

OREGON STATE UNIVERSITY
College of Earth, Ocean, & Atmospheric Sciences

MIGUEL A. GOÑI
Professor

Current Position: Professor
College of Earth, Ocean and Atmospheric Sciences
Oregon State University
104 CEOAS Administration Building
Corvallis, OR 97331-5504
(541) 737-0578; (541) 737-2064 (FAX)
mgoni@coas.oregonstate.edu

EDUCATION

A.S., North Idaho Community College, 1984
B.S., Oceanography, University of Washington, 1986
Ph.D., Oceanography, University of Washington, 1992

ACADEMIC POSITIONS

Graduate Research Assistant, University of Washington, 1986 – 1992
Postdoctoral Fellow, Woods Hole Oceanographic Institution, 1992 – 1993
Postdoctoral Investigator, Woods Hole Oceanographic Institution, 1993 – 1995
Assistant Professor, Department of Geological Sciences, University of South Carolina, 1995 – 2000
Associate Professor, Department of Geological Sciences, University of South Carolina, 2000 – 2005
Professor, Department of Geological Sciences, University of South Carolina, 2005 – 2005
Associate Professor, College of Ocean and Atmospheric Sciences, Oregon State University, 2005 – 2008
Professor, of Ocean and Atmospheric Sciences, Oregon State University, 2008 – present

NON-ACADEMIC POSITIONS

Director of Graduate Studies, Marine Sciences Program, University of South Carolina , 1999 - 2000
Research Associate, Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, 1995 – 2005
Associate Faculty, Marine Science Program and School of the Environment, University of South Carolina, 1995 – 2005
Assistant Dept. Chair, Department of Geological Sciences, University of South Carolina, 2001 – 2005

FIELDS OF SPECIALIZATION

Marine biogeochemistry,
Organic and stable isotope geochemistry
Global biogeochemical cycles
Paleoceanographic and paleoclimate research

HONORS AND AWARDS

Phi Beta Kappa Honor Society, 1984
Golden Key National Honor Society, 1985
Postdoctoral Fellowship in Ocean Sciences and Engineering, Woods Hole Oceanographic Institution, 1992.
Faculty Early Career Development (CAREER) Award - National Science Foundation, June 1997.
Invited Speaker at the National Academy of Sciences Symposium on Fifty Years of Ocean Discovery. Washington, DC. October 28-30, 1998.
Invited Participant to the 11th Annual Frontiers of Science Symposium sponsored by the U.S. National Academy of Sciences in Irvine, CA. November 11-13, 1999.

PROFESSIONAL ACTIVITIES

Professional Organizations

- American Geophysical Union
- American Society of Limnology and Oceanography
- Geochemical Society of America
- Estuarine Research Federation
- Society for Advancement of Chicanos and native Americans in Science

Conference Session Chair, Workshop Convener, etc.

- American Chemical Society Meeting, “Isotopic and Molecular Biogeochemistry of Organic Matter in Ancient and Modern Environments”, August 20-24, 1995.
- 2005 Summer ASLO Meeting, “Coupled Oceanographic Processes in Estuaries and River Dominated Margins”, Santiago de Compostela, Spain, June 19-24, 2005.
- 2009 Coastal and Estuarine Research Federation Meeting, “Significance of River-Ocean Coherence for Fluxes and Fate of Terrestrial Material”, Portland, OR, November 2-6, 2009.
- 2010 American Geophysical Union Meeting, “Session OS11: Eastern Boundary Ocean Margin Carbon Cycles”, San Francisco, CA, 13-17 December 2010.
- 2014 Goldschmidt Conference, “From Source to Sink: Tracing Organic Matter Transport in Fluvial Watersheds to Identify Links and Feedbacks between Climate, Tectonics, Weathering and the Carbon Cycle”, Sacramento, CA 8-13 June 2014.
- 2015 Coastal & Estuarine Research Federation Meeting, “Quantifying Fluxes in Estuaries: What is the State of the Art?”, Portland, OR 8-12 November 2015.
- 2017 Aquatic Sciences Meeting -Mountains to the Sea, “From the Mountains to the Sea: Fluxes, Transformations, and Impacts of Land-derived Materials in the Coastal Zone”, Honolulu, HI, 26 February to 3 March, 2017.

Editorial Duties

- Editorial Board of Continental Shelf Research, 2007 – 2009.
- Editor, Journal of Geophysical Research – Oceans, 2009 – 2013.
- Associate Editor, Continental Shelf Research, 2009 – 2014.
- Editor in Chief, Journal of Geophysical Research – Biogeosciences, 2014 – present.

Committees, Panels, Commissions and Boards

- Participant in the NSF-sponsored workshop on Alkenone-Based Paleoceanographic Indicators. Woods Hole, MA, October 3-6, 1999.
- Participant in NSF-sponsored MARGINS Source-to-Sink Workshop and planning meeting in Lake Tahoe, CA, September 11-15, 2000.
- Participant in the NSF- and NASA-sponsored Workshop on River-dominated Ocean Margins (RiOMar). New Orleans, LA, November 1-3, 2001.
- Participant in NSF-sponsored workshop in Coastal Ocean Processes and Observatories, Savannah, GA, May 7-9, 2002.
- Invited participant to NSF-sponsored meeting on the North American Carbon Program, Washington, DC, May 12-14, 2003.
- Users meeting for NOAA’s new research vessel, Nancy Foster, Norfolk, VA, March 10, 2003.
- Participant in NSF-sponsored Coastal Benthic Exchange Dynamics (CBED) Workshop, St. Petersburg, FL, April 5 – 7, 2004.
- Participant in Tulane University-sponsored RiOMar 2004 Workshop, New Orleans, LA, November, 15-18, 2004.
- Moderator/rapporteur in NSF, NOAA, NASA-sponsored Coastal CO2 Workshop, Boulder, CA, September 21-23, 2005.

- Participant in NSF-sponsored workshop on Paleo-Proxies, San Francisco, December 10-11, 2005.
- Panel Chair in symposium on “Hypoxia in the Northern Gulf of Mexico. Assessing the State of the Science”, New Orleans, LA, April 25-27, 2006; sponsored by EPA and NOAA.
- Session Chair, U.S. North American Carbon Program (NACP) Workshop, Colorado Springs, January 22-24, 2007.
- Session co-Chair in the NSF, NOAA, NASA-sponsored Ocean Carbon and Biogeochemistry Scoping Workshop on Terrestrial and Coastal Carbon Fluxes in the Gulf of Mexico, May 6-8, 2008, St. Petersburg, FL.
- Invited plenary speaker and breakout session chair at the joint North American Carbon Program (NACP)/Ocean Carbon and Biogeochemistry (OCB) Coastal Synthesis workshop December 11-12, 2010 at the Courtyard Marriott Hotel in San Francisco, California.
- Participant and breakout discussion leader at the AGU Chapman Conference on Source to Sink Systems Around the World and Through Time, Oxnard, California, USA. 24-27 January 2011.
- Institutional representative to the Ocean Observatories Initiative (OOI) Pioneer Array in the Middle Atlantic Bight Science workshop. Providence, RI on February 22-24, 2011.
- Invited speaker at 2014 Coastal Carbon Synthesis Community Workshop. Woods Hole, MA, August 19-21, 2014.
- Panelist of COV Peer Review Committee for OCE program at National Science Foundation, March-June, 2015.
- Served as panelist in multiple proposal review panels for the National Science Foundation’s Life in Extreme Environments Program, Chemical Oceanography Program, Marine Geology and Geophysics Program and East Asia and Pacific Summer Institutes (EAPSI) Program, Arctic Natural Sciences.
- Served as proposal review panelist for Department of Energy’s Ocean Carbon Sequestration Research Program Department and National Oceanic and Atmospheric Administration’s Global Carbon Cycle Program.

PUBLICATIONS

Citation Metrics (December 22, 2017)

Google Scholar:	ResearcherID:
Citations: 6708	Citations: 4481
h-Index: 42	h-Index: 35
i10-index: 83	Citations per Article: 54

Peer reviewed papers, book chapters, etc.

1990

1. Goñi M. A. and Hedges J. I. (1990) Analysis of cutin-derived CuO reaction products from purified cuticles. *Geochimica et Cosmochimica Acta* **54**, 3065-3072.
2. Goñi M. A. and Hedges J. I. (1990) Potential applications of cutin-derived CuO reaction products for discriminating vascular plant sources in natural environments. *Geochimica et Cosmochimica Acta*, **54**, 3073-3081.
3. Goñi M. A. and Hedges J. I. (1990) The diagenetic behavior of cutin acids in buried conifer needles and sediments from a marine coastal environment. *Geochimica et Cosmochimica Acta*, **54**, 3083-3093.

