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Background

Education

University of New Orleans, Ph.D., Engineering and Applied Science, Geology, 2007
Dissertation: *Long and Short-Term Morphologic Evolution and Stratigraphic Architecture of a Transgressive Tidal Inlet, Little Pass Timbalier, Louisiana*

The University of Mississippi, M.S., Engineering Science, Geology, 2003
Thesis: *Depositional Systems Tracts and Associated Depositional Environments within the Lower Cretaceous (Albian) Mooringsport Formation, Waveland Field, Hancock County, Mississippi*

The University of Mississippi, B.S., Geology, 1999

Experience

Director of Applied Geosciences, The Water Institute of the Gulf, September 2018 to present

Adjunct Assistant Professor, Department of Earth and Environmental Sciences, University of New Orleans, January 2008 to present

Graduate Faculty Member, College of Marine Sciences, University of Southern Mississippi, August 2017 to present

Graduate Faculty Member, Department of Earth and Environmental Sciences, University of New Orleans, August 2007 to present

Geologist, Marine Minerals Program, Office of Resource Evaluation, Bureau of Ocean Energy Management, U.S. Department of the Interior, June 2018 to September 2018

Marine Minerals Program Coordinator, Marine Minerals Program, Gulf of Mexico Region, Bureau of Ocean Energy Management, U.S. Department of the Interior, October 2015 to June 2018

Environmental Scientist, Marine Minerals Program, Office of Environment, Gulf of Mexico Region, Bureau of Ocean Energy Management, U.S. Department of the Interior, August 2010 to June 2018

Environmental Scientist, Coastal Programs Section, Gulf of Mexico Region, Bureau of Ocean Energy Management, March 2010 to August 2010

Research Associate-Gratis, Coastal Research Laboratory, Pontchartrain Institute for Environmental Sciences, University of New Orleans, March 2010 to December 2011

Research Associate V; Research Geologist, Coastal Research Laboratory, Pontchartrain Institute for Environmental Sciences, University of New Orleans, January 2007 to March 2010

Louisiana Board of Regents Crescent City Doctoral Fellowship Graduate Research Assistant, Coastal Research Laboratory, Department of Geology and Geophysics, University of New Orleans, May 2003 to December 2006

Head Graduate Teaching Assistant, Department of Geology and Geophysics, University of New Orleans, January 2003 to May 2003

Graduate Instructor, Department of Geology and Geological Engineering, The University of Mississippi, June 2002 to July 2002

Graduate Teaching Assistant, Department of Geology and Geological Engineering, The University of Mississippi, August 1999 to June 2002

Certifications and Licenses

Licensed Professional Geoscientist, Louisiana Board of Professional Geoscientists
License Number 268

Scholarly and Creative Productivity

Publications

Refereed/Invited Publications

Journal Articles

Caffey, R.H., Petrolia, D.R., Georgiou, I.Y., **Miner, M.D.**, Wang, H., and Kime, B., 2022, The Economics of Sediment Quality on Barrier Shoreline Restoration: *Journal of Environmental Management*, v. 319, 115730.

Kiskaddon, E., Bienn, H., Hemmerling, S.A., Dalyander, S., Grismore, A., Parfait, J., **Miner, M.D.**, Cameron, C., Hopkins, T.E., Allen, Y., Jones-Farrand, D., Martin, M., Tirpak, B.E., Green, M., Rhinehart, K., and Carruthers, T.J.B., 2022, Supporting Habitat Restoration in the Northern Gulf of Mexico through Synthesis of Data on Multiple and Interacting Benefits and Stressors: *Journal of Environmental Management*, v. 318, 115589

Xu, K., Wang, J., Li, C., Bentley, S.J., and **Miner, M.D.**, 2022, Geomorphic and Hydrodynamic Impacts on Sediment Transport on the Inner Louisiana Shelf: *Geomorphology*, v. 398, 108022.

Gal, N., Wallace, D., **Miner, M.D.**, Hollis, R., Dike, C., and Flocks, J., 2020, The Influence of Antecedent Geology on the Holocene Formation and Evolution of Horn Island, Mississippi, USA: *Marine Geology*.

Maloney, J.M., Bentley, S.J., Xu, K., Obelcz, J., Georgiou, I.Y., Jafari, N.H., and **Miner, M.D.**, 2020, Mass Wasting on the Mississippi River Subaqueous Delta: *Earth-Science Reviews*, v. 200, 103001.

Robichaux, P., Xu, K., Bentley, S., **Miner, M.D.**, and Xue, Z.G., 2020, Morphological Evolution of a Mud-Capped Dredge Pit on Louisiana Shelf: Nonlinear Infilling and Continuing Consolidation: *Geomorphology* v. 354, 107030.

Chaytor, J.D., Baldwin, W.E., Bentley, S.J., Damour, M., Jones, D., Malloney, J., **Miner, M.D.**, Obelcz, J., and Xu, K., 2019, Short- and Long-term Movement of Mudflows of the Mississippi River Delta Front and Their Known and Potential Impacts on Oil and Gas Infrastructure: Geological Society of London, Special Publications, no. 500.

Hollis, R.J., Wallace, D.J., **Miner, M.D.**, Gal, N.S., Dike, C., and Flocks, J.G., 2019, Late Quaternary Evolution and Stratigraphic Framework Influence on Coastal Systems along the North-Central Gulf of Mexico, USA: *Quaternary Science Reviews*, v. 223, 105910.

Obelcz, J., Xu, K., Bentley, S.J., O'Connor, M., and **Miner, M.D.**, 2018, Mud-capped dredge pits: An experiment of opportunity for characterizing cohesive sediment transport and slope stability in the northern Gulf of Mexico: *Estuarine, Coastal and Shelf Science*, v. 208, p. 161-169.

Maloney, J.M., Bentley, S.J., Xu, K., Obelcz, J., Georgiou, I.Y., and **Miner, M.D.**, 2018, Mississippi River subaqueous delta is entering a stage of retrogradation: *Marine Geology*, v. 400, p. 12-23, <https://doi.org/10.1016/j.margeo.2018.03.001>.

Obelcz, J., Xu, K., Georgiou, I.Y., Maloney, J., Bentley, S.J., and **Miner, M.D.**, 2017, Sub-decadal submarine landslides are important drivers of deltaic sediment flux: Insights from the Mississippi Delta Front: *Geology*, v. 45, no. 8, DOI 10.1130/G38688.1.

Keller, G., Bentley, S.J., Georgiou, I.Y., Maloney, J., **Miner, M.D.**, and Xu, K., 2016, River-Plume Sedimentation and $^{210}\text{Pb}/^{7}\text{Be}$ Seabed Delivery on the Mississippi River Delta Front: *Geo-Marine Letters*, DOI 10.1007/s00367-016-0476-0.

Kolker, A.S., **Miner, M.D.**, and Weathers, H.D., 2012, Depositional Dynamics in a River-Diversion Receiving Basin: The Case of the West Bay Mississippi River Diversion: *Estuarine, Coast, and Shelf Science*, v. 106, p. 1-12.

Howes, N.C., FitzGerald, D.M., Hughes, Z.J., Georgiou, I.Y., Kulp, M.A., **Miner, M.D.**, Smith, J.M., and Barras, J.A., 2010, Hurricane-induced failure of low salinity wetlands: *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, v. 107, p. 14014-14019.

Miner, M.D., Kulp, M.A., FitzGerald, D.M., and Georgiou, I.Y., 2009, Hurricane-associated ebb-tidal delta sediment dynamics: *Geology*, v. 37, no. 9, p. 851-854.

Miner, M.D., Kulp, M.A., FitzGerald, D.M., Flocks, J.G., and Weathers, H.D., 2009, Delta lobe degradation and hurricane impacts governing large scale coastal behavior, south-central Louisiana, USA: *Geo-Marine Letters*, v. 29, no. 5-6, p. 441-454.

Flocks, J.G., **Miner, M.D.**, Twichell, D.T., Lavoie, D., and Kindinger, J., 2009, Preservation and sand-resource potential of fluvio-deltaic deposits on the Louisiana inner shelf: *Geo-Marine Letters*, v. 29, no. 5-6, p. 359-378.

Fearnley, S., **Miner, M.D.**, Kulp, M.A., Bohling, C., and Penland, S., 2009, Hurricane impact and recovery shoreline change analysis of the Chandeleur Islands, Louisiana, USA: 1855 to 2005: *Geo-Marine Letters*, v. 29, no. 5-6, p. 455-466.

