

## **Ioannis Y. Georgiou**

Director of Coastal and Deltaic Systems Modeling  
The Water Institute of the Gulf

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### **Appointments**

Olga Braunstein Endowed Professor in Sedimentary Geology (Nov. 2017 – Present)  
Chair, Dept. of Earth and Environmental Sciences, University of New Orleans (May 2017 – Present)  
Associate Professor, Earth and Environmental Sciences, University of New Orleans (Aug. 2012 – Present)  
Director, Pontchartrain Institute for Environmental Sciences, University of New Orleans (2013 - present)  
Assistant Professor, Earth and Environmental Sciences, University of New Orleans, (2007 – Aug. 2012)  
Assistant Professor Research, Pontchartrain Institute for Environmental Sciences, University of New Orleans (2005 – 2007)  
Post-Doctoral Associate, Pontchartrain Institute for Environmental Sciences, University of New Orleans (2002 – 2004)  
Adjunct Professor, College of Science, University of New Orleans (2002 – 2004)  
Adjunct Professor, College of Engineering, University of New Orleans (2002 – 2004)

### **Education**

Ph.D., Engineering and Applied Sciences, University of New Orleans, New Orleans LA, 2002  
(major: Hydrodynamics; minor: Coastal Geomorphology). Advisor: John Alex McCorquodale, 2002,  
Dissertation: *Three-dimensional Hydrodynamics Modeling of Circulation and Salinity Intrusion in Shallow Estuaries*  
M.Sc., Water Resources, Civil and Environmental Engineering, University of New Orleans, University of New Orleans, New Orleans, LA, 1999. Advisor: Marty Tittlebaum. Thesis: *Infiltration Inflow in Urban Stormwater Systems associated with non-NPDES entities*,  
B.Sc., Louisiana State University, Civil Engineering (minor: Env. Engineering) Baton Rouge, LA, 1997.  
HND, Higher Technical Institute, Civil Engineering, Lefkosia, Cyprus, HND, 1992. Thesis: *High workability concrete using admixtures*

### **Fellowships, Honors, Recognition**

Reviewer Distinction Recognition, Estuarine Coastal and Shelf Science, Elsevier (2018)  
Outstanding Reviewer Award, Estuarine Coastal and Shelf Science, Elsevier (2017)  
Olga Braunstein Endowed Professorship in Sedimentary Geology (2017)  
Reviewer Distinction Recognition, Journal of Hydrology, Elsevier (2008)  
Team Achievement Award (2005); presented by the US Army Corps of Engineers and the State of Louisiana (for contribution to the Louisiana Coastal Area Ecosystem Restoration Study)  
Crescent City Doctoral Fellowship, University of New Orleans (2000 – 2002)  
Freeport McMoRan Graduate Research Assistantship, Freeport McMoRan Inc. (1999 – 2001)  
Urban Water Research Assistantship - Environmental Protection Agency (EPA) (1997-1999)

### **Courses Taught**

EES 4900/5900 Coastal Processes and Geomorphology (senior undergraduate and graduate level). Every Fall from 2008 - Present  
EES 4925/5925 - Introduction to Physical Oceanography, (senior undergraduate and graduate level). Every spring from spring 2012 – Present  
EES 6096 - Special Topics - Data Analysis Methods in Earth and Environmental Sciences graduate level (Fall 2015; 2017)

EES 6925 - Earth Surface Processes and Environment Dynamics (graduate level), Every spring from spring 2011-present

EES 6096 - Special Topics - Barrier Island Dynamics (graduate level), Spring 2010-2016

EES 6780 – Applied Environmental Modeling, Fall 2009, 2010

Other courses:

Hydrology – Civil Engineering, 2003-2005

Hydraulic Engineering Systems – 2003 – 2004

### **Student and Postdoctoral Research Advised**

#### **Undergraduate (at UNO) and High School Students:**

Nelsy Osorio (2019) Controls on lateral migration in meandering channels using physical modeling

Leah Tevis (2018-19) Grain size distribution along deltaic headlands and the shoreface post beach and dune nourishment

Brennan Robertson (2019) Holy Cross High School, Marsh shear strength and surface water characteristics as indicators of vulnerability.