1992

4. Goñi M. A. and Hedges J. I. (1992) Lignin dimers: structures, distribution and potential geochemical applications. *Geochimica et Cosmochimica Acta* **56**, 4025-4043.

1993

5. Goñi M. A., Nelson B. C., Blanchette R. A. and Hedges J. I. (1993) Fungal degradation of wood lignins: geochemical perspectives from CuO-derived phenolic dimers and monomers. *Geochimica et Cosmochimica Acta* **57**, 3985-4002.

6. Goñi M. A. and Hedges J. I. (1993) Molecular-level characterization of marine-derived sedimentary organic matter by alkaline CuO oxidation: sources and reactivities of organic matter from Skan Bay (Alaska) sediments. *Chemical Geology* **107**, 483-485.

1994

7. Nelson B. C., Goñi M. A., Hedges J. I. and Blanchette R. A. (1994) Soft-rot fungal degradation of lignin in archeological woods dating 2700 BP. *Holzforschung* **49**, 1-10.
8. Goñi M. A. and Eglinton T. I. (1994) Analysis of kerogens and kerogen precursors by flash pyrolysis in combination with isotope-ratio-monitoring gas chromatography-mass spectrometry (irm-GC-MS). *Journal of High Resolution Chromatography* **17**, 476-488.
9. Prahl F. G., Ertel J. R., Goñi M. A., Sparrow M. A. and Pinto L. A. (1994) Terrestrial organic carbon contributions to sediments on the Washington margin. *Geochimica et Cosmochimica Acta* **58**, 3035-3048.
10. Van Bergen P. F., Goñi M. A., Collison M. E., Sinnighe Damste J. S. and de Leeuw J. W. (1994) Chemical and microscopic characterization of outer seed coats of fossil and extant water plants. *Geochimica et Cosmochimica Acta* **58**, 3823-3844.

1995

11. Goñi M. A. and Hedges J. I. (1995) Sources and reactivities of marine-derived organic matter in coastal sediments as determined by alkaline CuO oxidation. *Geochimica et Cosmochimica Acta* **59**, 2965-2981

1996

12. Goñi M. A. and Eglinton T. I. (1996) Stable carbon isotopic analyses of lignin-derived CuO oxidation products by isotope ratio monitoring-gas chromatography-mass spectrometry (irm-GC-MS). *Organic Geochemistry* **24**, 601-615.

1997

13. Ruttenberg K. C. and Goñi M. A. (1997) Phosphorous distributions, C:N:P ratios, and $\delta^{13}\text{C}_{\text{oc}}$ in arctic, temperate, and tropical coastal sediments: tools for characterizing bulk sedimentary organic matter. *Marine Geology* **139**, 123-145.
14. Goñi M. A., Ruttenberg K. C., and Eglinton T. I. (1997) Sources and contribution of terrigenous organic carbon to surface sediments in the Gulf of Mexico. *Nature* **389**, 275-278.
15. Goñi M. A. (1997) Record of terrestrial organic matter composition in Amazon Fan sediments. In: Flood R. D., Piper D. J. W., Klaus A., and Peterson L. C. (Eds.). *Proceedings of the Ocean Drilling Program, Scientific Results, 155*: College Station, TX (Ocean Drilling Program), 519-530.
16. Keil R. G., Tsamakis E., Wolf N., Hedges J. I., and Goñi M. A. (1997) Relationships between organic carbon preservation and mineral surface area in Amazon Fan sediments (Holes 932A and 942A). In: Flood R. D., Piper D. J. W., Klaus A., and Peterson L. C. (Eds.). *Proceedings of the Ocean Drilling Program, Scientific Results, 155*: College Station, TX (Ocean Drilling Program), 531-538.
17. Ruttenberg K. C. and Goñi M. A. (1997) Depth trends in phosphorous distribution and C:N:P ratios of organic matter in Amazon Fan sediments: Indices of organic matter source and burial history. In: Flood R. D., Piper D. J. W., Klaus A., and Peterson L. C. (Eds.). *Proceedings of the Ocean Drilling Program, Scientific Results, 155*: College Station, TX (Ocean Drilling Program), 505-517.

1998

18. Kokinos J. P., Eglinton T. I., Goñi M. A., Boon J. J., Martoglio P. A., and Anderson D. M. (1998) Characterization of a highly resistant biomacromolecular material in the cell wall of a marine dinoflagellate resting cyst. *Organic Geochemistry* **28**, 265-288.
19. Goñi M. A., Ruttenberg K. C., and Eglinton T. I. (1998) A reassessment of the sources and importance of land-derived organic matter in surface sediments from the Gulf of Mexico. *Geochimica et Cosmochimica Acta* **62**, 3055-3075.

2000

20. Eglinton T. I., Goñi M. A., Boon J. J., van der Hage E. R. E., Terashima N. and Xie Y. (2000) Incorporation of ^{13}C -labeled coniferyl alcohol into developing *Ginkgo biloba* L. lignin revealed by

- analytical pyrolysis and CuO oxidation in combination with isotope ratio monitoring-gas chromatography-mass spectrometry. *Holzforschung* **54**, 39-54.
21. Goñi M. A. and Montgomery S. (2000) Alkaline CuO oxidation with a microwave digestion system: a novel, rapid approach for lignin analyses of geochemical samples. *Analytical Chemistry* **72**, 3116-3121.
 22. Goñi M. A., Yunker M. B., Macdonald R. W., and Eglinton T. I. (2000) Distribution and sources of organic biomarkers in Arctic sediments from the Mackenzie River and Beaufort shelf. *Marine Chemistry* **71**, 23-51.
 23. Goñi M. A. and Thomas K. A. (2000) Sources and transformations of organic matter in surface soils and sediments from a Tidal Estuary (North Inlet, South Carolina, USA). *Estuaries* **23**, 548-564.
 24. Allison M. A., Kineke G. C., Gordon E. S., Goñi M. A. (2000) Development and reworking of a seasonal flood deposit on the inner continental shelf off the Atchafalaya River. *Continental Shelf Research* **20**, 2267-2294.
 25. Grimalt J. O., Rullkotter J., Sicre M.-A., Summons R., Farrington J., Harvey H. R., Goñi M. A., and Sawada K. (2000) Modifications of the C37 alkenone and alkenoate composition in the water column and sediment: Possible implications for sea surface temperature estimates in paleoceanography. *Geochemistry, Geophysics and Geosystems* **1**, 2000GC000053.

2001

26. Goñi M. A., Hartz D. M., Thunell R. C., and Tappa E. (2001) Oceanographic considerations in the application of the alkenone-based paleotemperature Uk'37 index in the Gulf of California. *Geochimica et Cosmochimica Acta* **65**, 545-557.
27. Gordon E. S., Goñi M. A., Roberts, Q. N., Kineke, G. C., and Allison, M. A. (2001). Organic matter distribution and accumulation on the inner Louisiana Shelf. *Continental Shelf Research* **21**, 1691-1721.
28. Rosell-Mele A., Bard, E., Emeis, K.-C., et al., Goñi M. A., et al. (2001) Precision of the current methods to measure alkenone relative (UK37') and absolute abundance in sediments: results of an inter-laboratory comparison study. *Geochemistry, Geophysics and Geosystems* **2**, 2000GC000141.
29. Hernes P. J., Benner R., Cowie G. L., Goñi M. A., Bergamaschi B. A., and Hedges J. I. (2001). Tannin diagenesis in mangrove leaves from a tropical estuary: A novel molecular approach. *Geochimica et Cosmochimica Acta* **65**, 3109-3122.