Rogers, B., Kulp, M.A., and **Miner, M.D.**, 2009, Late Holocene shelf sand body development from reworked relict distributary channel deposits exposed on the shelf, St. Bernard Shoals, Northern Gulf of Mexico, USA: *Geo-Marine Letters*, v. 29, no. 5-6, p. 379-394.

Miner, M.D., Kulp, M.A., and FitzGerald, D.M., 2007, Tidal versus shoreface ravinement and tidal inlet fill preservation potential for transgressive tidal inlets Mississippi River Delta Plain, USA: *Journal of Coastal Research*, Special Issue 50, p. 805-809.

Kulp, M.A., **Miner, M.D.**, and FitzGerald, D.M., 2007, Subsurface controls on transgressive tidal inlet retreat pathways, Mississippi River Delta Plain, USA: *Journal of Coastal Research*, Special Issue 50, p. 816-820.

Kulp, M.A., FitzGerald, D., Penland, S., Motti, J., Brown, M., Flocks, J., **Miner, M.D.**, McCarty, P., and Mobley, C., 2006, Stratigraphic Architecture of a Transgressive Tidal Inlet-Flood Tidal Delta System: Raccoon Pass, Louisiana: *Journal of Coastal Research*, Special Issue 39, p. 1731-1736.

Miner, M.D., FitzGerald, D.M., and Kulp, M.A., 2005, Morphologic Evolution of a Transgressive Tidal Inlet System, Little Pass Timbalier, Louisiana: *Gulf Coast Association of Geological Societies Transactions*, v. 55, p. 532-542.

Ferina, N.F., Flocks, J.G., Kindinger, J.L., **Miner, M.D.**, Motti, J.P., Chadwick, P.C., and Johnston, J. B., 2005, Preliminary Assessment of Recent Deposition Related

to a Crevasse Splay on the Mississippi River Delta: Implications for Coastal Restoration: *Gulf Coast Association of Geological Societies Transactions*, v. 55, p. 185–194.

Refereed Book Chapters

FitzGerald, D.M. and **Miner, M.D.**, 2021, Tidal Inlets and Lagoons Along Siliciclastic Barrier Coasts, *in*, Reference Module in Earth Systems and Environmental Sciences, Elsevier, <https://doi.org/10.1016/B978-0-12-818234-5.00079-1>.

FitzGerald, D.M., Georgiou, I. Hein. C., Hughes, Z., Kulp, M., and **Miner, M.D.**, 2018, Runaway Barrier Island Transgression Concept: Global Case Studies, *in* Moore, L. and Murray, A.B. (eds.), *Barrier Dynamics and Responses to Changing Climate*, p. 3–56, Springer International Publishing, Inc., Cham, Switzerland.

FitzGerald, D., Georgiou, I. and **Miner, M.**, 2014, Estuaries and Tidal Inlets, *in* Masselink, G. and Gehrels, R. (eds.), *Coastal Environments and Global Change*, 1st Edition, p. 268-298, John Wiley and Sons, Ltd., Hoboken, N.J.

FitzGerald, D.M. and **Miner, M.D.**, 2013, Tidal Inlets and Lagoons along Siliciclastic Barrier Coasts, *in* Shroder, J.F. (ed.), *Treatise on Geomorphology*, v. 10, pp. 149-165, Academic Press, San Diego, CA.

Georgiou, I.Y., Kulp, M.A., **Miner, M.D.**, and FitzGerald, D.M., 2010, Louisiana, Chapter 1.6, *in* Bird, E. (ed.), *Encyclopedia of the world's coastal landforms*: Springer, New York.

Refereed Proceedings

Sullivan, J.D. and **Miner, M.D.**, 2019, Identification of Sand Resources Using Sub-bottom Profiling Geophysical Survey Techniques Offshore Louisiana, Gulf of Mexico, USA: Society of Exploration Geophysicists 2019 International Exposition and 89th Annual Meeting Technical Program, September 15-20, 2019, San Antonio, Texas.

Beasley, B.S., Georgiou, I.Y., **Miner, M.D.**, and Byrnes, M.R., 2019, Coupled Barrier System Shoreline and Shoreface Dynamics, Louisiana, USA: Coastal Sediments '19, Proceedings of the 9th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 27-31, 2019, St. Petersburg, Florida.

Georgiou, I.Y., Kime, B.L., and **Miner, M.D.**, 2019, The Effect of Sediment Properties on Restored Barrier Island Morphodynamics: Implications for Using Nearshore vs Offshore Sediments: Coastal Sediments '19, Proceedings of the 9th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 27-31, 2019, St. Petersburg, Florida.

Heinrich, P., **Miner, M.**, Paulsell, R., and McCulloh, R., 2015, Late Quaternary Stratigraphic Evolution of the Southwestern Louisiana Continental Shelf: Paleo-

Landscape Preservation Potential and Implications Offshore Sand Resources: Gulf Coast Association of Geological Societies and Gulf Coast Section of SEPM 65th Annual Convention, September 20-22, 2015, Houston, Texas.

Miner, M.D., Georgiou, I.Y., Kulp, M.A., and FitzGerald, D.M., 2015, Mississippi River Delta Plain Barrier Island Sediment Dynamics and Implications for Managing Coastal Transgression: Coastal Sediments '15, Proceedings of the 8th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 11-15, 2015, San Diego, California.

Kindinger, J., Buster, N.A., Flocks, J., Bernier, J.C., Kulp, M.A., and **Miner, M.D.**, 2015, Impacts of Relative Sea-Level Rise and Extreme Storms on Coastal Geomorphic Change and Barrier Island Evolution and Louisiana: Coastal Sediments '15, Proceedings of the 8th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 11-15, 2015, San Diego, California.

Ellison, M.S., **Miner, M.D.**, and Kulp, M.A., 2011, Mainland marsh shoreline response to barrier island transgressive submergence: Chandeleur Sound, Louisiana, USA: Coastal Sediments '11, Proceedings of the 7th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 2-6, 2011, Miami, Florida.

Twichell, D., Pendleton, E., Baldwin, W., Flocks, J., **Miner, M.**, and Kulp, M., 2011, Geologic controls on sediment distribution and transport pathways around the Chandeleur Islands, LA, USA: Coastal Sediments '11, Proceedings of the 7th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 2-6, 2011, Miami, Florida.

Grzegorzewski, A.S., Johnson, B., **Miner, M.**, Wamsley, T., and Cialone, M., 2011, The role of pre-Camille and post-Katrina Ship Island on storm waves for coastal Mississippi: Coastal Sediments '11, Proceedings of the 7th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 2-6, 2011, Miami, Florida.

Miner, M.D., Kulp, M.A., Georgiou, I., FitzGerald, D., Flocks, J., Twichell, D., and Sallenger, A., 2008, The role of hurricanes in the long-term evolution of the Chandeleur Islands: Implications for barrier management: Proceedings of the 9th Biennial Basics of the Basin Research Symposium, November 5-7, 2008, New Orleans, LA, p. 75.

Miner, M. D., FitzGerald, D.M., and Kulp, M.A., 2007, 1880 to 2005 Morphologic evolution of a transgressive tidal inlet, Little Pass Timbalier, Louisiana: Coastal Sediments '07, Proceedings of the 6th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 13-17, 2007, New Orleans, Louisiana, p. 1165-1178.

FitzGerald, D.M., Kulp, M.A., Huges, Z., Georgiou, I., **Miner, M. D.**, Penland, S., and Howes, N., 2007, Impacts of rising sea level to backbarrier wetlands, tidal inlets, and barrier islands: Barataria Coast, Louisiana: Coastal Sediments '07, Proceedings of the 6th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, May 13-17, 2007, New Orleans, Louisiana, p. 1179-1192.

Other Publications

Abstracts

Miner, M.D., Di Leonardo, D., Forrest, B., and Volmer, H., 2021, Northern Gulf Sediment Availability and Allocation Program (NGSAAP): Developing a Decision Support Tool for Coastal Restoration Project Planning: ASBPA National Coastal Conference, September 28-October 1, 2021, New Orleans, LA.

Di Leonardo, D., Dalyander, S., **Miner, M.D.**, Georgiou, I., Dudeck, N., and Carmeron, C., 2021, Using XBeach to Evaluate Dune Versus Marsh Restoration End Member Fill Templates for Enhanced Barrier Island Resiliency: Chandeleur Islands, Gulf of Mexico: ASBPA National Coastal Conference, September 28-October 1, 2021, New Orleans, LA.

