

# CURRICULUM VITAE

Mead A. Allison

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## **Education**

B.S. (*Geology*) 1985, College of William & Mary, Williamsburg, Virginia  
M.S. (*Geology*) 1988, East Carolina University, Greenville, North Carolina  
Ph.D. (*Oceanography*) 1993, State University of New York, Stony Brook, New York  
Dissertation: *"Mechanisms of coastal progradation and muddy strata formation adjacent to the Amazon River"*

## **Research Interests**

Sedimentary processes of continental margin environments, particle-reactive radiotracers for geochronology, processes of strata formation, high-concentration suspended sediment/cohesive seabed interactions, acoustic and optical seafloor mapping, sediment transport in river channels, microfabric of modern sediments, use of GIS/remote sensing analysis for examining coastal geological processes

## **Professional Experience**

2007 - Senior Research Scientist, Institute for Geophysics, University of Texas  
2007 Professor, Dept. of EES, Tulane University  
2002 - 2006 Associate Professor, Department of EES, Tulane University  
2004 J. William Fulbright Fellow, University of Paris, France  
1999-2002 Assistant Professor, Department of EES, Tulane University  
Dec. 1994-1999 Assistant Professor, Department of Oceanography, Texas A&M University  
1993-1994 Postdoctoral Scholar, Woods Hole Oceanographic Institution, Department of Geology & Geophysics  
1985-1993 Graduate Research/Teaching Assistant

## **Professional Affiliations**

American Association of Petroleum Geologists  
American Geophysical Union  
Coastal Education and Research Foundation (CERC)  
Geological Society of America  
International Association of Sedimentologists  
Sigma Xi  
Society for Sedimentary Geology (SEPM)

## **Graduate Advisors**

Stanley Riggs (M.S.), Charles Nittrouer (PhD)  
David Aubrey (Postdoctoral-WHOI), Bill Schwab (Postdoctoral-USGS Woods Hole)

## **Publications (\* denotes student in my lab)**

### ***Special Volumes/Monographs***

Allison, M.A., DeGaetano, A.T., and Pasachoff, J.M., 2005. *Earth Science*, Holt-Reinhart and Winston, 954 p.

*Material Exchange Between Mangrove Systems and the Coastal Ocean*. F. Baltzer, M. Allison, F. Fromard (eds.), *Marine Geology Special Volume*, 2004. 208(2-4):113-225.

*A Study of Sedimentation in the Brahmaputra-Jamuna Floodplain*. 1995. FAP16 Sedimentation Working Group (M. Allison, S. Kuehl, H. Brammer, D. Barua, T. Martin), *Bangladesh Flood Action Plan, US Agency for International Development*, 188 p.

### ***Papers***

Bianchi, T.S. and Allison, M.A., 2009. Large-river delta-front estuaries as natural “recorders” of global environmental change. *Proceedings of the National Academy of Sciences* 106:8085-8092.

Jaramillo S., Sheremet, A., Allison, M.A., Reed, A. and Holland, K.T., and Reed, A.H., 2009. Wave-mud interactions over the muddy Atchafalaya subaqueous clinoform, Louisiana, United States: wave-supported sediment transport. *J. Geophysical Research-Oceans* 114:C04002, doi:10.1029/2008JC004821.

Mitra, S., Lalicata, J.J., Allison, M.A., and Dellapenna, T.M. 2009. The effects of Hurricanes Katrina and Rita on seabed polycyclic aromatic hydrocarbon dynamics in the Gulf of Mexico. *Marine Pollution Bulletin* 58:851-857.

\*Wilson, C.A. and Allison, M.A., 2008. Sediment dynamics and geomorphology of eroding marsh shorelines in southeastern Louisiana. *Estuarine, Shelf and Coastal Science*, 80:483-494.

Bianchi, T.S., Allison, M.A., Chapman, P., Cowan, J.H., Jr., DiMarco, S.F., Hetland, R.D., Morse, J.W., and Rowe, G.T., submitted. Controlling hypoxia on the Louisiana Shelf (USA): beyond the nutrient-centric view. *EOS—Transactions of the American Geophysical Union* 89: doi:10.1029/2008EO260005.