2003

30. Kastner T. P. and Goñi M. A. (2003) Constancy in the vegetation of the Amazon Basin during the Late Pleistocene: Evidence from the organic matter composition of Amazon Deep Sea Fan sediments. *Geology* **31**, 291-294.
31. Torres R., Mwamba M. J., and Goñi M. A. (2003) Properties of intertidal marsh sediment mobilized by rainfall. *Limnology and Oceanography* **48**, 1245-1253.
32. Goñi M. A., Aceves H. A., Thunell R. C., Tappa E., Black D., Astor Y., Varela R., and Müller-Karger F. (2003) Biogenic fluxes in the Cariaco Basin: a combined study of sinking particulates and underlying sediments. *Deep-Sea Research I* **50**, 781-807.
33. Gordon E. S. and Goñi M. A. (2003) Sources and distribution of terrigenous organic matter delivered by the Atchafalaya River to sediments in the northern Gulf of Mexico. *Geochimica et Cosmochimica Acta* **67**, 2359-2375.
34. Goñi M. A., Teixeira M. J., Perkey D. W. (2003) Sources and distribution of organic matter in a river-dominated estuary (Winyah Bay, South Carolina, USA). *Estuarine, Coastal and Shelf Science* **57**, 1023-1048.
35. Goñi M. A. and Gardner L. R. (2003) Seasonal dynamics in dissolved organic carbon concentrations in a coastal water-table aquifer at the forest-marsh interface. *Aquatic Geochemistry* **9**, 209-232.

2004

36. Visser K., Thunell R., and Goñi M. A. (2004) Glacial-interglacial organic carbon record from the Makassar Strait, Indonesia: Implications for regional changes in continental vegetation. *Quaternary Science Reviews* **23**, 17-27.

37. Goñi M. A., Woodworth, M., Aceves, H. L., Thunell, R. C., Tappa, E., Black, D., Muller-Karger, F. E., Astor Y, and Varela, R. (2004) Generation, transport and preservation of the alkenone-based UK'37 sea surface temperature index in the water column and sediments of the Cariaco Basin (Venezuela). *Global Biogeochemical Cycles* **18**, GB2001, doi:10.1029/2003GB002132.
38. Gordon E. S. and Goñi M. A. (2004) Controls on the distribution and accumulation of terrigenous organic matter in sediments from the Mississippi and Atchafalaya River Margin. *Marine Chemistry* **92**, 331– 352.
39. Woodworth M., Goñi M., Tappa E., Tedesco K., Thunell R., Astor Y., Varela R., Diaz-Ramos R.J., Müller-Karger F. (2004) Oceanographic Controls on the Carbon Isotopic Compositions of Sinking Particles from the Cariaco Basin. *Deep Sea Research* **51**, 1955–1974.
40. Torres R., Goni M. A., Voulgaris G.V., Lovell C.R., Morris J.T. (2004) Effects of Low Tide Rainfall on Intertidal Material Cycling. In *The Ecogeomorphology of Tidal Marshes*. S. Fagherrazi, M. Marani, L. Blum (eds.). Coastal and Estuarine Studies 59. American Geophysical Union. 93-114.

2005

41. Goñi M. A., Yunker, M. B., Macdonald, R. W., and Eglinton, T. I. (2005) The supply and preservation of ancient and modern components of organic carbon in the Canadian Beaufort Shelf of the Arctic Ocean. *Marine Chemistry* **93**, 53-73.
42. Crockett J. , Nittrouer C., Ogston A., Sternberg R., Driscoll N., Babcock J., Milliman J., Slingerland R., Naar D., Donahue B., Walsh J., Dietrich W., Parker G., Bera M., Davies H., Harris P., Goni M., Aller R., Aller J. (2005) Where the rivers and oceans collide. *EOS Transactions* **86**, 25,32.
43. Goñi M. A., Cathey M. W., Kim Y. H., and Voulgaris G. (2005) Fluxes and sources of suspended organic matter in an estuarine turbidity maximum region during low discharge conditions. *Estuarine, Coastal and Shelf Sciences* **63**, 683-700.
44. Allison M. A. Sheremet A., Goñi M. A. and Stone G. W. (2005) Storm Layer Deposition on the Mississippi-Atchafalaya Subaqueous Delta Generated by Hurricane Lili in 2002. *Continental Shelf Research* **25**, 2213-2232.

2006

45. Goñi M. A., Monacci N., Gisewhite R., Ogston A., Crockett J., Nittrouer C. (2006) Distribution and sources of particulate organic matter in the water column and sediments of the Fly River Delta, Gulf of Papua (Papua New Guinea). *Estuarine, Coastal and Shelf Science* **69**, 2260-2280.
46. Goñi M. A., Thunell R. C., Woodworth M. P., and Müller-Karger F. E. (2006), Changes in wind-driven upwelling during the last three centuries: Interocean teleconnections, *Geophysical Research. Letters*, **33**, L15604, doi:10.1029/2006GL026415.
47. Mead R. and Goñi M. A. (2006) A lipid molecular marker assessment of sediments from the Northern Gulf of Mexico before and after the passage of Hurricane Lili. *Organic Geochemistry* **37**, 1115-1129.
48. Walsh J.P., Corbett D.R., Mallinson D., Goñi M., Dail M., Loewy C., Marciniak K., Ryan K., Smith C., Stevens A., Summers B., and Tesi T. (2006) Mississippi Delta mudflow activity triggered by recent Gulf hurricanes. *EOS Transactions* **87**, 477-478.
49. Goñi M. A. Gordon E. S., Monacci N. M., Clinton R., Gisewhite R., Allison M., Kineke G. (2006) The effect of Hurricane Lili on the distribution of organic matter along the Inner Louisiana Shelf (Gulf of Mexico, USA). *Continental Shelf Research* **26**, 2260-2280.

2007

50. Goñi M. A., Alleau, Y., Corbett, R., Walsh, J. P., Mallinson, D., Allison, M. A., Gordon, E., Petsch, S., Dellapenna, T. (2007) The effects of Hurricanes Katrina and Rita on the seabed of the Louisiana shelf. *The Sedimentary Record* **5**, 4-9.
51. Tesi T., Miserocchi S., Goñi M.A., and Langone, L. (2007) Source, transport and fate of terrestrial organic carbon on the western Mediterranean Sea, Gulf of Lions, France. *Marine Chemistry* **105**, 101-117.
52. Tesi T., Miserocchi S., Goñi M.A., Langone L., Boldrin A., and Turchetto M. (2007) Organic matter origin and distribution in suspended particulate material and surficial sediments from the western Adriatic Sea (Italy). *Estuarine, Coastal and Shelf Science* **73**, 431-446.

2008

53. Alin S.R., Aalto R., Goni M.A., Richey J.E., and Dietrich W.E. (2008) Biogeochemical characterization of carbon sources in the Strickland and Fly Rivers, Papua New Guinea. *J. Geophys. Res.* **113**, F04S05, doi:10.1029/2006JF000625.
54. Goñi M. A., Monacci N., Gisewhite R., Crockett J., Nittrouer C., Ogston A., Alin, S. R., Aalto, R. (2008) Terrigenous organic matter in sediments from the Fly River Delta (Papua New Guinea). *J. Geophys. Res.* **113**, F01S10, doi:10.1029/2006JF00065.
55. Ogston A. S., Sternberg R. W., Nittrouer C. A., Martin D. P., Goñi M. A., and Crockett J. S. (2008), Sediment delivery from the Fly River tidally dominated delta to the nearshore marine environment and the impact of El Niño, *J. Geophys. Res.* **113**, F01S11, doi:10.1029/2006JF000669.
56. Tesi T., Langone L., Goñi M.A., Miserocchi S., and Bertasi F. (2008) Changes in the composition of organic matter from prodeltaic sediments after a large flood event (Po River, Italy). *Geochimica et Cosmochimica Acta* **72**, 2100-2114.
57. Mead R. and Goni M.A. (2008) Matrix protected organic matter in a river dominated margin: a possible mechanism to sequester terrestrial organic matter. *Geochimica et Cosmochimica Acta* **72**, 2673-2686.
58. Kuzyk Z.Z.A., Goñi M.A, Stern G.A, Macdonald R.W. (2008) Sources, pathways and sinks of particulate organic matter in Hudson Bay: evidence from lignin distributions. *Marine Chemistry* **112**, 215-229, doi:10.1016/j.marchem.2008.08.001.
59. Tesi T., Langone L., Goñi M.A., Turchetto M., Miserocchi S., and Boldrin A. (2008) Source and composition of organic matter in the Bari canyon (Italy): dense water cascading vs. particulate export from the upper ocean. *Deep Sea Research I* **55**, 813-831, doi: 10.1016/j.dsr.2008.03.007.

