan, L.**, Blusztajn, J. et al., 2015, Spatial variations in geochemical characteristics of the modern Mackenzie Delta sedimentary system, *Geochimica et Cosmochimica Acta*, 171: 100–120.
45. *Zorzi, C., Goni, M.F.S., Anupama, K., Prasad, S., Hanquiez, V., Johnson, J., **Giosan, L.**, 2015, Indian monsoon variations during three contrasting climatic periods: the Holocene, Heinrich Stadial 2 and the last interglacial-glacial transition, *Quaternary Science Reviews* 125, 50-60.
46. *Bertrand, S., K Huguen, **L Giosan**, 2015, Limited influence of sediment grain size on elemental XRF core scanner measurements, in *Micro-XRF Studies of Sediment Cores*, Springer, 473-490.
47. Constantinescu, S., Achim, D., Rus, I., **Giosan, L.**, 2015, Embanking the Lower Danube: From Natural to Engineered Floodplains and Back, in *Geomorphic Approaches to Integrated Floodplain Management of Lowland Fluvial Systems*, Springer, 265-288.
48. Filipova-Marinova, M., D Pavlov, **L Giosan**, 2015, Multi-proxy records of Holocene palaeoenvironmental changes in the Varna Lake area, western Black Sea coast, *Quaternary International*, 401, 99-108.
49. *Ferrier, K.L., Mitrovica, J.X. **Giosan, L.**, Clift, P.D., 2015, Sea-level responses to erosion and deposition of sediment in the Indus River basin and the Arabian Sea. *Earth and Planetary Science Letters*, 416: 12-20.
50. *Ali, S., Hathorne, E., Frank, M., Gebregiorgis, D., Statterger, K., Stumpf, R., Kutterolf, S., Johnson, J.E., **Giosan, L.**, 2015, South Asian monsoon history over the past 60 kyr recorded by radiogenic isotopes and clay mineral assemblages in the Andaman Sea. *Geochemistry, Geophysics, Geosystems*, 16:1525-2027.
51. **Giosan, L.**, Syvitski, J.P.M., Constantinescu, S., Day, J., 2014, Protect the World's Deltas, *Nature*, 516: 31-33.
52. *Filip., F. and **Giosan, L.**, 2014, Evolution of Chilia lobes of the Danube delta: Reorganization of deltaic processes under cultural pressures, *Anthropocene*, 5, 65-70.
53. Betzler, C., Eberli, G.P., **Giosan, L.**, and Alvarez Zarikian, C.A., 2014. Sea level, currents, and monsoon evolution in the Indian Ocean. *International Ocean Discovery Program Scientific Prospectus*, 359. <http://dx.doi.org/10.14379/iodp.sp.359.2014>
54. Peterse, F. et al. (including **L. Giosan**), 2014, Branched glycerol dialkyl glycerol tetraethers in Arctic lake sediments: Sources and implications for paleothermometry at high latitudes, *Journal of Geophysical Research: Biogeosciences* 119 (8), 1738-1754.
55. Clift, P.D. and **Giosan, L.**, 2014, Sediment Fluxes and Buffering in the Post-Glacial Indus Basin, *Basin Research*, 26 (3), 369-386
56. Clift, P.D., **Giosan, L.** et al., 2014, Sediment storage and reworking on the shelf and in the canyon of the Indus fan system since the Last Glacial Maximum, *Basin Res.*, 26 (1), 183-202
57. Filipova-Marinova, M. et al. (including **L. Giosan**), 2014, Varna Lake (north-eastern Bulgaria): vegetation history and human impact during the last 8000 years, *Grana*, 1-3.

58. Filipova-Marinova, M. et al. (including **L. Giosan**), 2014, Vegetation development in the central part of the Bulgarian Black Sea coast during the last 13 000 years, *Grana*, 1-3.
59. *Nace, T.E. et al. (including **L. Giosan**), 2014, The role of North Brazil Current transport in the paleoclimate of the Brazilian Nordeste margin and paleoceanography of the western tropical Atlantic during the late Quaternary, *Palaeogeog., Palaeoclimatology, Palaeoecology*, 415, 3–13.
60. Syvitski, J. et al. (including **L. Giosan**), 2014, Anthropocene metamorphosis of the Indus Delta and lower floodplain, *Anthropocene*, 3: 24-35.
61. *Xing, F. et al. (including **L. Giosan**), 2014, Fluvial response to climate variations and anthropogenic perturbations for the Ebro River, Spain in the last 4000 years, *Science of The Total Environment* 473, 20-31
62. Flores, J. et al., (including **Giosan L.**), 2014, Sedimentation rates from calcareous nannofossil and planktonic foraminifera biostratigraphy in the Andaman Sea, northern Bay of Bengal, and Eastern Arabian Sea, *Jour. Marine Petrol. Geol.*, 58 , 425-437.
63. *Phillips, S., J. Johnson, **L. Giosan**, K. Rose, 2014, Monsoon-influenced variation in productivity and lithogenic sediment flux since 110 ka in the offshore Mahanadi Basin, northern Bay of Bengal, *Jour. Marine Petrol. Geol.*, 58 , 502-525.
64. *Phillips, S. et al. (including **Giosan L.**), 2014, Long-timescale variation in bulk and clay mineral composition of Indian continental margin sediments in the Bay of Bengal, Arabian Sea, and Andaman Sea, *Jour. Marine Petrol. Geol.*, 58 , 117-138.
65. *Cawthorn, J. Johnson, **L. Giosan**, J.A. Flores, K. Rose, 2014, A late Miocene-early Pliocene biogenic silica crash in the Andaman/Bay of Bengal, *Jour. Marine Petrol. Geol.*, 58 , 490-501.
66. Teichert, B., J. Johnson, **L. Giosan**, K. Rose, 2014, Composition and Origin of Authigenic Carbonates in the Krishna-Godavari and Mahanadi Basins, eastern Continental Margin of India, *Jour. Marine Petrol. Geol.*, 58 , 438-460.
67. Johnson, J., S. Phillips, E. Miranda, **L. Giosan**, K. Rose, 2014, Influence of total organic carbon deposition on the inventory of gas hydrate in the Indian continental margins, *Jour. Marine Petrol. Geol.*, 58 , 406-424.
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Invited Papers/Reviews/Overviews/Interviews

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