Mayer, L.M., Schick, L.L., and Allison, M.A., 2008. Input of nutritionally rich organic matter from the Mississippi River to the Louisiana coastal zone. *Estuaries and Coasts* 31:1052-1062.

- \*Nittrouer, J.A., Allison, M.A., and Campanella, R., 2008. Evaluation of bedload transport in the lower Mississippi River: implications for sand transport to the Gulf of Mexico. *J. Geophysical Research-Earth Surface Processes* 113, F03004, doi:10.1029/2007JF000795.
- \*Galler, J.J. and Allison, M.A., 2008. Estuarine controls on fine-grained sediment storage in the lower Mississippi and Atchafalaya Rivers. *Geological Society of America Bulletin* 120:386-398.
- Sampere, T.P., Bianchi, T.S., Wakeham, S.G., and Allison, M.A., 2008. Sources of organic matter in surface sediments of the Louisiana Continental margin: Effects of major depositional/transport pathways and Hurricane Ivan. *Continental Shelf Research* 28:2472-2487.
- Goni, M.A., Alleau, Y., Corbett, E.R., Walsh, J.P., Mallinson, D., Allison, M.A., Gordon, E., Petsch, S., and Dellapenna, T.M., 2007. The effects of Hurricanes Katrina and Rita on the seabed of the Louisiana Shelf. *The Sedimentary Record (SEPM)* 5:4-9.
- Bianchi, T.S., Galler, J.J., and Allison, M.A., 2007. Hydrodynamic sorting and transport of terrestrially derived organic carbon in sediments of the Mississippi and Atchafalaya Rivers. *Estuarine, Coastal and Shelf Science* 73:211-222.
- Mayer, L.M., Schick, L.L., Allison, M.A. and Bentley, S., 2007. Marine vs. terrigenous organic matter in Louisiana coastal sediments: The uses of bromine:organic carbon ratios. *Marine Chemistry* 107:244-254.
- Thieler, E.R., Butman, B., Schwab, W.C., Allison, M.A., Driscoll, N.W., Donnelly, J.P. and Uchupi, E., 2007. A catastrophic meltwater flood event and the formation of the Hudson Shelf Valley. *Palaeogeography, Palaeoclimatology, Palaeoecology* 246: 120–136
- Allison, M.A., Bianchi, T.S., McKee, B.A., and Sampere, T.P., 2007. Carbon burial on river-dominated continental shelves: impact of historical changes in sediment loading adjacent to the Mississippi River. *Geophysical Research Letters* L01606, doi:10.1029/2006GL028362
- Allison, M.A., Dellapenna, T.M., Goñi, M.A., and Sheremet, A., 2007. Impact of Hurricanes Katrina and Lili on the inner shelf of the Mississippi-Atchafalaya delta. *Proceedings of the International Conference on Coastal Sediments 07*. ISBN 0-7844-0926-9, 10 p.
- Jaramillo, S., Sheremet, A., and Allison, M.A., 2007. Field observations of wave-current-sediment dynamics, Atchafalaya shelf, Louisiana, USA. *Proceedings of the International Conference on Coastal Sediments 07*. ISBN 0-7844-0926-9, 11 p.
- Bianchi, T.S., Allison, M.A., Canuel, E.S., McKee, B.A., Wakeham, S.B. 2006. Evidence

for rapid export of riverine and shelf-derived organic matter into Mississippi Canyon. *EOS—Transactions of the American Geophysical Union* 87:565, 572-573