2009

60. Goñi M.A., Aceves H. Benitez-Nelson B., Tappa E., Thunell R., Black D.E., Muller-Karger F., Astor Y., Varela R. (2009) Oceanographic and climatologic controls on the compositions and fluxes of biogenic materials in the water column and sediments of Cariaco Basin over the Late Holocene. *Deep Sea Research Part I* **56**, 614-640, doi:10.1016/j.dsr.2008.11.010.
61. Crockett J.S., Nittrouer C.A., Ogston A.S., Goni M.A. (2009) Variable styles of sediment accumulation impacting strata formation on a clinoform: Gulf of Papua, Papua New Guinea. In: *The Fly River System, Papua New Guinea: A Natural History*. Ed. B. Bolton. Developments in Earth and Environmental Sciences, 9 Elsevier (Amsterdam), pp. 177-204, doi:10.1016/S1571-9197(08)00405-9.
62. Goñi M. A., Voulgaris G., Kim Y. H. (2009) Composition and fluxes of particulate organic matter in a temperate estuary (Winyah Bay, South Carolina, USA) under contrasting physical forcings *Estuarine, Coastal and Shelf Science*, doi:10.1016/j.ecss.2009.08.013.
63. Muller-Karger Frank. E., R. Varela, R. C. Thunell, M. I. Scranton, G. T. Taylor, Y. Astor, C. R. Benitez-Nelson, L. Lorenzoni, E. Tappa, M. A. Goñi, D. Rueda, and C. Hu. (2009) The CARIACO Oceanographic Time Series. In: *Carbon and Nutrient Fluxes in Continental Margins, Global Change – The IGBP Series*. Kon-Kee Liu, Larry Atkinson, Renato Quinones, Liana Talaue-McManus (eds) Springer-Verlag Berlin Heidelberg, doi: 10.1007/978-3-540-92735-2_8, pp. 454-463.

2010

64. Wheatcroft R. A., Goñi M. A., Hatten J. A., Pasternack G. B., Warrick J. A. (2010) The role of effective discharge in the ocean delivery of particulate organic carbon by small, mountainous river systems. *Limnology and Oceanography* **55**, 161-171.
65. Tesi T., Puig P., Palanques A. Goñi M. A. (2010) Lateral advection of organic matter in cascading-dominated submarine canyons. *Progress in Oceanography* **84**, 185-203, doi:10.1016/j.pcean.2009.10.004.
66. Tesi T., Goñi M.A., Langone L., Puig, P., Canals, M., Nittrouer C.A., Durrieu de Madron X., Calafat A., Planques A., Heussner S., Davies M.H., Drexler T.M., Fabres J., Miserocchi S. (2010) Reexposure and advection of ¹⁴C-depleted organic carbon from old deposits at the upper continental slope. *Global Biogeochemical Cycles* **24**, doi:10.1029/2009GB003745.

2011

67. Holser R.R., Goñi M.A., Hales B. (2011) Design and application of a semi-automated filtration system to study the distribution of particulate organic carbon in the water column of a coastal upwelling system. *Marine Chemistry* **123**, 67-77.
68. Tesi, T., Miserocchi, S., Goñi M.A., Turchetto, M., Langone, L., De Lazzari, A., Albertazzi, S. Correggiari (2011). Influence of distributary channels on sediment and organic matter supply in event-dominated coastal margins: the Po prodelta as a study case. *Biogeosciences* **8**, 365-385 (doi:10.5194/bg-8-365-2011).
69. Kniskern, T., Warrick, J., Farnsworth, K., Wheatcroft, R., Goni, M. Coherence of river and ocean conditions along the U.S. west coast during storms (2011). *Continental Shelf Research* **31**, 789-805.
70. Pasqual, C., Lee, C., Goñi, M., Tesi, T., Sanchez-Vidal, A., Calafat, A., Canals, M., Heussner, S. (2011) Use of organic biomarkers to trace the transport of marine and terrigenous organic matter through the southwestern canyons of the Gulf of Lion. *Marine Chemistry* **126**, 1-12.

2012

71. Hatten, J.A., Goñi, M.A., Wheatcroft, R.A. (2012) Chemical characteristics of particulate organic matter from a small mountainous river in the Oregon Coast Range, USA. *Biogeochemistry* **107**: 43-66 (DOI 10.1007/s10533-010-9529-z).
72. Hastings, R.H., Goñi, M.A., Wheatcroft R.A., Borgeld J. (2012) A terrestrial organic matter depocenter on a high-energy margin: the Umpqua River system, Oregon. *Continental Shelf Research* **39-40**: 78-91 (DOI 10.1016/j.csr.2012.04.002).
73. Alin, S. et al., (2012) Coastal Carbon Synthesis for the Continental Shelf of the North American Pacific Coast (NAPC): Preliminary Results. *Ocean Carbon and Biogeochemistry News*, **5**: 1-19.
74. Tesi, T., Langone, L., Goñi, M.A., Wheatcroft, R.A., Miserocchi, S., Bertotti, L. (2012) Early diagenesis of recently deposited organic matter: A 9-yr time-series study of a flood deposit. *Geochimica et Cosmochimica Acta* **83**, 19-36.

2013

75. Goñi, M.A., Hatten, J.A., Wheatcroft R.A., Borgeld J. (2013) Particulate organic matter export by two contrasting small mountainous rivers in the Pacific Northwest, U.S.A. *Journal of Geophysical Research – Biogeosciences* **118**: 112-134 (doi:10.1002/jgrg.20024).
76. Warrick, J.A., Hatten, J.A., Pasternack, G.B., Gray, A.B., Goñi, M.A., Wheatcroft, R.A. (2013) The effects of wildfire on the sediment yield of a coastal California watershed. *Geological Society of America Bulletin* **124** (7-8): 1130-1146 (doi: 10.1130/B30451.1).
77. Roy, M., McManus, J., Goñi, M.A., Chase, Z., Borgeld, J.C., Wheatcroft, R.A., Muratli, J.M., Megowan, M.R., Mix, A. (2013) Reactive iron and manganese distributions in seabed sediments near small mountainous rivers off Oregon and California, (USA). *Continental Shelf Research* **24**: 67-79 (doi: 10.1016/j.csr.2012.12.012).
78. Warrick, J.A., Madej, M.A., Goñi, M.A., Wheatcroft R.A. (2013) Trends in the suspended-sediment yields of coastal rivers of northern California, 1955–2010. *Journal of Hydrology* **489**: 108-123 (doi: 10.1016/j.jhydrol.2013.02.041).
79. Moskalski, S.M., Torres, R., Bizimis, M., Goñi, M., Bergamaschi, B., Fleck, J. (2013) Low-tide rainfall effects on metal content of suspended sediment in the Sacramento-San Joaquin Delta. *Continental Shelf Research* **56**: 39-55 (doi: 10.1016/j.csr.2013.02.001).
80. Watson, E.B., Pasternack, G.B., Gray, A.B., Goñi, M., Woolfolk, A.M. (2013) Particle size characterization of historic sediment deposition from a closed estuarine lagoon, Central California. *Estuarine, Coastal and Shelf Science* **126**: 23-33 (doi: 10.1016/j.ecss.2013.04.006).
81. Wheatcroft, R.A., Goñi, M.A., Richardson, K.N., Borgeld, J.C. (2013). Natural and human impacts on centennial sediment accumulation patterns on the Umpqua River margin, Oregon. *Marine Geology* **339**: 44-56 (doi: 10.1016/j.margeo.2013.04.015).
82. Goñi, M.A., O'Connor, A., Kuzyk, Z.Z., Yunker, M., Gobeil, C. (2013) Distribution and sources of organic matter in surface sediments across the North American Arctic margin. *Journal of Geophysical Research – Oceans* **118**: doi:10.1002/jgrc.20286.

83. Pasqual, C., Goñi, M., Tesi, T., Sanchez-Vidal, A., Calafat, A., Canals, M. (2013) Composition and provenance of terrigenous organic matter transported along submarine canyons in the Gulf of Lion (NW Mediterranean). *Progress in Oceanography*, <http://dx.doi.org/10.1016/j.pocean.2013.07.013>.