Ernesto Hernandez (2018) Distribution of grain size in fluvial and tidal (dominant) systems

Scott Romain (2017) Does floodplain width control meander intensity? Physical experiments of sedimentation and meandering dynamics in fluvially dominated systems

Camryn Martin (2016) Controls on tidal point bar evolution and sedimentary architecture using physical modeling

Tara Yocum (2013-2014) Delta scaling laws for small crevasses in the Mississippi River delta plain; implications for land building

Jeremy Henley (2013-2014) The occurrence of stratification induced hypoxia in the Chandeleur Sound; Insights into physical controls

Emily Harper (2012-2014) Settling properties and particle size distribution of natural sand/mud mixtures

Mia Muhsen (2011) Ursuline Academy in New Orleans, Dependency of concrete strength to water-cement ratio and aggregate ratios

Angela Scheuer (2011) Wave transformation during storms in nearshore environments at Barrier Islands

#### **PhD students as secondary advisor or contributing advisor:**

Patrick Smith (2014) Dissertation: Red Drum (*Sciaenops ocellatus*) site fidelity, movement patterns, and habitat use in coastal Louisiana, including an assessment of the response of Red Drum and associated fish assemblages to a change in water quality management in an urban waterway in New Orleans, Louisiana

William Stein III (2013) Dissertation: Fish assemblage change along the New Orleans land bridge; contributions to stocks in the Gulf of Mexico

Karim El Kheishy (2007) Dissertation: Three-dimensional hydrodynamic and sediment transport modeling in the lower Mississippi River.

Chilmakuri Chandra Sekhar (2005) Dissertation: Sediment Transport and Pathogen Indicator Modeling in Lake Pontchartrain.

#### **Post-doctoral advisees/co-advisees:**

Madeline Foster-Martinez (2019) – Coastal Wetland Hydrodynamics and Sediment Dynamics

Ahmed Gaweesh (2015-2016) – Fluvio-deltaic Morphodynamics

Joao Pereira (2012-2013) – Riverine Morphodynamics

#### **PhD students as primary advisor/co-advisor:**

*Current*

Kevin Hanegan (2019) Dissertation: Morphodynamics of Transgressive Coastal Systems - Modeling allogenic and autogenic response to sea level rise and changes in sediment supply

Pricilla Souza (2019) Dissertation: Sedimentology, stratigraphy, and physical processes driving the evolution and internal architecture of tidal point bars

Sean Kenny, (2020) Dissertation: Storm Induced Sediment Transport: Understanding depositional trends and connections between shelf, shoreface, estuaries and wetlands

*Completed*

Michael Eller, (2013) Dissertation: Utilizing economic and environmental data from desalination operations as a progressive approach to Ocean Thermal Energy Conversion (OTEC) planning

Gregorzewski Alison Sleath (2012) Medical withdrawal, Dissertation: Storm induced sediment transport on Barrier Islands Systems.

**Masters students as primary advisor:**

Joshua Thomas (2019) Thesis: Evolution of Water and Sediment Fluxes in newly formed distributary: Mardi Gras Pass, Louisiana USA.

Jessica Villers (2020) Thesis: Water and Sediment Fluxes in restored and un-Restored shorelines

Joshua Hansen (2019) Thesis: Channel Evolution and Distributary Network Stability of a Recent Natural Levee Breach under Microtidal Influence

MD Mohiuddin Sakib (2020) Thesis: Storm-induced Shoreface Sediment fluxes in the Mississippi Delta

*Completed*

Brittany Kime (2018) Thesis: A comparison of Barrier Island Morphology Trajectories using nearshore versus outer continental shelf sand for nourishment

Benjamin Beasley (2018) Thesis: Coupled Barrier Island and Shoreface Dynamics: Observations and Modeling in Coastal Louisiana

Joshua Flathers (2018) Thesis: Controls on stratigraphic evolution in tidally-influenced systems with intra-channel and intra-basin tidal point bars

Timothy Nelson (2017) Thesis: Hydrodynamic Controls on the Morphodynamic evolution of subaqueous landforms

Tara Yocum (2017) Thesis: Growth laws for sub-delta crevasses in the Mississippi River Delta: observations and modeling

Joshua Alarcon (2016) Thesis: Overwash controls on barrier island morphodynamics during storms

Kevin Trosclair (2013) Thesis: Wave transformation on a saltmarsh edge; non-linear effects of breaking waves

Robin Schroeder (2011) Thesis: Tidal exchange flows in an urban water body; implications on habitat management as a result of anthropogenic alteration

Chris Esposito (2011) Thesis: Differential Sedimentation in a Mississippi River Crevasse Splay (May 2011).

Jennifer Schindler (2010) Thesis: Estuarine Dynamics as a Function of Barrier Island Transgression and Wetland Loss: Understanding the Transport and Exchange Processes

**Other committee Service (Member, Masters and Doctoral):**

Meghan Gham (PhD) Development of Specialized Turtle Excluder Devices (TEDs) Designed to Eliminate Bycatch of Sea Turtles in Small Skimmer Trawls, Wing Nets, and Try Nets

Julie Torres (M.Sc.) Geomorphic Evolution of Grand Isle Louisiana

Damon Morse (M.Sc.) Controls on the Distribution of Apple Snails in an Urban Park