- Dellapenna, T.M., Allison, M.A., Gill, G., and Warnken, K., 2006. The role of shrimp trawling on resuspension in shallow estuaries. *Estuarine, Shelf and Coastal Science* 69:519-530.
- Goñi, M.A., Gordon, E.S., Monacci, N.M., Clinton, R., Gishewite, R., Allison, M.A., and Kineke, G.C., 2006. The effect of Hurricane Lili on the distribution of organic matter in the Inner Louisiana Shelf (Gulf of Mexico, USA). *Continental Shelf Research* 26:2260-2280.
- Jaramillo, S., Sheremet, A., and Allison, M.A., 2006. Wave propagation over a shallow muddy shelf: a field experiment. *Proceedings of the 30th International Conference on Coastal Engineering*, San Diego, CA, 8 p.
- Corbett, D.R., McKee, B.A., and Allison, M.A., 2006. Nature of decadal-scale sediment accumulation in the Mississippi River deltaic region. *Continental Shelf Research* 26:2125-2140.
- Allison, M.A., Sheremet, A., Gõni, 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.
- Kuehl, S.A., Allison, M.A., Goodbred, S.L., and Kudrass, H., 2005. Sedimentary processes and products of the modern Ganges-Brahmaputra delta. In: L. Giosan and J. Bhattacharya (eds.), *River Deltas: Concepts, Models and Examples*, Society for Sedimentary Geology (SEPM) Special Publication No. 83, p. 413-434.
- \*Neill, C.F. and Allison, M.A., 2005. Subaqueous deltaic formation on the Atchafalaya Shelf, Louisiana. *Marine Geology* 214:411-430.
- Draut, A.E., Kineke, G.C., Velasco, D.W., Allison, M.A., and Prime, R.J., 2005. Influence of the Atchafalaya River on recent evolution of the chenier plain inner continental shelf, northern Gulf of Mexico. *Continental Shelf Research* 25:91-112.
- McKee, B.A., Aller, R.C., Allison, M.A., Bianchi, T.S., and Kineke, G.C., 2004. Transport and transformation of dissolved and particulate materials on continental margins influenced by major rivers: benthic boundary layer and seabed processes. *Continental Shelf Research*, 24:899-926.
- Allison, M.A. and \*Lee, M.T. 2004. Sediment exchange between Amazon mudbanks and shore-fringing mangroves in French Guiana. *Marine Geology* 208:169-190.
- Baltzer, F., Allison, M.A., and Fromard, F. 2004. Material exchange between the continental

- shelf and mangrove-fringed coasts with special reference to the Amazon-Guianas coast. *Marine Geology* 208:115-126.
- \*Galler, J.J., Bianchi, T.S., Allison, M.A., Campanella, R., and Wysocki, L., 2003. Sources of aged terrestrial organic carbon to the Gulf of Mexico from relict strata in the Mississippi River. *EOS, Transactions of the American Geophysical Union*, 84:469-476.
- Allison, M.A., Khan, S.R., Goodbred, S.L., and Kuehl, S.A., 2003. Stratigraphic evolution of the late Holocene Ganges-Brahmaputra lower delta plain. *Sedimentary Geology* 155:317-342.
- \*Robb, B.K., Allison, M.A., and Dellapenna, T.M., 2003. Anthropogenic and natural controls on shoreface evolution along Galveston Island, Texas. *Proceedings of the International Conference on Coastal Sediments 03*. ISBN 981-238-422-7, 13 p.
- Warnken, K., Gill, G., Dellapenna, T.M., Harper, D.E., Allison, M.A., and Lehman, R., 2003. The effects of shrimp trawling on sediment oxygen consumption and the fluxes of trace metals and nutrients from estuarine sediments. *Estuarine, Coastal and Shelf Science* 57:25-42.
- Decho, A., Kawaguchi, T., Allison, M.A., Louchard, E., Stephens, C., Reid, P., Voss, K., Wheatcroft, R., and \*Taylor, B.B. 2003. Sediment properties influencing up-welling spectral reflectance signatures: the "biofilm gel effect". *Limnology and Oceanography* 48:431-443.
- Allison, M.A., 2002. 2.6.3.7 Deltas. In: Isla, F. (ed.), *Encyclopedia of Life Support Systems*, United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris, France, 16 p. Web (<http://www.eolss.net>) and CD-ROM publication.
- Allison, M.A. and \*Neill, C.F., 2002. Accumulation rates and stratigraphic character of the modern Atchafalaya River prodelta, Louisiana. *Transactions of the Gulf Coast Association of Geological Societies*, 52:1031-1040.
- Allison, M.A. and \*Kepple, E.B., 2001. Modern sediment supply to the lower delta plain of the Ganges-Brahmaputra River in Bangladesh. *Geo-Marine Letters*, 21:66-74.
- 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.
- Santschi, P.H., Guo, L., Asbill, S., Allison, M., \*Kepple, B., and Wen, L.-S., 2001. Accumulation rates and sources of sediments and organic carbon on the Palos Verdes shelf based on multiple radioisotopic tracers ( $^{137}\text{Cs}$ ,  $^{239,240}\text{Pu}$ ,  $^{210}\text{Pb}$ ,  $^{234}\text{Th}$ ,  $^{238}\text{U}$  and  $^{14}\text{C}$ ). *Marine Chemistry*, 73:125-152.