2014

84. Rushdi, A.I., Simoneit, B.R.T., DouAbul, A.A.Z., Al-Mutlaq, K.F., El-Mubarak, A.H., Qurban, M., Goñi, M.A., (2014) Occurrence and sources of polar lipid tracers in sediments from the Shatt al-Arab River of Iraq and the northwestern Arabian Gulf. *Science of the Total Environment*, **470-471**, 180-192, <http://dx.doi.org/10.1016/j.scitotenv.2013.09.048>.
85. Rushdi, AI, DouAbul, AAZ, Simoneit, BRT, El-Mubarak, AH, Al-Mutlaq, KF, Qurban, MAB, Goni, MA (2014) Nonpolar lipid tracers in sediments from the Shatt al-Arab River of Iraq and the northwestern Arabian Gulf, *Arabian Journal of Geosciences*, **7**, 5495-5508, doi 10.1007/s12517-013-1208-7.
86. Gray, A., Warrick, J.A., Pasternack, G.B., Watson, E.B., Goñi, M.A. (2014) Suspended sediment behavior in a coastal dry-summer subtropical catchment: Effects of hydrologic preconditions. *Geomorphology*. **214**, 485-501, <http://dx.doi.org/10.1016/j.geomorph.2014.03.009>.
87. Bianchi, T.S., Goñi, M.A., Allison, M.A., Chen, N., McKee, B.A. (2014). Sedimentary carbon dynamics of the Atchafalaya and Mississippi River Delta system and associated margin. In: *Biogeochemical Dynamics at Large River-Coastal Interfaces: Linkages with Global Climate Change* (Eds. T. Bianchi, M. Allison, W. Cai). Cambridge University Press, pp. 473-502.
88. Goñi, M.A., Moore, E., Kurtz A., Portier, E., Alleau, Y., Merrell, D., (2014) Organic matter compositions and loadings in soils and sediments along the Fly River, Papua New Guinea. *Geochimica et Cosmochimica Acta* **140**, 275-296, <http://dx.doi.org/10.1016/j.gca.2014.05.034>.

2015

89. Chen, S., Torres, R., Goñi, M.A. (2015) Intertidal zone particulate organic carbon redistribution by low-tide rainfall-runoff. *Limnology and Oceanography* **60**, 1088-1101, doi: 10.1002/lno.10077.
90. Winterfeld, M., Goñi, M.A., Just, J., Hefter, J., Mollenhauer, G. (2015) Characterization of particulate organic matter in the Lena River delta and adjacent nearshore zone, NE Siberia – Part 2: Lignin-derived phenol compositions. *Biogeosciences* **12**, 2261–2283, doi:10.5194/bg-12-2261-2015.
91. Gray A.B, Pasternack, G.B., Watson E.B., Warrick J.A., Goñi, M.A. (2015) Effects of antecedent hydrologic conditions, time dependence, and climate cycles on the suspended sediment load of the Salinas River, California. *Journal of Hydrology* **525**, 632-649, doi:10.1016/j.jhydrol.2015.04.025.
92. Gray, A., Pasternack, G.B., Watson, E.B., Warrick, J.A., Goñi, M.A. (2015) The effect of El Niño Southern Oscillation cycles on the decadal scale suspended sediment behavior of a coastal dry-summer subtropical catchment. *Earth Surface Processes and Landforms* **40**, 272-284, doi: 10.1002/esp.3627.

2016

93. Gray, A.B., Pasternack, G.B., Watson, E.B., Goñi, M.A., Hatten J.A., Warrick, J.A. (2016) Conversion to drip irrigated agriculture may offset historic anthropogenic and wildfire contributions to sediment production. *Science of the Total Environment*. DOI: 10.1016/j.scitotenv.2016.03.018.
94. Gray, A.B., Pasternack, G.B., Watson, E.B., Goñi, M.A. (2016) Abandoned channel fill sequences in the tidal estuary of a small mountainous, dry-summer. *Sedimentology*. DOI: 10.1111/sed.12223
95. Chen, S., Goñi, M.A., Torres, R. (2016) The Role of Salt Marsh Structure in the Distribution of Surface Sedimentary Organic Matter. *Estuaries and Coasts*. DOI: 10.1007/s12237-015-9957-z.
96. Hatten, JA., Goñi, M.A. (2016) Cupric oxide (CuO) oxidation detects pyrogenic carbon in burnt organic matter and soils. *PLOS ONE*. DOI: 10.1371/journal.pone.0151957.

2017

97. Kuzyk, Z.Z., Gobeil, C., Goñi, M.A., Macdonald R. (2017) Early Diagenesis and Trace Element Accumulation in North American Arctic Margin Sediments. *Geochimica et Cosmochimica Acta*. DOI: 10.1016/j.gca.2016.12.015.

98. Godin, P., R. W. Macdonald, Z. Z. A. Kuzyk, M. A. Goñi, and G. A. Stern (2017), Organic matter compositions of rivers draining into Hudson Bay: Present-day trends and potential as recorders of future climate change, *J. Geophys. Res. Biogeosci.*, 122, 1848–1869, doi:10.1002/2016JG003569.

Reports, conference proceedings, etc.

99. Goñi M. A., Eglinton T. I. and Boon J. J. (1993) Compound specific isotopic analysis of lignin-derived phenols from plant tissues and sediments. *16th International Meeting on Organic Geochemistry*. September 20-24, pp. 539-543.
100. Goñi M. A., Irvine J. E. and Eglinton T. I. (1995) A combined quantitative and isotopic approach for characterization of terrestrial biopolymers in marine sediments. *17th International Meeting on Organic Geochemistry*. September 4-8, pp. 945-947.
101. Goñi M. A., Kokinos J. P., Hatcher P. and Eglinton T. I. (1995) Chemical, pyrolytic and spectroscopic characterization of resistant biopolymer(s) present in pollen. *17th International Meeting on Organic Geochemistry*. September 4-8, pp. 983-985.
102. Rittenberg K. C. and Goñi M. A. (1995) Characterization of organic carbon:phosphorous ratios in arctic, temperate, and tropical coastal sediments. *17th International Meeting on Organic Geochemistry*. September 4-8, pp. 1147-1149.
103. Allison M. A., Dellapenna T.S., Goñi M.A., Sheremet, A. (2007) Impacts of Hurricanes Katrina and Lili on the inner shelf of the Mississippi-Atchafalaya Delta. In: *Coastal Sediments 2007, Proceedings of 6th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes*. N.C. Kraus and J.D. Rosati (Eds.). American Society of Civil Engineering, Reston, VA, pp. 882-887.
104. Bauer J., Goñi M. and McKee B. (2008) North American Rivers and Estuaries. In: *North American Continental Margins: A Synthesis and Planning Workshop*. Report of the North American Continental Margins Working Group for the U.S. Carbon Cycle Scientific Steering Group and Interagency Working Group. B. Hales, W.J. Cai, B.G. Mitchell, C.L. Sabine, and O. Schofield (Eds.). U.S. Carbon Cycle Science Program, Washington, D.C., 110 pp.
105. Benway, H., Alin, S., Boyer, E., Cai, W.-J., Coble, P., Cross, J., Friedrichs, M., Goñi, M., Griffith, P., Herrmann, M., Lohrenz, S., Mathis, J., McKinley, G., Najjar, R., Pilskaln, C., Siedlecki, S., Smith, R. 2016. A Science Plan for Carbon Cycle Research in North American Coastal Waters. Report of the Coastal CARbon Synthesis (CCARS) community workshop, August 19-21, 2014, Ocean Carbon and Biogeochemistry Program and North American Carbon Program, 84 pp.

TEACHING AND ADVISING

Postdocs (period and current employment)

- Ralph Mead (Post-Doc, 2003-2005, University North Carolina, Willmington)
Jeff Hatten (Post-Doc, 2007-2009, Oregon State University)
Tommaso Tesi (Post-Doc, 2008-2010, Stockholm University)

Students Thesis Advisor (major professor at Oregon State University)

- Rachel Holser, M.S., COAS, OSU 2009 (co-advised with B. Hales)
Roxanne Hastings, M.S., COAS, OSU 2010 (co-advised with R. Wheatcroft)
Stephen Pacella, Ph.D., CEOAS, OSU 2014 (currently advised by G. Waldbusser)
Maggie Buktenica, MS, CEOAS, OSU 2017 (co-advised with L. Juranek)

Undergraduate Students (with research projects)

- Christina Loewy, B.S., Engineering, OSU 2007
Chris Reade, B.S., Engineering, OSU 2006
David Merrel, B.S., Engineering, OSU 2007
Daniella Jansik, B.S., Engineering, OSU 2006
Casey Sande, B.S., Education, OSU 2007
Eman Rushdi, B.S., Pharmacy, OSU 2008
Conner Burck, B.S., Geosciences, OSU 2009