*Completed*

Andrew Courtois (M.Sc.) A Regional Survey of River-plume Sedimentation on the Mississippi River Delta Front and its Implications for Submarine Landslide Activity (2018)

Frances Crawford (M.Sc.) Shell Berms Evolution in southeast Louisiana (2018)

- Arnaud Kerisit (M.Sc.) Zooplankton Community Composition in Natural and Artificial Estuarine Passes of Lake Pontchartrain, Louisiana. (2018)
- Nina Rijns (PhD) Long Term Bathymetry Changes in the Lower Mississippi River due to Variability in Hydrograph and Variable Diversion Schemes (2018)
- Ronald Giardina (M.Sc.) On The Ramberg-Osgood Stress-Strain Model And Large Deformations of Cantilever Beams (2017)
- Lamine Meroudj (M.Sc.) Seismic Facies Classification of an Intraslope Minibasin in The Keathley Canyon, Northern Gulf of Mexico (2017)
- Prabhat Neupane (PhD) Paleohydrology and Paleocology of the Neogene Siwalik rocks, Nepalese Himalaya using multi-proxy lipid biomarker isotopic study (2017)
- Brian Carter (M.Sc.) Tidal Creek Equilibrium: Barataria Bay, Louisiana (2017)
- Trey Kramer (M.Sc.) Barrier spit evolution and primary consolidation of backbarrier facies: West Belle Pass Barrier, LA (2016)
- David Cross (M.Sc.) High-frequency tectonic sequences in the Campanian Castlegate Formation during a transition from the Sevier to Laramide orogeny, Utah, U.S.A. (2016)
- Rachelle Thomason (M.Sc.) Biloxi Marsh Platform Response to Meteorological forcing (2016)
- Geoff Udolf (M.Sc.) An Alternate Trawling Method: Reduced Bycatch and Benthic Disturbance Achieved with the Wing Trawling System (2016)
- Steve Ayres (PhD) A Simulation of the Mississippi River Salt Wedge Estuary Using a Three-Dimensional Cartesian Z Coordinate Model (2015)
- Jordyn Spizale (M.Sc.) Modern Evolution of the Caminada Pass Inlet, South Louisiana (Summer 2013).
- Rebecca Weatherall Cope (M.Sc.) Transition changes in larvae transport and assemblages in Lake Pontchartrain as a function of MRGO closure (December 2013).
- Hiranya R. (PhD) Stratigraphic compartmentalization of Cretaceous coastal-plain deposits of the Blackhawk Formation - Wasatch Plateau, Utah (May 2012)
- Ben Kirkland (M.Sc.) Longshore Transport and Effects on Island Geomorphology, Isles Dernieres, LA (Summer 2012)
- Kyriakos Tsiappoutas (PhD) - Statistical Spectral Parameter Estimation of Acoustic Signals with Applications to Byzantine Music (December 2011)
- Prabat, N. (M.Sc.) Understanding uplift of the Ethiopian Plateau from longitudinal profile analysis of the Blue Nile drainage system (December, 2011)
- Mathjis Bos (MSc – TU Delft, Delft Netherlands) The morphological effects of sediment diversions on the Lower Mississippi River. (June 2011)
- Sanne van den Heuvel (M.Sc., Delft University) The effect of salinity gradients on conditions for marsh stabilization and marsh growth in the St. Bernard Parish, Louisiana, U.S. (May 2010)
- Kathlyn Rose (MSc) – Geologic evolution and shallow stratigraphy of Cat Island, MS.
- Joao Pereira (PhD, College of Engineering) - Three-dimensional sediment transport modeling in the lower Mississippi river (May 2011).
- Alissa Gros (M.Sc.) – Buoyancy effects of restored and natural wetlands in Louisiana
- Sunny J. Brogan (M.Sc.) – Redfish habitat use in an urban fishery. (May 2009).
- Scott P. Eustis (M.Sc.) – Assemblage composition of shrimp trawl bycatch. (December 2011).
- Mark Ischen (M.Sc.) Using two-dimensional numerical models to analyze hydraulic effects of constricted flows through the Rigolets Pass in southeast Louisiana (May 2009)
- M. Chad Ellinwood (M.Sc.) – Response and recovery of fish assemblages to hurricane impacts at the Chandeleur Islands, Louisiana. (May 2009).
- Frank Willis (PhD,) A Multidisciplinary Approach for determination of the 1812 Ordinary High Water Mark of Catahoula Lake in Central Louisiana (May 2009)
- Jennifer Roberts, (M.Sc.), Storm induced deposition of sediment in three coastal Louisiana wetlands (August 2009)
- Andrea Bourgeois-Calvin (Ph.D.) – Relationship between land use and surface water quality in a rapidly developing watershed in southeast Louisiana (July 2008).