- Allison, M.A., Kineke, G.C., Gordon, E.S., and Goñi, M.A., 2000. Development and reworking of an annual flood deposit on the inner continental shelf off the Atchafalaya River. *Continental Shelf Research* 20:2267-2294.
- Allison, M.A., \*Lee, M.T., Ogston, A.S., and Aller, R.C., 2000. Origin of mudbanks along the northeast coast of South America. *Marine Geology* 163:241-256.
- Santschi, P.H., Allison, M.A., Asbill, S., and \*Perlet, A.B., 1999. Sediment transport and Hg recovery in Lavaca Bay, as evaluated from radionuclide and Hg distributions. *Environmental Science and Technology*, 33(3); 378-391.
- Allison, M.A., 1998. Historical changes in the Ganges-Brahmaputra delta front. *Journal of Coastal Research*, 14(4):1269-1275.
- Allison, M.A., and Nittrouer, C.A., 1998. Identifying accretionary mud shorefaces in the geologic record: insights from the modern Amazon dispersal system. In: J. Schieber, W. Zimmerle, and P.S. Sethi (eds.), *Mudstones and Shales: Recent Progress in Shale Research*, Schweizerbart Publishers, Stuttgart, pp. 147-161.
- Allison, M.A., 1998. Geologic framework and environmental status of the Ganges-Brahmaputra delta. *Journal of Coastal Research*, 14(3):826-837.
- Allison, M.A., Kuehl, S.A., Martin, T.D., and Hassan, A., 1998. The importance of floodplain sedimentation for river sediment budgets and terrigenous input to the oceans: insights from the Brahmaputra-Jamuna River. *Geology*, 26:175-178
- Kuehl, S.A., Levy, B.M., Moore, W.S., and Allison, M.A., 1997. Subaqueous delta of the Ganges-Brahmaputra river system. *Marine Geology*, 144:81-96.
- Schwab, W.C., Allison, M.A., Corso, W., \*Lotto, L.L., Butman, B., Buchholtz ten Brink, M., Denny, J.F., Danforth, W.W. and Foster, D.S., 1997. Initial results of high-resolution sea-floor mapping offshore of the New York-New Jersey metropolitan area using side-scan sonar. *Northeastern Geology and Environmental Sciences*, 19(4):243-262.
- Allison, M.A., Nittrouer, C.A., Faria, L.E.C., Silveira, O.M. and Mendes, A.C., 1996. Sources and sinks of sediment to the Amazon margin: the Amapa coast. *Geo-Marine Letters*, 16:36-40.
- Nittrouer, C.A., Kuehl, S.A., Figueiredo, A.G., Allison, M.A., Sommerfield, C.K., Rine, J.M., Faria, L.E.C., and Silveira, O.M., 1996. The geological record preserved by Amazon shelf sedimentation. *Continental Shelf Research*, 16:817-841.
- Kuehl, S.A., Nittrouer, C.A., Allison, M.A., Faria, L.E.C., Dukat, D.A., Jaeger, J.M.,

- Pacioni, T.D., Figueiredo, A.G., and Underkoffler, E.C., 1996. Sediment deposition, accumulation, and seabed dynamics in an energetic fine-grained coastal environment. *Continental Shelf Research*, 16:787-815.
- Allison, M.A., Nittrouer, C.A. and Kineke, G.C., 1995. Seasonal sediment storage on mudflats adjacent to the Amazon River. *Marine Geology*, 125:303-328.
- Allison, M.A. and Nittrouer, C.A. and Faria, L.E.C., 1995. Rates and mechanisms of muddy shoreline progradation and retreat downdrift of the Amazon River mouth. *Marine Geology*, 125:373-392.
- Allison, M.A., Kineke, G.C., Sternberg, R.W. and Nittrouer, C.A., 1994. Use of an instrumented tripod system to examine sediment dynamics and fine-scale strata formation in muddy surfzone and nearshore environments. *Journal of Coastal Research*, 10:488-496.
- Allison, M.A. and Riggs, S.R., 1994. Clay mineral suites in cyclic Miocene sediments from the North Carolina continental margin: A model for deposition in a mixed lithogenic-phosphatic-dolomitic-biogenic setting. *Journal of Sedimentary Research*, 64(A):386-395.
- Nittrouer, C.A., Kuehl, S.A., Rine, J.M., Figueiredo, A.G., Faria, L.E.C., Dias, G.T.M., Silva, M.A.M., Allison, M.A., Pacioni, T.D., Segall, M.P., Underkoffler, E.C., Borges, H.V. and Silveira, O.F., 1991. Sedimentology and stratigraphy of the Amazon continental shelf. *Oceanography*, 4:33-38.
- AMASSEDS Research Group, 1990. A Multidisciplinary Amazon Shelf Sediment Study. *EOS, Transactions of the American Geophysical Union*, 71:1771-1777.