Erik Mulrooney, B.S., Biology, OSU 2010
Una Monaghan, B.S., Honor's College, OSU, 2009
Trevor Nace, B.S., Univ. of North Carolina – 2007 Summer REU
Benjamin Klein, B.S., Amherst College – 2008 Summer REU
Kether Schrarff-Gray, B.S., University of New England – 2008 Summer REU
Aparna Narayan, B.S., Chemistry, OSU 2009
Maryann Tkverk, B.S. Haverford College – 2009 Summer/2010 Winter REU
Jessica Bechler, B.S., Biological Sciences, OSU, 2011
Danielle Asson, B.S., Biological Sciences., OSU, 2011
Danielle Heston, B.S., Geosciences, OSU, 2012
Jennifer Nguyen, B.S., Biochemistry, OSU, 2012
Evan Portier, B.S., Univ. California Berkley – 2010 Summer REU
Alison O'Connor, B.S., Oberlin College – 2010 Summer REU
Lauren Smith, B.S., Biology, OSU, 2013
Minh-Chau Nguyen, B.S., Biology, OSU, 2013
Caroline Coccoli, B.S., Northwestern Univ. – 2013 and 2014 Summer REU
Lauren Kolczynski, B.S., Engineering, OSU, 2014
Jackie Helm, B.S., Biochemistry, OSU, 2014
Laura Moore, B.S., St. Olaf College – 2015 and 2016 Summer REU
Lina Davidson, B.S., Barnard College – 2015 Summer REU
Elizabeth Corvi, B.S., Environmental Sciences, OSU, 2016
Kylie Welch, B.S., Environmental Sciences, OSU, 2015
Kaitlin Lebon, B.S., Marine Science, OSU, 2017
Carrie Weekes, B.S., Marine Science, OSU, 2017
Emmanuel Alegria, B.S., Oceanography, OSU, 2018
Erin Guillory, B.S., Oceanography, OSU, 2018

Students Thesis Advisor (major professor at University of South Carolina)

David Hartz, M.S., Geological Sciences, 8/96 – 10/98
Christine Jones, M.S., Geological Sciences, 8/96 – 3/99
Elizabeth Gordon, Ph.D., Marine Science, 8/97 – 10/04
Maria Teixeira, M.S., Geological Sciences, 8/99 – 10/00
Thomas Kastner, M.S., Geological Sciences, 8/99 – 10/01
Lisa Maroney, M.S., Marine Sciences, 1/00 – 5/05
Mary Cathey, M.S., Geological Sciences, 8/00 – 10/02
Mark Woodworth, Ph.D., Geological Sciences, 8/00 – present

Undergraduate Students (with research projects)

Kimberly Thomas, B.S., Marine Science, Honor's Thesis, 1998
Rachel Potter, B.S., Marine Science, 1998
David Perkey, B.S., Marine Science, 1999
Kyle Peterson, B.S., Marine Science, 2000
Raja Byrnside, B.S., Marine Science, 1999
Gabrielle Griffin, B.S., Marine Science, 1999
Quinn Roberts, B.S., Marine Science, 2001
Natasha Pratt, B.S., Marine Science, 2001
Molly Malloy, B.S., Geological Sciences, 2002
Tony Jones, B.S., Geological Sciences, 2002
Natalie Monacci, B.S., Marine Science, 2003
Lisa Addington, B.S., Marine Science, 2003
Sean Courtney, B.S., Marine Science, 2003
Thomas Wissing, B.S., Marine Science, 2003
Rebecca Clinton, B.S., Marine Science, 2004

Heather Bartley, B.S., Geological Sciences, 2003
Vanessa Michelou, B.S., Marine Science, 2004
Rachel Gisewhite, B.S., Marine Science, 2005
Urijah Corbett, B.S., Marine Science, 2005
Alan Mehrzad, B.S., Marine Science, 2006

Students Advisory Committee (at Oregon State University)

Anna Pakenham. M.S. Biological Oceanography, 2008
Matt Wolhowe. M.S. Chemical Oceanography, 2008
Christina Folger. M.S. Biological Oceanography, 2009
Matt Alkire (interim member). Ph.D. Chemical Oceanography, 2009
Brent Matteson, Ph.D. Chemistry, 2010
Iria Gimenez, Ph.D. Ocean Sciences, 2016
Laurel Stratton, Ph.D., Water Resources, 2017
James E. Lee, Ph.D., Geosciences, 2018

Students Advisory Committee (at University of South Carolina)

Philip D. Moore. Ph.D., Geological Sciences, 1998
Stefka Nikolova. Ph.D., Geological Sciences, 1999
Sean Ryan. Ph.D., Geological Sciences, 2001
Julie Fridell. Ph.D., Geological Sciences, 2001
Kathy Tedesco. Ph.D., Geological Sciences, 2002
Chris Hintz. Ph.D., Marine Science, 2004
Nobu Kawasaki. Ph.D., Marine Science, expected 2006
Andy Bruening. Ph.D., Geological Sciences, expected 2006
Yong Kim. Ph.D., Geological Sciences, expected 2006
David Shelley. Ph.D., Geological Sciences, expected 2007
Stephanie Healey. Ph.D., Geological Sciences, expected 2007
Martha McConnell. Ph.D., Geological Sciences, expected 2007
Michelle Hardee. Ph.D., Geological Sciences, expected 2008
Kimberly Lough. M.S., Geological Sciences, 1995
Andrew Crotwell. M.S., Geological Sciences, 1998
Edward Emmer. M.S., Geological Sciences, 1999
Kelly Peters. M.S., Geological Sciences, 1999
Robbie King. M.S., Geological Sciences, 2001
Britt Perlett. M.S., Geological Sciences, 2001
Travis Williams. M.S., Geological Sciences, 2001
Kate Visser. M.S., Geological Sciences, 2002
Josh Miller. M.S., Geological Sciences, 2002
Stephanie Healey. M.S., Geological Sciences, 2002
Jen Josef. M.S., Geological Sciences, 2003
Martha McConnell. M.S., Geological Sciences, 2004
Rahul Sahajpal. M.S., Geological Sciences, 2003
Kanchan Maiti. M.S., Geological Sciences, 2005
Suzanne Havach. M.S., Marine Sciences, 1998
Melissa Ranhoffer. M.S., Marine Sciences, 2005
Christine Muir. B.S., Marine Science, Honor's College Thesis, 1998
Jennifer Marsalis. B.S., Geological Sciences, Honor's College Thesis, 2001

Students Advisory Committee (at other universities)

Patrick Louchouart. Ph.D., Oceanography, 1997. Université du Quebec a Montreal (Canada).
Shelagh Montgomery. Ph.D., Environmental Sciences, 1999. Université Quebec a Montreal (Canada).

Pilar Tinoco. Ph.D., Soil Science, 1999. Universidad Complutense de Madrid (Spain).
Tommaso Tesi, Ph.D., Oceanography, 2007. University of Bologna (Italy).
Zou Zou Kuzyk, Ph.D., Oceanography, 2008. University of Winnipeg (Canada).
Si Chen, M.S., Geological Sciences, 2009. University of South Carolina
Eric Moore, Ph.D., Geological Sciences, Boston University
Si Chen, Ph.D., Marine Sciences, 2012. University of South Carolina
Catalina Pascual, Ph.D., Marine Geosciences, 2011. Universitat de Barcelona (Spain)

Graduate Council Representative (at University of South Carolina)

Christopher Nietch. Ph.D., Biological Sciences, 2001
P.V. Sundareshwar. Ph.D., Biological Sciences, 2001
Spencer Walse. Ph.D., Chemistry and Biochemistry, 2003
Bryan Kirtland. Ph.D., Environmental Public Health, 2003
Russell Ziegler. M.S., Chemistry and Biochemistry, 2000
Amy R. Stefan. M.S., Chemistry and Biochemistry, 2005
Brian Kirtland. M.S., Environmental Public Health, 1999

Research Technicians

Kylie Welch, CEOAS, OSY 2016-present
Yvan Alleau, COAS, OSU 2005-2015
Andrew Stevens, COAS, OSU Oct-2005
Bryan Benitez Nelson, Dept. of Geological Sciences, Univ. South Carolina 2004-2005
Natalie Monacci, Dept. of Geological Sciences, Univ. South Carolina 2003-2005
Heather Aceves, Dept. of Geological Sciences, Univ. South Carolina 1999-2003
Rachel Potter, Dept. of Geological Sciences, Univ. South Carolina 1998
Audrey Thompson, Dept. of Geological Sciences, Univ. South Carolina 2000

Courses Taught

Graduate Courses (OSU)

- OC 507 – Seminar Ocean Ecology and Biogeochemistry
- OC 522 – Ocean Biogeochemical Dynamics
- OC 599 (New Course) – Ocean Biogeochemical Dynamics
- OC 550 – Chemical Oceanography
- OC 656 – Marine Organic Geochemistry
- OC 652 – Chemical Oceanography Lab

Undergraduate Courses (OSU)

- OC 295 – Introduction to Field Oceanography
- OC 103 – Exploring the Deep
- OC 450 (New Course) – Chemical Oceanography (undergraduate course for new major)
- OC 407 - Biogeochemical Oceanography Seminar
- OC 401 – Research Projects

Graduate Courses (Univ. South Carolina)

- Introduction to Geochemistry
- Chemical Oceanography
- Organic Geochemistry
- Stable Isotope Geochemistry
- Seminar in Marine Sciences
- Seminar on Estuarine Processes
- The Global Carbon Cycle

- Analytical Techniques in Stable Isotope Mass Spectrometry.