Suthard, B., Bryce, P., Brooks, K., and **Miner, M.D.**, 2021, Texas General Land Office Region 1 Reconnaissance Geophysical Sand Search: ASBPA National Coastal Conference, September 28-October 1, 2021, New Orleans, LA.

Di Leonardo, D., Baustian, M., Bregman, M., Cobell, Z., Courtois, A., Dalyander, S., DeMyers, C., Esposito, C., Georgiou, I., Hemmerling, S., Jung, H., McMann, B., Messina, F., **Miner, M.D.**, and Yuill, B., 2020, Coastal Evolution Management for a Resilient Working Coast: Incorporating Local Knowledge into Numerical Modeling in Port Fourchon, Louisiana, USA: Geological Society of America, Abstracts with Programs, v. 52, no. 6, doi: 10.1130/abs/2020AM-358852.

Caffey, R.H., Petrolia, D., Georgiou, I., **Miner, M.D.**, Wang, H., and Kime, B., 2020, Economic and Geomorphic Comparison of Nearshore and Offshore Sands for Barrier Island Restoration in Louisiana: International Conference on Coastal Engineering, ICEE 2020 Program with Abstracts, September 13-18, 2020, Sydney, Australia.

Li, C., Huang, W., Milan, B., **Miner, M.D.**, Sheremet, A., Georgiou, I.Y., Xu, K., Maiti, K., Wang, J., and Li, M., 2020, Impact of Hurricane Barry (2019) on the inner shelf circulation and exchange flow of Barataria Bay: American Geophysical Union, Ocean Sciences Meeting, San Diego, CA., abstract no. CP34C-1261.

Di Leonardo, D.R., **Miner, M.D.**, McHugh, C., Carruthers, T., Clark, R., Cobell, Z., Dalyander, S., DeMyers, C., Hemmerling, S., and Yuill, B., 2019, The Role of Geosciences in Coastal Community Resilience Strategies: A Case Study at Port Fourchon in the Mississippi River Delta Plain, USA: Geological Society of

America, Abstracts with Programs, v. 51, no. 5, paper no. 226-5, doi: 10.1130/abs/2019AM-338836.

Beasley, B., Georgiou, I.Y., and **Miner, M.**, 2018, Shoreface sediment budget influence on barrier island evolution, Louisiana, USA: Louisiana State of the Coast Conference, May 30-June 1, 2018, New Orleans, Louisiana, Book of Abstracts, p. 20.

Caffey, R., Petrolia, D., Wang, H., Georgiou, I., and **Miner, M.**, 2018, Economic and geomorphic comparison of OCS sand vs nearshore sand for coastal restoration projects: Louisiana State of the Coast Conference, May 30-June 1, 2018, New Orleans, Louisiana, Book of Abstracts, p. 41.

Kime, B., Georgiou, I., and **Miner, M.**, 2018, Geomorphic evaluation of barrier island sediment restorations: Louisiana State of the Coast Conference, May 30-June 1, 2018, New Orleans, Louisiana, Book of Abstracts, p. 161.

Miner, M.D., Duplantis, B., and Mallindine, J., 2018, The Gulfwide sand inventory: Identifying significant offshore sediment resources to inform oil and gas pipeline decommissioning decisions and long-term restoration planning: Louisiana State of the Coast Conference, May 30-June 1, 2018, New Orleans, Louisiana, Book of Abstracts, p. 211.

Xu, K., Bentley, S.J., Li, C., **Miner, M.D.**, and Wilson, C., Sediment transport and infilling processes of dredge pits on Louisiana shelf: Louisiana State of the Coast Conference, May 30-June 1, 2018, New Orleans, Louisiana, Book of Abstracts, p. 338.

Hollis, R.J., Wallace, D.J., and **Miner, M.D.**, 2017, Constraining Holocene Evolution of Shelf Bayhead Delta Deposits Offshore Mississippi, USA: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.
<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/221371>

Chaytor, J.D., Baldwin, W.E., Danforth, W.W., Bentley, S.J., **Miner, M.D.**, and Damour, M., 2017, New High-Resolution Multibeam Mapping and Seismic Reflection Imaging of Mudflows on the Mississippi River Delta Front: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.
<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/257755>

Smith, J.E., Bentley, S.J., Courtois, A.J., Obelcz, J., Chaytor, J.D., Maloney, J.M., Georgiou, I.Y., Xu, K., and **Miner, M.D.**, 2017, Facies-dependent variations in sediment physical properties on the Mississippi River Delta Front, USA: evidence for depositional and post-depositional processes: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.
<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/241016>

Chaichitehrani, N., Li, C., Xu, K., Bentley, S.J., and **Miner, M.D.**, 2017, Sediment Transport over a Dredge Pit, Sandy Point Southeast, west flank of the Mississippi

River during Summer Upcoast Currents: a Coupled Wave, Current and Sediment Numerical Model: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/294525>

Beasley, B., Georgiou, I.Y., and **Miner, M.D.**, 2017, Transgressive Shoreface Response in the Mississippi River Delta Shoreface Sediment Budget Influence on Barrier Island Evolution, Louisiana, USA: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/294161>

Courtois, A.J., Bentley, S.J., Xu, K., Georgiou, I.Y., Maloney, J.M., **Miner, M.D.**, Chaytor, J.D., and Smith, J., 2017, A Regional Survey of River-plume Sedimentation on the Mississippi River Delta Front: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/240035>

Schulze, N., Wallace, D.J., and **Miner, M.D.**, 2017, Holocene Evolution and Sediment Provenance of Horn Island, Mississippi, USA: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/221004>

Obelcz, J., Xu, K., Bentley, S.J., Wood, W., Georgiou, I.Y., Maloney, J.M., and **Miner, M.D.**, 2017, Sneaky Submarine Landslides, and how to Quantify them: A Case Study from the Mississippi River Delta Front Contrasting Geophysical and Machine Learning Techniques: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/242282>

Robichaux, P.A., Xu, K., Bentley, S.J., Li, C., and **Miner, M.D.**, 2017, Morphological Response of a Mud Capped Dredge Pit in Western Louisiana After Sand Excavation for Barrier Island Restoration: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/244493>

Liu, H., Xu, K., Bentley, S.J., Li, C., **Miner, M.D.**, Wilson, C., and Xue, Z., 2017, Sediment Transport and Slope Stability of Ship Shoal Borrow Areas for Coastal Restoration of Louisiana: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/236691>

Xue, Z., Wilson, C., Bentley, S.J., Xu, K., Liu, H., Li, C., and **Miner, M.D.**, 2017, Quantifying Sediment Characteristics and Infilling Rate within a Ship Shoal Dredge Borrow Area, Offshore Louisiana: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/282295>

Xu, K., Bentley, S.J., Li, C., **Miner, M.D.**, Obelcz, J., O'Connor, M., Robichaux, P.A., and Wang, J., 2017, Sediment Transport and Infilling Processes of Mud-Capped Dredge Pits on Louisiana Shelf: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/265388>

Dike, C., Wallace, D.J., and Miner, M.D., 2017, Evolution of Holocene fluvio-deltaic systems along the Mississippi-Alabama Shelf, USA: 2017 AGU Fall Meeting, December 11-15, 2007, New Orleans, Louisiana.

<https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/240628>

Obelcz, J., Xu, K., Bentley, S.J., Georgiou, I.Y., Maloney, J., and **Miner, M.D.**, 2016, Subaqueous Mudslides on the Mississippi River Delta Front: Is Seafloor Movement Driven Exclusively by Katrina-Scale Hurricanes?: Geological Society of America, 2016 South-Central Section – 50th Annual Meeting, March 21-22, 2016. Baton Rouge, Louisiana.

Xu, K., **Miner, M.D.**, Bentley, S.J., Li, C., Obelcz, J., and O'Connor, M., 2016, Assessment of Mud-Capped Dredge Pit Evolution Offshore Louisiana: Implications to Sand Excavation and Coastal Restoration: Geological Society of America, 2016 South-Central Section – 50th Annual Meeting, March 21-22, 2016. Baton Rouge, Louisiana.

Maloney, J., Bentley, S.J., Xu, K., Georgiou, I., and **Miner, M.D.**, 2016, Impacts of Declining Mississippi River Sediment Load on Subaqueous Delta Front Sedimentation and Geomorphology: 2016 AGU/ASLO/TOC Ocean Sciences Meeting, February 21-26, 2016, New Orleans, Louisiana.