***Technical Reports (peer reviewed)***

- Allison, M.A. and Duncan, D.A., 2006. Assessing Quantity and Quality of Sand Available in the Lower Atchafalaya River Channel for Coastal Marsh and Barrier Island Restoration in Louisiana. Final Technical Report for Subcontract C-190360, Governor's Applied Coastal Research and Development Program, Baton Rouge, 63 p.
- Allison, M.A. and \*Nittrouer, J.A., 2004. Assessing Quantity and Quality of Sand Available in the Lower Mississippi River Channel for Coastal Marsh and Barrier Island Restoration in Louisiana. Final Technical Report for Subcontract C-162523, Governor's Applied Coastal Research and Development Program, Baton Rouge, 55 p.
- Schwab, W.C., Allison, M.A., \*Lotto, L.L., Denny, J.F., Uchupi, E., Thielier, E.R., Foster, D.S., Swift, B.A., Danforth, W.W., Lanier, D.L., and Butman, B. 2002. High-resolution Quaternary Seismic Stratigraphy of the New York Bight Continental Shelf. U.S. Geological Survey Open-File Report 02-152.

Schwab, W.C., Denny, J., Butman, B., Danforth, W.W., Foster, D.S., Swift, B.A., \*Lotto, L.L., Allison, M.A., Thieler, E.R., and Hill, J.C., 2000. Seafloor characterization offshore of the New York-New Jersey Metropolitan Area using sidescan-sonar. 2000. U.S. Geological Survey Open-File Report No. 00-295, 3 sheets.

Thieler, E.R., Schwab, W.C., Allison, M.A., Denny, J.F., and Danforth, W.W., 1998. Sidescan-sonar Imagery of the Shoreface and Inner Continental Shelf, Wrightsville Beach, North Carolina. Reston, Virginia: U.S. Geological Survey Open-File Report No. 98-596, 3 sheets.

***Papers Read (invited and volunteered)***

Allison, M.A., McCorquodale, J.A. and Meselhe, E.A., 2009. Hydrodynamics and sediment transport in lower Mississippi River meander bends (Louisiana): implications for large sediment diversions. AGU Fall Meeting, San Francisco, December.

Goff, J.A., Allison, M.A., and Gulick, S.P.S., 2009. 2009. Offshore transport of sediment during cyclonic storms: Hurricane Ike (2008), Texas Gulf Coast, USA. AGU Fall Meeting, San Francisco, December.

Whitman, S.K., Shaw, J.B., Mohrig, D., Nittrouer, J.A., and Allison, M.A., 2009. Partitioning sand transport between branches of channel bifurcations in deep rivers: implications for river-diversion structures and land building in southern Louisiana. AGU Fall Meeting, San Francisco, December.

Parker, G., Nittrouer, J.A., Mohrig, D.C., Allison, M.A., Dietrich, W.E., and Voller, V.R. 2009. Modeling the morphodynamics of the lower Mississippi River as a quasi-bedrock river. AGU Fall Meeting, San Francisco, December.

Roe, K., Rosenheim, B.E., Kolker, A.S., Butcher, K.A., Allison, M.A., Nittrouer, J.A., Duncan, D.A., Nyman, J., and Adamic, J., 2009. The effect of flood events on the partitioning of labile and refractory carbon in the Missouri-Mississippi River system. AGU Fall Meeting, San Francisco, December.