Undergraduate Courses (Univ. South Carolina)

- Earth System History
- Evolution of the Marine Environment
- Introduction to Geochemistry
- Earth Resources
- Coastal Environments of the Southeast
- Directed Independent Studies
- Oceanographic Techniques.

RESEARCH

Funded Proposals

1. Quantitative characterization of terrestrially-derived organic matter in recent and ancient marine sediments. National Science Foundation (OCE). PI: Timothy Eglinton. Co-PI: Miguel Goñi. Project Dates: 5/92 -11/96. Total Amount: \$463,656.
2. Estimation of the sources and fates of organic matter in a Southeastern salt marsh (North Inlet, South Carolina). R&PS Award (Univ. South Carolina). PI: Miguel Goñi. Project Dates: 11/95-11/96. Total Amount: \$10,000.
3. Non-Point Sources of Dissolved Organic Matter to the Ocean: Groundwaters from Coastal Soils and Sediments. National Science Foundation CAREER (OCE). PI: Miguel Goñi. Project Dates: 6/97-5/01. Total Amount: \$349,998.
4. Controls on terrigenous organic carbon inputs to the Gulf of Mexico over glacial/interglacial scales. National Science Foundation (OCE). PI: Miguel Goñi. Project Dates: 12/97-11/00. Total Amount: \$252,922.
5. Ground water inputs of dissolved organic matter to North Inlet. Baruch Institute Graduate Student Research Award. Project Dates: 05/97-08/97. Total Amount: \$2,500.
6. The role of fluid muds in sediment transport along a muddy coast. Boston College/Office of Naval Research. PI: Gail Kineke (Supervised at USC by Miguel Goñi). Project Dates: 10/97-10/98. Total Amount: \$18,863.
7. Organic carbon fluxes and accumulation in Cariaco Basin. National Science Foundation (OCE) PI: Robert Thunell. Co-PI: Miguel Goñi. Project Dates: 06/98-05/01. Total Amount: \$443,544.
8. Acquisition of Irm-GC-MS instrumentation for global biogeochemical research. National Science Foundation (MRI-OCE). PI: Miguel Goñi. Project Dates: 06/99- 05/01. Total Amount: \$454,650.
9. Terrestrial biomarker and stable isotope analyses of Amazon Fan sediments – A record of continental tropical climate change over the last 100,000 years. Petroleum Research Fund (American Chemical Society). PI: Miguel Goñi. Project Dates: 01/00-08/02. Total Amount: \$60,000.
10. Development of pollution detection technology in the Molecular Stable Isotope facility at USC. South Carolina Commission of Higher Education (Research Grant Program). PI: Miguel Goñi. Project Dates: 01/00-12/00. Total Amount: \$98,972.
11. A multidisciplinary approach to quantify and model the transport and deposition of organic pollutants in coastal environments. Environmental Protection Agency (EPA/EPSCOR). PI: Miguel Goñi; Co-PI's: George Voulgaris, John Ferry. Project Dates: 11/01-10/03. Total Amount: \$402,555.
12. Collaborative Research: Particulate organic carbon fluxes and sediment accumulation in the Cariaco Basin. National Science Foundation (OCE). PI: F. Muller-Karger; Co-PI's: R. Weisberg, M. Scranton, G. Taylor, R. Thunell, M. Goñi. Project Dates: 10/01-9/03. Total Amount (to USC): \$294,809.
13. Processes controlling organic carbon turnover and sequestration in the land-ocean margin off the Atchafalaya River/Louisiana Shelf. National Science Foundation (OCE). PI: Miguel Goñi. Project Dates: 10/02-09/05. Total Amount: \$200,028.
14. Dispersion, cycling and burial of organic carbon in a river-dominated margin: The Fly River/Gulf of Papua shelf. National Science Foundation (OCE). PI: Miguel Goñi. Project Dates: 09/02-08/05. Total Amount: \$360,231.

15. Acoustic measurements of POC concentrations in the coastal ocean. NOAA Global Change Program. PI: Miguel A. Goñi; Co-PI: George Voulgaris. Project Dates: 05/04-05/07. Total Amount: \$400,538.
16. A High Resolution Record of Upwelling in the Tropical Atlantic: Atmospheric Forcings and Biogeochemical Consequences. NSF – ESH. PI: Miguel Goni. Project Dates: 9/05-8/08. Total Amount: \$313,967.
17. SGER: Mobilization and deposition of organic matter along the Louisiana coast following Hurricane Katrina. National Science Foundation (OCE). PI: Miguel Goñi. Project Dates: 10/15/05-10/14/07. Total Amount: \$128,854.
18. Collaborative Research: Net carbon transport and reaction in the bottom boundary layer of an upwelling margin. NSF (OCE). PI: Burke Hales; Co-PIs include: R. Kipp Shearman, Zanna Chase, Miguel Goni, Robert Collier. Project Dates: 01/07-12/09. Total Amount (OSU): \$1,893,778.
19. Collaborative Research: Delivery and Burial of POC on Ocean Margins Dominated by Small, Mountainous Rivers: the Role of Effective Discharge NSF (EAR). PI: Miguel A. Goñi; Co-PIs: Rob Wheatcroft, Greg Pasternack (UC, Davis), Jon Warrick (UC, Santa Cruz), Jeff Borgeld (Humboldt State University). Project Dates: 02/07-02/11. Total Amount (OSU): \$932,311.
20. Collaborative Research: Rainfall-driven Intertidal Zone Carbon Cycling. NSF (OCE). PI: Raymond Torres (Univ. South Carolina); Co-PI: Miguel A. Goñi. Project Dates: 7/07-6/10 Total Amount (OSU): \$214,760.
21. A Non-Point Source of Contaminants to the Estuarine Food Web. CALFED. PI: Ray Torres (Univ. South Carolina); Co-PI's: Brian Bergamaschi (USGS, Sacramento); Jacob Fleck (USGS, Sacramento); Miguel A. Goñi (OSU). Total Amount (OSU): \$164,188.
22. Collaborative Research: Geomorphodynamic Modulation of Biogeochemical Fluxes and Basin Stratigraphy of the Fly River. National Science Foundation (OCE). PI: Miguel A. Goñi; Co-PIs: J.W. Lauer (Seattle University), W.E. Dietrich (Univ. California, Berkeley), R. Aalto (Exeter University, UK), A.K. Aufdenkampe (Stroud Water Research Center). Total Amount (OSU): \$414,585.
23. Compositional changes of sedimentary organic matter from a 100-year flood deposit: insights into event-driven processes in the coastal ocean. Subaward from Consiglio Nazionale delle Ricerche (Italy). PI: T. Tesi. Total Amount (OSU): \$56,666.
24. Analyses and interpretation of biomarkers in Arctic margin sediments. Subaward from Fisheries & Oceans Canada. PI: M. Goni. Total Amount (OSU): \$110,000.
25. SGER: Rapid response to California wildfires: Effect of fire on delivery of organic carbon to the fluvial system NSF (DEB). Project Dates: 01/15/09-12/31/10. Total Amount: \$52,603.
26. Holocene climate change in the high latitudes of the North American continent: reconstruction of vegetation and fire histories using Hudson Bay sediment records. NSF (P2C2). Project Dates: 10/01/2009 – 9/30/2012. Total Amount: \$384,969.
27. Water column POM dynamics in Cascadia Margin: effects/controls on seasonal hypoxia and acidification. NSF (OCE). Project Dates: 02/01/2011 – 01/31/2013. Total Amount: \$266,162.
28. The role of estuaries in modulating the export of particle-bound biogenic materials by small mountainous rivers to Cascadia Margin. NSF (OCE). Project Dates: 09/01/11 – 08/31/14. Total Amount: \$701,617.
29. Coastal Ocean Carbon Cycling during Wintertime Conditions. A. White and K. Sherman (co-PIs). NSF (OCE). Project Dates: 03/15/15 – 03/14/17. Total Amount: \$ 756,682.
30. Acquisition of State-of-the-art Microwave Hydrolysis/Extraction System. Oregon State University's Research Equipment Reserve Fund. Project Dates: 03/12/15 – 03/11/16. Total Amount: \$40,000.
31. Late Season Productivity, Carbon, and Nutrient Dynamics in a Changing Arctic. L. Juranek (PI), B. Hales (co-PI). NSF (PLR – Arctic Natural Sciences). Project Dates: 05/01/15 – 04/30/18. Total Amount: \$1,159,146.
32. Determining Mechanisms and Rates of Geologic Respiration at Watershed Scales. J. Pett-Ridge (PI), B. Haley (co-PI). NSF (EAR-Low Temp Geochemistry). Project Dates: 09/01/17 – 08/31/19. Total Amount: \$196,422