<https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/90701>

Xu, K., **Miner, M.D.**, Bentley, S.J., Li, C., Obelcz, J., and O'Connor, M., 2016, Assessment of Mud-Capped Dredge Pit Evolution Offshore Louisiana: Implications to Sand Excavation and Coastal Restoration: 2016 AGU/ASLO/TOC Ocean Sciences Meeting, February 21-26, 2016, New Orleans, Louisiana.

<https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/91793>

Obelcz, J., Xu, K., Bentley, S., Li, C., **Miner, M.D.**, and O'Connor, M., 2016, Evolution of Mud-Capped Dredge Pits Following Excavation: Sediment Trapping and Slope Instability: 2016 AGU/ASLO/TOC Ocean Sciences Meeting, February 21-26, 2016, New Orleans, Louisiana.

<https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/90550>

Keller, G., Bentley, S., Xu, K., Georgiou, I., **Miner, M.D.**, Obelcz, J. and Maloney, J., 2016, Geochronology of Mudflow Deposits on the Mississippi River Delta Front, Louisiana, USA: 2016 AGU/ASLO/TOC Ocean Sciences Meeting, February 21-26, 2016, New Orleans, Louisiana.

<https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/91536>

Georgiou, I, Bentley, S.J., Xu, K., Maloney, J., **Miner, M.D.**, Keller, G., and Obelcz, J., 2016, Mississippi River Delta front loading mechanisms using non-linear wave modeling: 2016 AGU/ASLO/TOC Ocean Sciences Meeting, February 21-26, 2016, New Orleans, Louisiana.

<https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/93803>

O'Connor, M., Bentley, S.J., Xu, K., Obelcz, J., Li, C., and **Miner, M.D.**, 2016, Sediment infilling of Louisiana continental-shelf dredge pits: a record of sedimentary processes in the Northern Gulf of Mexico: 2016 AGU/ASLO/TOC Ocean Sciences Meeting, February 21-26, 2016, New Orleans, Louisiana.

<https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/91817>

Xu, K., **Miner, M.D.**, Bentley, S.J., Li, C., Chaichiterhrani, N., Obelcz, J., and Wang, J., 2015, Assessment of Mud-Capped Dredge Pit Evolution Offshore Louisiana: American Shore and Beach Preservation Association 2015 National Coastal Conference, October 13-16, 2015, New Orleans, Louisiana.

<http://www.asbpa.org/conferences/2015abstracts/XuK.docx>

Chaichitehrani, N., Li, C., Xu, K., Bentley, S.J., and **Miner, M.D.**, 2015, Numerical Simulation of Tidal and Wind-Driven Currents in the Louisiana Bight and Its Interaction with Bathymetric Evolution of a Mud-Capped Dredge Pit: American Shore and Beach Preservation Association 2015 National Coastal Conference, October 13-16, 2015, New Orleans, Louisiana.

Heinrich, P.V, McCulloh, R.P, **Miner, M.D.**, Paulsell, R., and Milner, R., 2015, Mapping of Late Quaternary Paleovalleys on the Outer Continental Shelf Offshore Louisiana: 31st Annual Louisiana Remote Sensing and GIS Workshop, May 12-13, 2015, Baton Rouge, Louisiana,

http://lagic.lsu.edu/rsgis/2015/downloads/rsgis_abstracts_2015.pdf.

Maloney, J., Bentley, S.J., Obelcz, J., Xu, K., **Miner, M.D.**, Georgiou, I.Y., Hanegan, K., and Keller, G., 2014, Assessing Subaqueous Mudflow Hazard on the Mississippi River Delta Front, Part 1: A Historical Perspective on Mississippi River Delta Front Sedimentation: EOS Transactions of the American Geophysical Union, Fall Meeting Supplement, Abstract no. OS33B-1061.

Obelcz, J., Xu, K., Bentley, S.J., Georgiou, I.Y., Maloney, J., **Miner, M.D.**, Hanegan, K., and Keller, G., 2014, Assessing Subaqueous Mudflow Hazard on the Mississippi River Delta Front, Part 1: A Historical Perspective on Mississippi River Delta Front Sedimentation: EOS Transactions of the American Geophysical Union, Fall Meeting Supplement, Abstract no. OS33B-1062.

Kolker, A.S, Esposito, C.R., Georgiou, I., **Miner, M.D.**, and Weathers, D., 2012, Sediment Dynamics and Hydrodynamics in Developing Crevasse Splays in the Lowermost Mississippi River: Implications for Delta Restoration, Geological Society of America, Abstracts with Programs, v. 44, no. 7, p. 183.

Kolker, A.S, **Miner, M.D.**, and Weathers, D., 2011, Sediment Dynamics at the West Bay Mississippi River Diversion, Geological Society of America, Abstracts with Programs, v. 43, no. 3, p. 46.

Hughes, Z.J., Howes, N.C., FitzGerald, D.M., Georgiou, I.Y., Kulp, M.A., **Miner, M.D.**, Smith, J.M., and Barras, J.A., 2010. Wetland loss during hurricanes: failure of low salinity marshes in Breton Sound. Louisiana State of the Coast Conference, Baton Rouge, LA. Abs. with Programs.

Ellison, M.S., **Miner, M.D.**, and Kulp, M.A., 2010, Mainland Marsh Shoreline Response to Barrier Island Transgressive Submergence: Chandeleur Sound, Louisiana, USA: Geological Society of America, Abstracts with Programs, v. 42, no. 5, p. 542.

Miner, M.D., Georgiou, I.Y., FitzGerald, D.M., Kulp, M.A., Flocks, J.G., and Twichell, D.C., 2010, The Chandeleur Islands as an Analog for Understanding Barrier Response to Sea-Level Rise and Increased Storminess: Geological Society of America, Abstracts with Programs, v. 42, no. 1.

Miner, M.D., Kulp, M.A., and FitzGerald, D.M., 2010, Stratigraphic Architecture of Transgressive Tidal Inlet Fill: American Association of Petroleum Geologists Annual Convention, April 12-15, 2010, New Orleans, Louisiana.

Kulp, M.A., FitzGerald, D., **Miner, M.D.**, and Georgiou, I., 2010, Geoscience-Based Management of the Transgressive Mississippi River Delta: Considerations for the Next Century: American Association of Petroleum Geologists Annual Convention, April 12-15, 2010, New Orleans, Louisiana.

Ellison, M.S., **Miner, M.D.**, and Kulp, M.A., 2010, Mainland Marsh Shoreline Response to Barrier Island Transgressive Submergence: Preliminary Results from Chandeleur Sound, USA: American Association of Petroleum Geologists Annual Convention, April 12-15, 2010, New Orleans, Louisiana.

Miner, M.D., Georgiou, I.Y., Kulp, M.A., FitzGerald, D.M., Twichell, D., Flocks, J., and Lavoie, D., 2009, Geomorphic-Based Barrier Island Transgression Management, Chandeleur Islands, Louisiana: Geological Society of America, Abstracts with Programs, v. 41, no. 7, p. 583.

Flocks, J.G., Twichell, D., Pendleton, E., Baldwin, W. and **Miner, M.**, 2009, The Geologic Framework of the Chandeleur Islands, Louisiana, Insight Into the History and Fate of a Fragile Ecosystem: Geological Society of America, Abstracts with Programs, v. 41, no. 1, p. 8.

Flocks, J.G., Lavoie, D.L., Twichell, D.C., and **Miner, M.D.**, 2008, Assessing the stability of our barrier islands, northern Gulf of Mexico, *in* Lavoie, D.L et al. (eds.), USGS Gulf Coast Science Conference and Florida Integrated Science Center meeting; proceedings with abstracts, U.S.Geological Survey, Open File Report OF 2008-1329, p. 49.

Howes, N., FitzGerald, D.M., Georgiou, I., Hughes, Z.J., **Miner, M.**, and Kulp, M., 2008, Tidal Hydraulics and Morphological Response to Wetland Loss in Barataria Bay, Louisiana: EOS Transactions of the American Geophysical Union, v. 89, no. 53, Fall Meeting Supplement, Abstract no. OS33D-05.

Miner, M.D., Kulp, M.A., Georgiou, I., FitzGerald, D., Flocks, J., Twichell, D., and Sallenger, A., 2008, The Role of Hurricanes in the Long-Term Evolution of the Chandeleur Islands: Implications for Barrier Management: Proceedings of the 9th Biennial Basics of the Basin Research Symposium, November 5-7, 2008, New Orleans, LA, p. 75.