Nittrouer, J.A., Venditti, J.G., Allison, M.A., Church, M., and Mohrig, D., 2009. Sediment flux and transport conditions in the gravel-sand transition of the Fraser River. AGU Fall Meeting, San Francisco, December.

Venditti, J.G., \*Nittrouer, J.A., Humphries, R.P., and Allison, M.A., 2009. Supply-limited bedforms in a gravel-sand transition. AGU Fall Meeting, San Francisco, December.

Rosenheim, B.E., Domack, E., McNichol, A., Galy, V., Hayes, J.M., Roe, K., Adamic, J., Allison, M.A., 2009. Overview of ramped pyrolysis radiocarbon dating and application to carbon cycling and chronology. Radiocarbon 2009, Kailua Kona, Hawaii, June.

- Allison, M.A. and Demas, C.R., 2009. Overview of sediment processes and data availability for the lower Mississippi River. Diversion Summit for the Mississippi River, New Orleans, LA., February.
- Goff, J.A., Allison, M.A., and Gulick, S.P.S., 2009. Seabed Changes in Bolivar Roads Inlet and offshore Bolivar Peninsula from Hurricane Ike: implications for the barrier system sand budget. State of the Bay Symposium, Galveston, TX, January.
- Allison, M.A., 2008. Controls on sediment/POC flux and burial on the Gulf of Mexico continental margin (with special emphasis on the Mississippi-Atchafalaya system) NSF Ocean Carbon and Biogeochemistry Scoping Workshop on Terrestrial and Coastal Carbon Fluxes and Exchanges in the Gulf of Mexico, St. Petersburg, FL, May.
- Jaramillo S., Sheremet, A., Allison, M.A., and Rogers, E., 2008. Mud-induced wave dissipation in the Atchafalaya Shelf, Louisiana, USA. Physics of Estuaries and Coastal Seas (PECS) Conference, Astoria, Liverpool, U.K., August.
- Allison, M.A., Sheremet, A., Duncan, D.A. III, and Jaramillo, S., 2008. Floc behavior in high turbidity winter storm events on the Atchafalaya delta inner shelf, Louisiana. AGU Ocean Sciences Meeting, Orlando, FL, March.
- Lee, K. M., Ogston, A. S., Nittrouer, C. A., and Allison, M. A., 2008. Effect of abrupt change in sediment supply on small mountainous river deltas: Elwha River, Washington, USA. AGU Ocean Sciences Meeting, Orlando, FL, March.
- Jaramillo, S., Sheremet, A., Allison, M.A., and Rogers, E., 2008. Mud induced wave-dissipation in the Atchafalaya Shelf, Louisiana, USA. AGU Ocean Sciences Meeting, Orlando, FL, March.
- Kolker, A.S. and Allison, M.A., 2008. Bathymetric and sedimentological changes in space and time: towards a subsidence map of an interdistributary basin in the Mississippi delta. AGU Ocean Sciences Meeting, Orlando, FL, March.
- Sampere, T.P., Bianchi, T.S. and Allison, M.A., 2008. Lignin Phenols and Organic Carbon in Sediments preserved on the Louisiana Continental Margin over the last 150 years: linkage to land-use changes. American Chemical Society National Meeting, New Orleans, April.
- Allison, M.A., Nittrouer, J.A., Mohrig, D., Venditti, J.G., and Church, M., 2007. Tidal bedform morphology and flow field characteristics in the Fraser River, British Columbia. AGU Fall Meeting, San Francisco, December.
- Jaramillo, S., Sheremet, A., and Allison, M.A., 2007. Wave dissipation over a muddy inner shelf, Louisiana, USA. 9<sup>th</sup> International Conference on Nearshore and Estuarine Cohesive Sediment Transport Processes, Brest, France, September.