Major Seagoing/Field Expeditions

- April 1993, RV Oceanus, Gulf of Maine cruise, Coring, water sampling, chemistry and biology, participant
- March-May 1994, RV JOIDES Resolution, ODP cruise Leg 155: Amazon Deep Sea Fan, scientist
- March 1997, RV Pelican, Gulf of Mexico cruise, coring, water sampling, participant
- October 1997, RV Pelican, Gulf of Mexico cruise, coring, water sampling, participant
- March 1998, RV Pelican, Gulf of Mexico cruise, coring, water sampling, participant
- April 1998, RV Pelican, Gulf of Mexico cruise, coring, water sampling, chief scientist
- June 1998, RV Hermano Gines, Cariaco Basin cruise, sediment trap, coring, participant
- November 1998, RV Hermano Gines, Cariaco Basin cruise, sediment trap, coring, participant
- May 1999, RV Hermano Gines, Cariaco Basin cruise, sediment trap, coring, participant
- May 2000, RV Hermano Gines, Cariaco Basin cruise, sediment trap, coring, chief scientist
- August 2000, RV Cape Hatteras, South-Atlantic Bight cruise, water sampling, participant
- November 2000, RV Hermano Gines, Cariaco Basin cruise, sediment trap, coring, participant
- March 2001, RV Pelican, Gulf of Mexico cruise, coring, water sampling, participant
- May 2002, RV Susan Hudson, Winyah Bay cruise, water sampling, chief scientist
- October 2002, RV Longhorn, Hurricane Lili rapid response Gulf of Mexico cruise, coring, water sampling, chief scientist
- November 2002, RV Hermano Gines, Cariaco Basin cruise, sediment trap, coring, participant
- January 2003, RV Western Venturer, Fly River Delta/Gulf of Papua cruise, coring, water sampling, participant
- August-September 2003, RV Melville, Gulf of Papua cruise, coring, water sampling, co-chief scientist
- November, 2003, RV Hermano Gines, Cariaco Basin cruise, sediment trap, coring, participant
- December, 2003, RV Pelican, Gulf of Mexico cruise, coring, water sampling, chief scientist
- January-February, 2004, RV Melville, Gulf of Papua cruise, coring, water sampling, co-chief scientist
- April-May, 2004, RV Melville, Gulf of Papua cruise, coring, water sampling, co-chief scientist
- March 2005, NOAA Vessel Nancy Foster, Winyah Bay cruise, water sampling, chief scientist
- October 2005, RV Cape Hatteras, Hurricanes Katrina and Rita rapid response, coring, waters sampling, mapping, co-chief scientist
- May 2006, RV Coral Sea, Eel Shelf flood response cruise, coring, participant
- July 2008, Field program in North Inlet (SC), marsh sampling, chief scientists
- Summer 2008, RV Elakha, coastal cruises off Oregon coast, water sampling, chief scientist
- September, 2008, RV Wecoma, Seasonal Upwelling, Coastal Carbon Export and Sequestration (SUCCES) off Oregon coast; B. Hales chief scientist.
- October, 2008. RV Shana Rae. Coring off Salinas River in Monterey Bay.
- May 2009. RV Wecoma, RV Wecoma, Seasonal Upwelling, Coastal Carbon Export and Sequestration (SUCCES) off Oregon coast; B. Hales chief scientist.
- June-July, 2009. RV Wecoma, Carbon delivery/deposition to US west coast. Coring cruise off Oregon and California rivers, chief scientist.
- July-August, 2009. RV Wecoma, Seasonal Upwelling, Coastal Carbon Export and Sequestration (SUCCES) off Oregon coast; B. Hales chief scientist.
- August-September, 2010. Fly/Strickland River/Upland Field Program in Papua New Guinea. Aalto, Lauer, Aufdenkampe & Goni.
- April 28-May 6, 2011. RV Wecoma, Seasonal hypoxia off Cascadia; B. Hales chief scientist.
- August 11-September 3, 2011. RV Wecoma, Seasonal hypoxia off Cascadia; R. Feely/L. Juranek chief scientists.
- September 6-12, 2011. RV Wecoma, Seasonal hypoxia off Cascadia; B. Hales chief scientist.
- October 3-25, 2012. UCGC Healy, Mooring turn-arounds and hydrographic survey in Chukchi and Beaufort Seas; R. Pickart/J. Mathis chief scientists.
- November 2013-April 2014. Intensive small-boat surveying & sampling in Alsea Bay, Oregon. M. Goni chief scientist.

- November 2014-April 2015. Intensive small-boat surveying & sampling in Alsea Bay, Oregon with Jim Lerczak's group. M. Goni chief scientist.
- October 11-17, 2015. River sampling along Eel and Umpqua catchemnts with B. Haley. M. Goni, lead.
- January 20-27, 2016. RV Oceanus, Coastal carbon dynamics in Winter. Newport to Newport with A. White and K. Shearman's groups. M. Goni chief scientist.
- February 11-18, 2016. RV Oceanus, Coastal carbon dynamics in Winter. Newport to Newport with A. White and K. Shearman's groups. M. Goni chief scientist.
- February 18-21, 2016. River sampling along Oregon coastal catchemnts. M. Goni, lead.
- March 10-18, 2016. RV Oceanus, Coastal carbon dynamics in Winter. Newport to Newport with A. White and K. Shearman's groups. M. Goni chief scientist.
- March 19-25, 2016. RV Oceanus, OC295 Undergraduate Student Cruise. Newport to Newport. R. Wheatcroft, chief scientist. K. Bernard & M. Goni co-chief scienct.
- August-September 2016. RV Sikuliaq, Late season productivity in a changing Arctic. Seward to Nome. L. Juranek, chief scientist.
- December 5-10, 2016. RV Oceanus, Coastal carbon dynamics in Winter. Newport to Newport with A. White and K. Shearman's groups. M. Goni chief scientist.
- January 12-15, 2017. RV Oceanus, Coastal carbon dynamics in Winter. Newport to Newport with A. White and K. Shearman's groups. M. Goni chief scientist.
- March 27-31, 2017. RV Oceanus, OC295 Undergraduate Student Cruise. Newport to Newport. R. Wheatcroft, chief scientist. K. Bernard & M. Goni co-chief scienct.
- April 10-23, 2017. RV Sikuliaq. OOI Cruise. Newport to Newport. L. Juranek, chief scientist.

MISCELLANEOUS/OTHERS

Reviewer of an average of ten manuscripts per year from several scientific journals including: Nature, Geochimica et Cosmochimica Acta, Global Biogeochemical Cycles, Organic Geochemistry, Marine Chemistry, Continental Shelf Research, Limnology and Oceanography, Estuarine Shelf Research, Journal of High Resolution Chromatography, Oceanologia Acta.

Reviewer of an average of six proposals per year from several agencies including: National Science Foundation (Ocean Sciences Division, Marine Geology and Geophysics and Chemical Oceanography panels), Petroleum Research Fund (American Chemical Society), Department of Energy, and National Environmental Research Council (United Kingdom).