Miner, M.D., Kulp, M.A., Flocks, J.G., Twichell, D., FitzGerald, D., and Lee, D., 2008, Regional Coastal Evolution along the Mississippi River Delta Plain: Geological Society of America, Abstracts with Programs, v. 40

Kulp, M.A., FitzGerald, D.M., **Miner, M.D.**, and Georgiou, I.Y., 2008, Geologic Considerations for the Management of the Transgressive Mississippi River Delta Plain: Geological Society of America, Abstracts with Programs, v. 40.

Twichell, D., Flocks, J.G., **Miner, M.D.**, Baldwin, W., Pendleton, E.A., Kulp, M., and Georgiou, I., 2008, Assessing the Importance of Shoreward vs. Alongshore Sand Transport during the Late Holocene Evolution of the Chandeleur Islands, LA: Geological Society of America, Abstracts with Programs, v. 40

Georgiou, I., Kulp, M.A., **Miner, M.D.**, Flocks, J.G., and Twichell, D.C., 2008, Preliminary Assessment of Transport Trends in a Transgressive Barrier Island Chain Using Multidimensional Numerical Models: Geological Society of America, Abstracts with Programs, v. 40.

Miner, M.D., Kulp, M.A., Georgiou, I., Flocks, J.G., Twichell, D., Sallenger, A., and FitzGerald, D.M., 2008, The Role of Hurricanes in Long-Term Morphologic Evolution of the Chandeleur Islands, Louisiana: Association of Environmental and Engineering Geologists, Programs with Abstracts, v. 51, p. 76.

Miner, M.D., Kulp, M.A., Flocks, J.G., and FitzGerald, D.M., 2008, Regional Coastal Evolution in Response to Rapid Relative Sea-level Rise and Wetland Loss, South-Central Louisiana: Association of Environmental and Engineering Geologists, Programs with Abstracts, v. 51, p. 76.

Flocks, J., Twichell, D., Baldwin, W., Pendleton, E., **Miner, M.**, and Kulp, M.A., 2008, Shallow Stratigraphic Framework and Evolution of the Northern Chandeleur Islands, Louisiana: Association of Environmental and Engineering Geologists, Programs with Abstracts, v. 51, p. 63.

Howes, N., FitzGerald, D., Georgiou, I., Hughes, Z., Kulp, M., and **Miner, M.D.**, 2008, Hydrodynamics in Barataria Bay, Louisiana: Association of Environmental and Engineering Geologists, Programs with Abstracts, v. 51, p. 70.

Miner, M.D., Kulp, M.A., Georgiou, I.Y., Sallenger, A., FitzGerald, D.M., Flocks, J. and Twichell, D., 2008, Sediment Transport Trends along the Chandeleur Islands, Louisiana: Implications for Island Sustainability and Barrier Island Management: 2008 AGU, ASLO, OS, and ERF Joint Oceans Sciences Meeting, Orlando, Florida, March 2-7, 2008.

Twichell, D.C., Baldwin, W.E., Flocks, J.G., Pendleton, E.A., **Miner, M.D.**, and Kulp, M.A., 2008, Subsurface Control on Sea-floor Erosional Processes Offshore of the Chandeleur Islands, LA: 2008 AGU, ASLO, OS, and ERF Joint Oceans Sciences Meeting, Orlando, Florida, March 2-7, 2008.

Flocks, J., Twichell, D., Baldwin, W., **Miner, M.**, and Kulp, M., 2008, Influence of Antecedent Geology on Barrier Island Development, Northern Chandeleur Islands, Louisiana: 2008 AGU, ASLO, OS, and ERF Joint Oceans Sciences Meeting, Orlando, Florida, March 2-7, 2008.

Miner, M.D., Kulp, M.A., and Penland, S., 2007, Transgressive Submergence of Barrier Islands: The Role of Multiple Hurricane Impacts on the Southern Chandeleur Islands, Louisiana: Geological Society of America, Abstracts with Programs, v. 39, no. 6.

Kulp, M.A., FitzGerald, D.M., **Miner, M.D.**, Georgiou, I., and Penland, S., 2007, The Demise of the Chandeleur Islands In Southeastern Louisiana: Not Yet!: Geological Society of America, Abstracts with Programs, v. 39, no. 6.

Kulp, M.A., **Miner, M.D.**, Martinez, L., and Penland, S., 2007, A lesson in rapid geomorphic change: The impact of the 2005 hurricane season on Louisiana barrier island systems, Program and Abstracts 2007 Annual Meeting of the Association of American Geographers, San Francisco, California.

Miner, M.D., Kulp, M.A., and FitzGerald, D., 2006, Rapid morphologic changes to a transgressive tidal inlet due to the active 2005 hurricane season, Little Pass Timbalier, Louisiana: Gulf Coast Association of Geological Societies Transactions, v. 56, p. 603.

Miner, M. D., Kulp, M.A., and FitzGerald, D. M., 2005, Morphologic and Stratigraphic evolution of a transgressive tidal inlet, Little Pass Timbalier, Louisiana: New Orleans Geological Society NOGS Log, v. 45, no. 11, p. 8.

FitzGerald, D. M., Georgiou, I., Hughes, Z., Kulp, M., **Miner, M. D.**, and Penland, S., 2005, Backbarrier and Sea Level Controls on Tidal Prism and their Subsequent Impacts on adjacent Barrier Islands: Gulf Coast Association of Geological Societies Transactions, v. 55, p. 223.

Field Guides

Kulp, M.A., **Miner, M.D.**, FitzGerald, D.M., and Penland, S., 2007, Geology of the Louisiana Coastal Zone: Implications for Coastal Management and Restoration:

University of New Orleans, Pontchartrain Institute for Environmental Sciences,
Field Guide 07-001, 45 p.

Technical Reports

Miner, M.D., Dalyander, P.S., Di Leonardo, D., Windhoffer, E., Georgiou, I., Dudeck, N., Carruthers, T., and Kiskaddon, E., 2021, Advancement of the Southeast Conservation Adaptation Strategy (SECAS) for Project Scale Planning: Chandeleur Islands (Breton National Wildlife Refuge) Restoration: The Water Institute of the Gulf, prepared for and funded by the U.S. Fish and Wildlife Service, 104 p.

Dalyander, P.S., **Miner, M.D.**, Khalil, S.M., Lee, D.M., LeBlanc, J.W., Newman, A., Cameron, S.C., and Di Leonardo, D.R., (2021). Barrier Island System Management (BISM): A Holistic System-Approach to Adaptively Manage Louisiana's Barrier Islands and Headlands. The Water Institute of the Gulf. Prepared for and funded by the Coastal Protection and Restoration Authority. Baton Rouge, LA under Task Order 73.

Caffey, R., Petrolia, D., Georgiou, I.Y., **Miner, M.**, Wang, H., and Kime, B., 2020, Economic and Geomorphic Comparison of Outer Continental Shelf Sand and Nearshore Sand for Coastal Restoration Projects: U.S. Department of the Interior, Bureau of Ocean Energy Management, New Orleans, LA, Report no. BOEM 2020-035, Agreement No. M15AC000013, 56 p.

Heinrich, P.V., **Miner, M.**, Pausell, R., and McCulloh, R.P., 2020, Response of Late Quaternary Valley Systems to Holocene Sea Level Rise on the Continental Shelf Offshore Louisiana: Preservation of Potential Paleolandscapes: U.S. Department of the Interior, Bureau of Ocean Energy Management, New Orleans, LA, Report no. BOEM 2020-004, Agreement No. M12AC000020, 104 p.

Dalyander, S., Foster-Martinez, M., Di Leonardo, D., Georgiou, I. Y., **Miner, M.D.**, and Fitzpatrick, C. E., 2020, 2023 Louisiana Coastal Master Plan Barrier Island Tidal Inlet (BITI) Module and Barrier Island Digital Elevation Model (ICM-BI) Updates: Version I, Baton Rouge, Louisiana: Coastal Protection and Restoration Authority, 70 p.

Georgiou, I., Foster-Martinez, M., Fitzpatrick, C., Jarrell, E., Bridgeman, J., Lee, D., **Miner, M.**, Dalyander, S., and Dong, Z., 2020, 2023 Coastal Master Plan: Barrier Island Model Improvements: Version I, Baton Rouge, Louisiana: Coastal Protection and Restoration Authority, 42 p.