- Allison, M.A., Sheremet, A., Duncan, D.A. and Jaramillo, S., 2006. Evidence for hyperpycnal sediment control on evolution of the Mississippi and Atchafalaya deltaic clinoforms. AGU Annual Meeting, San Francisco, December.
- Jaramillo S., Sheremet, A., and Allison, M.A., 2006. Observations of coupled wave-sediment dynamics on the Atchafalaya shelf, Louisiana, USA. Physics of Estuaries and Coastal Seas (PECS) Conference, Astoria, Oregon, December.
- \*Wilson, C.A. and Allison, M.A., 2006. Sediment dynamics and geomorphology of eroding marsh shorelines in southeastern Louisiana. Geological Society of America Annual Meeting, Philadelphia, PA, October.
- Reed, A.H., Calliari, L.J., Faas, R.W., Allison, M.A., Holland, K.T., Vinzon, S.B., Espirito Santo, R.M., Pereira, P.S. and Guedes, R.M. 2006. Characterization of offshore mud deposit and nearshore sediments at Cassino Beach, Rio Grande du Sul, Brazil. International Symposium on Mud Deposits in Coastal Areas, Porte Allegre, Brazil, November.
- Allison, M.A., 2006. Renewable and non-renewable sediment sources in the lower Mississippi River and their application to coastal restoration in Louisiana. Coastal Restoration and Enhancement through Science and Technology (CREST) Riverine Process and Re-establishment and Re-introduction Workshop, Baton Rouge, April.
- Allison, M.A. and Dellapenna, T.S., 2006. Preservation of Hurricane Katrina event layer stratigraphy on the Mississippi Delta Inner Continental Shelf and adjacent marshes. AGU Ocean Sciences, Honolulu, February.
- Gordon, E.S., Allison, M.A., and Petsch, S.T., 2006. Offshore mobilization and microbial uptake of aged floodplain organic matter in response to Hurricane Katrina. AGU Ocean Sciences, Honolulu, February.
- Dellapenna, T.S., Allison, M.A., Corbett, D.R. and Walsh, J.P., 2006. Evidence of Mississippi River delta lobe alteration caused by Hurricane Katrina, AGU Ocean Sciences, Honolulu, February.
- Corbett, R., Mallinson, D., Walsh, J.P., Goni, M., Allison, M.A., \*Dellapenna, T.S., Dail, M., Marciniak, K., Ryan, K., Smith, C., and Sumners, B., 2006. Evaluating Mississippi delta seafloor response to Hurricanes Katrina and Rita using multibeam sonar and coring technique. AGU Ocean Sciences, Honolulu, February.
- Allison, M.A., \*Nittrouer, J.A., and \*Galler, J.J., 2005. The supply side of Mississippi River delta restoration: can the river provide the sediment we need? AGU Fall Meeting, San Francisco. December.

- Allison, M.A., Demas, C.R., Meselhe, E., McCorquondale, A., and Blaine, C.A., 2005. Toward a 3-D numerical model of sediment dynamics in the Mississippi River in Louisiana: observational advances and needs. Mississippi Modeling Forum, U.S. Army Corps of Engineers Vicksburg District, July.
- Allison, M.A., 2005. The supply side of coastal restoration: what sediment is available in the lower Mississippi River? CREST Symposium: Progress in Understanding Coastal Land Loss and Restoration in Louisiana: The W. Alton Jones Foundation Report Revisited. April.
- Majzlik, E.J., Dellapenna, T.M., and Allison, M.A., 2005. Occurrence of scour pits on the inner continental shelf of Matagorda Peninsula, Texas, following the landfall of Hurricane Claudette, July 15, 2003. *Geological Society of America Southeastern Section*, April.
- Clinton, R., Gisewhite, R., Monacci, R., Gordon, E., Goni, M.A., Allison, M.A., and Kineke, G.C., 2004. The Effect of Hurricane Lili on the Distribution of Organic Matter in the Inner Louisiana Shelf (Gulf of Mexico, USA). *AGU Fall Meeting*, December.
- Majzlik, E., Dellapenna, T.M., and Allison, M.A., 2004. Seabed scouring and rapid recovery of the lower shoreface and inner continental shelf due to Hurricane Claudette (July 2003), Matagorda Peninsula, Texas. *AGU Fall Meeting*, December.
- \*Wilson, C.A. and Allison, M.A., 2004. CREST: Wetland Platform Erosion by Wave Action and its Implications for Future Mitigation Projects in South Louisiana. Environmental State of the State IX Annual Conference, New Orleans, October
- \*Nittrouer, J.R. and Allison, M.A., 2004. Flux, volume, and sedimentological characteristics of the active sand sheet within the lower Mississippi River. Environmental State of the State IX Annual Conference, New Orleans, October.
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