Dalyander, P.S., **Miner, M.D.**, Dausman, A., Cameron, C., Dudeck, N., and Georgiou, I., 2020, Numerical Modeling of the Louisiana, Mississippi, and Alabama Coastal System (LMACS): Water Institute of the Gulf Technical Memo submitted to NOAA Restoration Center, 14 p.,
<https://thewaterinstitute.org/assets/docs/reports/Numerical-Modeling-of-the-Louisiana-Mississippi-and-Alabama-Coastal-System-LMACS.pdf>

Ramatchandirane C., Courtois, A., Di Leonardo D.R., Eckland, A.C., Georgiou, I., **Miner, M.**, and Yocum, T., 2019, Investigation of flow and water constituent fluxes through the tidal inlets of the Barataria Basin: The Water Institute of the Gulf, prepared for and funded by the Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA.

Miner, M.D., Weathers, D., Kulp, M.A., and Rafferty, R., 2012, Louisiana Barrier Island Comprehensive Monitoring Program (BICM), Volume 3: Bathymetry and Historical Seafloor Change 1869-2007, Part 4: Historical Seafloor Change Analysis: University of New Orleans - Pontchartrain Institute for Environmental Sciences, Submitted to Louisiana Department of Natural Resources and Coastal Protection and Restoration Authority of Louisiana, 44 p.

Georgiou, I., Weathers, H.D., Kulp, M.A., **Miner, M.**, and Reed, D.J., 2011, Interpretation of Regional Sediment Transport Pathways Using Subsurface Geologic Data, Final Report submitted to U.S. Army Corps of Engineers, Cooperative Ecosystems Studies Unit Contract W912HX-09-2-0027, 18 p.

Thomson, G., **Miner, M.**, Wycklendt, A., and Rees, M., 2010, MRGO Ecosystem Restoration Feasibility Study – Chandeleur and Breton Islands: Boca Raton, Florida: Coastal Planning & Engineering, Inc. and University of New Orleans-Pontchartrain Institute for Environmental Sciences, 100p. (Report prepared for US Army Corps of Engineers under contract to URS).

Miner, M.D., Weathers, D., Rafferty, R., Fischer, D., Ranson, A., McCarty, P. and Brown, M., 2010, Bathymetry and 1871 to 2009 Seafloor Change for Southeastern Lake Pontchartrain, Louisiana: Pontchartrain Institute for Environmental Sciences, University of New Orleans, New Orleans, Louisiana, 14 p. with 6 digital appendices.

Weathers, D., **Miner, M.**, Rafferty, R., and Ranson, A., 2009, Bathymetric Survey and Seafloor Mapping of the Mississippi River-Gulf Outlet (MRGO): New Orleans, Louisiana, Pontchartrain Institute for Environmental Sciences, University of New Orleans. (Report prepared for Lake Pontchartrain Basin Foundation).

Miner, M.D., Kulp, M., Weathers, H.D., and Flocks, J., 2009, Chapter D. Historical (1869–2007) sea floor evolution and sediment dynamics along the Chandeleur Islands, in Lavoie, D. (ed.), Sand resources, regional geology, and coastal processes of the Chandeleur Islands coastal system—an evaluation of the Breton National Wildlife Refuge: U.S. Geological Survey Scientific Investigations Report 2009–5252, p. 47–74.

Fearnley, S., **Miner, M.**, Kulp, M., Bohling, C., Martinez, L., and Penland, S., 2009, Chapter A. Hurricane impact and recovery shoreline change analysis and historical island configuration—1700s to 2005, in Lavoie, D. (ed.), Sand resources, regional geology, and coastal processes of the Chandeleur Islands

coastal system—an evaluation of the Breton National Wildlife Refuge: U.S. Geological Survey Scientific Investigations Report 2009–5252, p. 7–26.

Lavoie, D., **Miner, M.**, Georgiou, I.Y., Fearnley, S., Sallenger, A.H., Jr., Williams, S.J., Twichell, D., Flocks, J., and Kulp, M., 2009, Chapter I. Summary and discussion, in Lavoie, D. (ed.), Sand resources, regional geology, and coastal processes of the Chandeleur Islands coastal system—an evaluation of the Breton National Wildlife Refuge: U.S. Geological Survey Scientific Investigations Report 2009–5252, p. 169–180.

Miner, M.D., Kulp, M., Flocks, J., Twichell, D., Penland, S., Martinez, L., Motti, J., Weathers, DeWitt, N., Reynolds, B.J., Baldwin, W., Danforth, B., Worley, C., Bergeron, E., Ferina, N., McCarty, P., Brown, M. and Torres, J., 2009, Louisiana Barrier Island Comprehensive Monitoring Program, Volume 3: South-Central Louisiana and Northern Chandeleur Islands, Bathymetry and Historical Seafloor Change 1873- 2006, Part 1: Methods and Error Analysis for Bathymetry, University of New Orleans - Pontchartrain Institute for Environmental Sciences and US Geological Survey, Submitted to Louisiana Department of Natural Resources, 44 p.

Miner, M.D., Kulp, M., Flocks, J., Twichell, D., Martinez, L., Motti, J., Weathers, DeWitt, N., Reynolds, B.J., Baldwin, W., Danforth, B., Worley, C., Bergeron, E., Ferina, N., McCarty, P., Brown, M. and Torres, J., 2009, Louisiana Barrier Island Comprehensive Monitoring Program, Volume 3: South-Central Louisiana and Northern Chandeleur Islands, Bathymetry and Historical Seafloor Change 1873-2006, Part 2: Bathymetry Maps, University of New Orleans - Pontchartrain Institute for Environmental Sciences and US Geological Survey, Submitted to Louisiana Department of Natural Resources, 26 p.

Miner, M.D., Kulp, M., Flocks, J., Twichell, D., Penland, S., Martinez, L., Motti, J., Weathers, DeWitt, N., Reynolds, B.J., Baldwin, W., Danforth, B., Worley, C., Bergeron, E., Ferina, N., McCarty, P., Brown, M. and Torres, J., 2009, Louisiana Barrier Island Comprehensive Monitoring Program, Volume 3: Bathymetry and Historical Seafloor Change 1869 – 2007, Part 3: Southern Chandeleur Islands and Western Chenier Beaches, Bathymetry Maps, University of New Orleans - Pontchartrain Institute for Environmental Sciences submitted to Louisiana Department of Natural Resources, 16 p.

Fearnley, S., Brien, L., Martinez, L., **Miner, M.**, Kulp, M., and Penland, S., 2009, Louisiana Barrier Island Comprehensive Monitoring Program (BICM), Volume 5: Chenier Plain, South-Central Louisiana, and Chandeleur Islands, Habit Mapping and Change Analysis: 1996 to 2005, Part 1: Methods for Habitat Mapping and Change Analysis 1996 to 2005, University of New Orleans - Pontchartrain Institute for Environmental Sciences submitted to Louisiana Department of Natural Resources, 11 p.

Fearnley, S., Brien, L., Martinez, L., **Miner, M.**, Kulp, M., and Penland, S., 2009, Louisiana Barrier Island Comprehensive Monitoring Program (BICM), Volume 5:

Chenier Plain, South-Central Louisiana, and Chandeleur Islands, Habitat Mapping and Change Analysis: 1996 to 2005, Part 2: Habitat, Habitat Change, Land Loss, and Mosaic Maps, University of New Orleans - Pontchartrain Institute for Environmental Sciences submitted to Louisiana Department of Natural Resources, 276 p.

Fearnley, S., Brien, L., Martinez, L., **Miner, M.**, Kulp, M., and Penland, S., 2009, Louisiana Barrier Island Comprehensive Monitoring Program (BICM), Volume 5: Chenier Plain, South-Central Louisiana, and Chandeleur Islands, Habitat Mapping and Change Analysis: 1996 to 2005, Part 3: Habitat Class Tables Habitat Change Tables, and Final Statistics, University of New Orleans - Pontchartrain Institute for Environmental Sciences submitted to Louisiana Department of Natural Resources, 78 p.

Fearnley, S., Brien, L., Martinez, L., **Miner, M.**, Kulp, M., and Penland, S., 2009, Louisiana Barrier Island Comprehensive Monitoring Program (BICM), Volume 5: Chenier Plain, South-Central Louisiana, and Chandeleur Islands, Habitat Mapping and Change Analysis: 1996 to 2005, Part 4: Results and Interpretation of the Habitat Mapping and Change Analysis, University of New Orleans - Pontchartrain Institute for Environmental Sciences submitted to Louisiana Department of Natural Resources, 28 p.

Fearnley, S., Brien, L., Martinez, L., **Miner, M.**, Kulp, M., and Penland, S., 2009, Louisiana Barrier Island Comprehensive Monitoring Program (BICM), Timbalier Island (TE-40) Habitat Mapping and Change Analysis: 2005 to 2006, Final Report, University of New Orleans - Pontchartrain Institute for Environmental Sciences submitted to Louisiana Department of Natural Resources, 16 p.

Nayegandhi, A., Brock, J.C., Wright, C.W., **Miner, M.D.**, Yates, X., and Bonisteel, J.M., 2009, EAARL Coastal Topography - Pearl River Delta: Bare Earth: USGS Data Series 416, DVD-ROM.

Nayegandhi, A., Brock, J.C., Wright, C.W., **Miner, M.D.**, Yates, X., and Bonisteel, J.M., 2009, EAARL Coastal Topography - Pearl River Delta: First Surface: USGS Data Series 417, DVD-ROM.

FitzGerald, D.M., Howes, N., Hughes, Z., Kulp, M.A., Georgiou, I., and **Miner, M.D.**, 2008, Evolving wetlands and field and modeling studies, Annual CIRP Technology-Transfer Workshop Estuarine Design and Research Needs: Navigation Channels, Estuarine Vegetation, Placement of Dredged Sediments, and Long-term Estuary Evolution, vol. 9, 43 p.

Brown, M., Weathers, D., **Miner, M.**, McCarty, P. and Kulp, M., 2006, Core Descriptions and Grain-Size Analyses for the Whiskey Island Back-Barrier Marsh Creation: LDNR Project No. TE-50: Coastal Research Laboratory, University of New Orleans, Pontchartrain Institute for Environmental Sciences, Technical Report 06-003, Prepared for Ocean Surveys Inc., 151 p.

Calderon, K., Dadisman, S.V., Flocks, J., Kulp, M.A., **Miner, M.D.**, Wiese, D.S. and Harrison, A.S., 2005, Archive of digital boomer and chirp seismic reflection data collected during USGS cruise 04SCC01, Terrebonne, Timbalier, and Barataria Bays and Lake Pelto, Louisiana, June and July 2004: U.S. Geological Survey Data Series 237, DVD-ROM.

Participation at Professional Meetings
Presentations

Miner, M.D., Duplantis, B., and Mallindine, J., 2018, The Gulfwide sand inventory: Identifying significant offshore sediment resources to inform oil and gas pipeline decommissioning decisions and long-term restoration planning: Louisiana State of the Coast Conference, May 30-June 1, 2018, New Orleans, Louisiana.

Miner, M.D., 2017, Gulf-wide Offshore Sand Resources Inventory: Gulf of Mexico Alliance All Hands Meeting: March 29-31, 2017, Houston, Texas.

Miner, M.D., 2016, Managing Offshore Sand Resources for Gulf Coast Restoration: 8th National Summit on Coastal and Estuarine Restoration and 25th Biennial Meeting of the Coastal Society, December 10-15, 2016, New Orleans, Louisiana.

Miner, M.D., 2016, BOEM Gulf of Mexico Region Marine Minerals Program (invited): Air and Waste Management Association 109th Annual Conference and Exhibition, June 20-23, New Orleans, Louisiana.

Miner, M.D., Kulp, M.A., and FitzGerald, D.M., 2010, Stratigraphic Architecture of Transgressive Tidal Inlet Fill: American Association of Petroleum Geologists Annual Convention, April 12-15, 2010, New Orleans, Louisiana.

Miner, M.D., Georgiou, I.Y., Kulp, M.A., FitzGerald, D.M., Twichell, D., Flocks, J., and Lavoie, D., 2009, Geomorphic-Based Barrier Island Transgression Management, Chandeleur Islands, Louisiana: Geological Society of America Annual Meeting, Oct 14-19, 2009, Portland, OR.

Miner, M.D., Kulp, M.A., Georgiou, I., FitzGerald, D., Flocks, J., Twichell, D., and Sallenger, A., 2008, The Role of Hurricanes in the Long-Term Evolution of the Chandeleur Islands: Implications for Barrier Management: 9th Biennial Basics of the Basin Research Symposium, Pontchartrain Research Committee and Gulf Estuarine Society, November 5-7, 2008, New Orleans, LA.

Miner, M.D., Kulp, M.A., Flocks, J.G., Twichell, D., FitzGerald, D., and Lee, D., 2008, Regional Coastal Evolution along the Mississippi River Delta Plain: Geological Society of America Annual Meeting, October 3-7, 2008, Houston, TX.

Miner, M.D., Kulp, M.A., Georgiou, I., Flocks, J.G., Twichell, D., Sallenger, A., and FitzGerald, D.M., 2008, The Role of Hurricanes in Long-Term Morphologic Evolution of the Chandeleur Islands, Louisiana: Annual Meeting, Association of Environmental and Engineering Geologists, September 15-20, 2008, New Orleans, Louisiana.

Miner, M.D., Kulp, M.A., Flocks, J.G., and FitzGerald, D.M., 2008, Regional Coastal Evolution in Response to Rapid Relative Sea-level Rise and Wetland Loss, South-Central Louisiana: Annual Meeting, Association of Environmental and Engineering Geologists, September 15-20, 2008, New Orleans, Louisiana.

Miner, M.D., Kulp, M.A., Georgiou, I.Y., Sallenger, A., FitzGerald, D.M., Flocks, J., and Twichell, D., 2008, Sediment Transport Trends along the Chandeleur Islands, Louisiana: Implications for Island Sustainability and Barrier Island Management: 2008 AGU, ASLO, OS, and ERF Joint Oceans Sciences Meeting, Orlando, Florida, March 2-7, 2008.

Miner, M.D., Kulp, M.A., and Penland, S., 2007, Transgressive Submergence of Barrier Islands: The Role of Multiple Hurricane Impacts on the Southern Chandeleur Islands, Louisiana: Geological Society of America Annual Meeting, October 28-31, 2007, Denver, CO.

Miner, M. D., FitzGerald, D.M., and Kulp, M.A., 2007, 1880 to 2005 Morphologic evolution of a transgressive tidal inlet, Little Pass Timbalier, Louisiana: Coastal Sediments '07, Proceedings of the 6th International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, American Society of Civil Engineers, May 13-17, 2007, New Orleans Louisiana.

Miner, M. D., Kulp, M.A, and FitzGerald, D.M., 2007, Tidal versus shoreface ravinement and tidal inlet fill preservation potential for transgressive tidal inlets Mississippi River Delta Plain, USA: 9th International Coastal Symposium, April 16-19, 2007, Gold Coast, Australia.

Miner, M. D., Kulp, M. A., and FitzGerald, D. M., 2006, Short Term Morphologic Changes to a Transgressive Tidal Inlet System due to the Active 2005 Hurricane Season, Little Pass Timbalier, Louisiana: Gulf Coast Association of Geological Societies Annual Convention, Lafayette, LA, September 21-21, 2006.

Miner, M. D., Briuglio, S. L., and Kulp, M. A., 2005, Morphologic Evolutionary Model of a Transgressive Tidal Inlet, Little Pass Timbalier, Louisiana: 21st Annual Louisiana Remote Sensing and GIS Workshop, New Orleans, LA, April 19-21, 2005.

Field Trips

March 24, 2009, US Geological Survey, Northern Gulf of Mexico Project Annual Science Meeting, Post-Katrina Flood Protection in New Orleans: Social, Hydrodynamic, and Geologic Considerations; Co-Leader

May 17, 2007, American Society of Civil Engineers, Coastal Sediments 07',
Geology of the Louisiana Coastal Zone: Implications for Coastal
Management and Restoration; Co-Leader

June 28-29, 2005, Society of Petrophysicists and Well Log Analysts, Annual
Symposium, Sedimentology of Fluvial Deposits from Coastal Streams,
North shore of Lake Pontchartrain; Field Assistant

April - May 2005, American Association of Petroleum Geologists Field Seminar:
Modern Clastic Depositional Environments, Coastal South Carolina; Field
Assistant

Other Scholarly or Creative Activities

September 2021: American Shore and Beach Preservation Association, National Coastal
Conference, Session Chair: Northern Gulf of Mexico Regional Sediment
Management

January 2020 to present: The University of Mississippi Department of Geology and
Geological Engineering Advisory Board Member

July 2019 to present: Member of the Geology Advisory Board at Fletcher Technical
Community College

October 2015 to August 2016: Volunteer technical expert for Lake Pontchartrain Basin
Foundation on Pontchartrain Beach Restoration Project, Sand Committee

March 2010 to April 2011: Geological Society of America, Technical Program Chairman,
2011 South-Central Section Annual Meeting, New Orleans, Louisiana

June 2008 to June 2009: Editor for NOGS Log a monthly publication of the New Orleans
Geological Society

June 2007 to June 2009: Member of New Orleans Geological Society 2007-2008 and
2008-2009 Board of Directors

March to October 2008, Geological Society of America Annual Meeting, Technical
Session Organizer and Chairman; The Mississippi River Delta as a Natural
Laboratory for Evaluating Coastal Response to Relative Sea-Level Rise and
Innovations in Transgressive Coastal Management: Shea Penland Memorial
Session

March 2007: Reviewer for 9th International Coastal Symposium, Journal of Coastal
Research special Issue no. 50

Invited Talks

November 17, 2017: Barrier Island Restoration Using Offshore Sand: Applied
Science to Inform Resource Management and Operations on the
Continental Shelf: presented to LSU College of the Coast and
Environment Seminar Series, Louisiana State University, Baton Rouge,
LA.

September 29, 2016: Managing Offshore Sand Resources for Gulf Coast
Restoration: presented to Gulf of Mexico Alliance Business Advisory
Council at Audubon Species Survival Center, New Orleans, LA.

July 14, 2016: Barrier Island Restoration Using Offshore Sand: Applied Science to Inform Resource Management and Operations on the Continental Shelf: presented to Marine Geosciences Division and Oceanography Division Seminar Series, Naval Research Laboratory, Stennis Space Center, MS.

April 30, 2009: Mississippi River Delta Plain: Controls on Coastal Evolution, Interior Wetland Sustainability, and Sediment Dynamics; presented to the Environmental Branch at U.S. Army Engineer Research and Development Center, Vicksburg, MS.

April 27, 2009: Barrier Island and Tidal Inlet Morphologic Evolution and Sediment Dynamics: Southern Chandeleur Islands, Louisiana; presented to the MRGO Deauthorization Mitigation Habitat Evaluation Team, U.S. Army Corps of Engineers, New Orleans District, New Orleans, LA.

September 26, 2008: Coastal Evolution and Sediment Dynamics along Mississippi River Delta Plain Barrier Shorelines; presented at Tulane University, Department of Earth and Environmental Sciences 2008-2009 Seminar Series, New Orleans, LA.

July 18, 2008: Regional Coastal Evolution along the Mississippi River Delta Plain: Sediment Dynamics and Implications for Large-Scale Coastal Restoration; presented at the Geological Facts of Life for Flood Protection in Coastal Louisiana, a symposium hosted by the Southeast Louisiana Flood Protection Authorities, Louisiana Geological Survey, and New Orleans Geological Society, New Orleans, LA.

April 16, 2008: Tidal Inlet Response to Sea Level Rise, Mississippi River Delta Plain; Presented at the University of New Orleans Office of Research and Sponsored Programs Community Service Jam Session, New Orleans, LA.

November 30, 2007: Tidal Inlet Morphologic Evolution in Response to Rapid Relative Sea Level Rise, Increasing Tidal Prism, and Hurricane Impacts: Mississippi Delta Plain, LA; presented to the Coastal Inlets Research Program at U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Professional society membership

Geological Society of America
New Orleans Geological Society
American Shore and Beach Preservation Association

Awards, Lectureships, or Prizes

2015 BOEM Gulf of Mexico Region, Distinguished Scientist Unsung Hero Award
2011 U.S. Department of Interior, Environmental Achievement Award, Southeast Louisiana Dream Team with U.S Geological Survey, U.S. Fish and Wildlife Service, and Bureau of Ocean Energy Management

2009 New Orleans Geological Society 2008-2009 President's Award
2008 New Orleans Geological Society 2007-2008 President's Award
2007 New Orleans Geological Society Graduate Foundation Scholarship
2004-2007 Louisiana State University System Board of Regents Crescent City Doctoral
Scholarship
2004 Geological Society of America Student Research Grant
2001 Gulf Coast Association of Geological Societies Student Research Grant
2001 American Association of Petroleum Geologists Grants-In-Aid

Thesis/Dissertation Committee Service

Committee Member, Md Mohiuddin Sakib, M.S. Thesis, Fate and Transport of Muddy Shoreface Sediments During Storms in Louisiana: Implications for the Morphodynamic Trajectory of Barrier Island and Interior Bays/Marshes, expected completion date: May 2021

Committee Member, Brittany Kime, M.S. Thesis, Influence of Sand Nourishment on Long Term Barrier Island Evolution: Offshore versus Nearshore Sand Resources, completion date: August 2018

Committee Member, Ben Beasley, M.S. Thesis, Coupled Barrier Island and Shoreface Dynamics: A Comprehensive Understanding of Coast-Wide Response to Transgression, completion date: August 2018

Committee Member, Robert Hollis, M.S. Thesis, Constraining the Evolution of Inner Shelf Sand Ridges and Subsurface Sandy Deposits Offshore Mississippi, USA, completion date: December 2018

Committee Member, Nina Schulze, M.S. Thesis, Holocene Evolution of Horn Island, Mississippi, USA, completion date: December 2018

Committee Member, Timothy Nelson, M.S. Thesis, Hydrodynamic Controls on the Morphodynamic Evolution of Subaqueous Landforms, completion date: December 2017

Committee Member, Ross Reahard, M.S. Thesis, Backbarrier Seagrass Distribution of the Chandeleur Islands: The Utility of Remotely Sensed Data in Mapping Seagrass Trends, Expected completion date: December 2015

Committee Member, Jordyn Spizale, M.S. Thesis, Tidal inlet evolution at Caminada Pass, Louisiana, USA, completion date: December 2013

Committee Member, William Stein, Ph.D. Dissertation, Fish and decapod community structure in estuarine habitats of the New Orleans Land Bridge, including a description of the life cycle of tarpon (*Megalops atlanticus*) in southeastern Louisiana, completion date: May 2013

Committee Member, Mary Ellison, M.S. Thesis, Facies control on mainland marsh shoreline response to barrier island transgressive submergence, St. Bernard Delta, Louisiana, completion date: August 2011

Committee Member, Kate Rose, M.S. Thesis, Holocene Evolution of Cat Island, Mississippi, completion date: December 2010

Committee Member, Sarah Fearnley, Ph.D. Dissertation, Development of design criteria based on the properties of the soil environment to restore coastal habitats using dredge material in the Louisiana Coastal Zone, Louisiana, USA, completion date: December 2010

Committee Member, Scott Wessels, M.S. Thesis, Stratigraphy of the Mississippi River incised valley, completion date: August 2010

Committee Member, Dane Fischer, M.S. Thesis, Stratigraphy and structural composition of the Pearl River Delta area, southeastern Louisiana and southwestern Mississippi, completion date: August 2010

Committee Member, Frank Willis, Ph.D. Dissertation, Determination of the 1812 ordinary high water mark of Catahoula Lake in central Louisiana, completion date: August 2009

Committee Member, Bryan Rogers, M.S. Thesis, Evolution of the lower St. Bernard delta complex, central Gulf of Mexico inner shelf, and St. Bernard Shoals, completion date: May 2009

Other Professional Involvement

October 2017 to September 2018: Bureau representative for DOI Gulf Restoration coordination team.

August 2016 to September 2018: Federal Co-Lead, Gulf of Mexico Alliance Regional Sediment Management Working Group

October 2015 to December 2016: Leader, Coastal Resilience through Restoration, DOI Gulf Restoration Project Development Working Group

March 2014 to November 2014: Member of DOI Technical Review Panel for Gulf RESTORE council proposals

October 2012 to September 2018: BOEM Gulf of Mexico Region Representative DOI Gulf of Mexico Restoration Science Team

March 2011 to October 2012: Member of Gulf Coast Ecosystem Restoration Task Force – Sediment Management Working Group

January 2011 to October 2012: Member and subgroup leader for Gulf Coast Ecosystem Restoration Task Force – Science Coordination Team

August 2010 to September 2018: Bureau representative, Habitat Conservation and Restoration Team, Gulf of Mexico Alliance

March 2009 to 2012: Member of New Orleans Geological Society Committee for Geologic Facts of Life for Flood Protection Symposium

July 18, 2008: Public presentation and discussion panel member at the Geological Facts of Life for Flood Protection in Louisiana Symposium