Michael D., Miner (Ph.D.) Morphologic and Stratigraphic Evolution of a Transgressive Tidal Inlet System, Little Pass Timbalier, Louisiana (May 2006)

Giron Efrain (Ph.D.) Development of a SWMM – GIS Flood Model for New Orleans Drainage Pumping Station No 4 Basin, (2004)

Martinez Maria Carolina (M.Sc.) Water Quality Study of Southshore of Lake Pontchartrain, (graduated in 2005)

### **Invited Scholarly Presentations**

2018: U.S. Army corps of Engineers, New Orleans District, New Orleans LA.

2017: Naval Research Laboratory, Physical Sciences, Stennis Space Center, MS

2016: Deltares and Technical University Delft (TUDelft), Delft, The Netherlands

2016: Tulane University, Department of Earth and Environmental Sciences, New Orleans LA

2016: Universidade Federal de Santa Catarina, Centro de Filosofia e Ciências Humanas, Florianopolis, Santa Catarina, Brazil

2016: University of Southern Mississippi, Dept. of Marine Sciences, Stennis Space Center, MS

2015: Louisiana State University, Dept. of Oceanography and Coastal Studies, Baton Rouge LA

2013: Louisiana State University, School of the Coast and Environment, Baton Rouge, LA

2010: US Army Corps of Engineers, Engineering Research and Development Center, Coastal Hydraulics Laboratory, Vicksburg, MS

2009: US Army Corps of Engineers, New Orleans District, Hydraulics and Hydrology Division, New Orleans LA

2009: Louisiana Universities Marine Consortium (LUMCON), Cocodrie, LA

2009: American Society of Civil Engineers, Annual Conference, Baton Rouge Chapter.

2005, 2006: Louisiana State University, School of the Coast and Environment, Baton Rouge, LA

### **Academic Service**

#### ***On-campus***

2012 – Present; Graduate Coordinator for the Department of Earth and Environmental Sciences

2013 – 2015, Member of the Doctoral Diversity Committee

2013 – 2015, Member of the Engineering and Applied Science Doctoral Program Steering Committee

2013 – 2014, 2017, Served as judge for the Innovate UNO

2011 – 2015, University of New Orleans Undergraduate Retention Committee (College of Science).

2011 – Represented the EES department on the NSF Career Award forum, Baton Rouge, LA

2011, served as judge for the College of Science Undergraduate Research Fair.

2010 – 2015, University Library Senate Committee

2010 – 2015, Teaching Award Selection Committee Member, College of Science.

2007 – 2011, Attended Commencement ceremonies since (2 in 2010 as Marshal).

2009, Earth Week demonstration (fine sediment dynamics), October 12-16.

2009 – Present, Assistant Graduate Coordinator, Earth and Environmental Sciences Department.

2008 to 2009 – Participated in UNO's Get to Know UNO Open House.

2008 – Present, Library Liaison for the Department.

2009 – 2012, Advisory Member, Coastal Education Research Facility (CERF), a Pontchartrain Institute for Environmental Sciences field station.

#### **Off campus**

*Journal review:* Journal of Geophysical Research – Oceans Earth Surface Dynamics, Geophysical Research Letters, Journal of Coastal Research, Journal of Hydraulic Engineering, Journal of Hydrology, Journal of Hydraulic Research, Journal of Climate Research, Nature Climate Research, Continental Shelf Research, Estuarine Coastal and Shelf Science, Estuaries and Coasts, Journal of Hydrologic Engineering, Journal of Marine Geology, Journal of Coastal Research, Ecological Engineering.

- Proposal Review*: NOAA Sea Grant (Louisiana, MS, and AL – 2008, 2010-2011), NSF – Geomorphology and Earth Surface Dynamics Program (2008-present), NSF – Marine Geology program (2009-present), NMFS Cooperative Research Program (2011-13), Louisiana CREST Program (2005-2008). Hudson River Foundation (2018-2019)
- 2013 - 2016 – Served on the State of the Coast (SOC) Program Committee
- 2013 – Member of the Operational Science Advisory Team for Coast Guard during the Deepwater Horizon
- 2012 – 2017, Sciences and Education Advisory Council member for the Louisiana Universities Marine Consortium (LUMCON)
- 2011 - 2013, Served in advisory capacity for the Bayou St. John Alliance group
- 2010 – 2015, NASA Develop Program External Reviewer
- 2010 – Appeared on several news casts, interviews, and provided service to organizations, news agencies, and NGOs regarding the oil spill.
- 2010 – U.S. Coast Guard advisory role in booming operations (Grand Isle Emergency Response unit) – guided booming operations in the vicinity of tidal inlets and in Barataria Bay.
- 2010 – Member of the SERT Advisory Committee during the BP Oil Spill, Office of Coastal Protection and Restoration and LSU
- 2010 – Lead Adviser to U.S. Coast Guard on booming activities in Barataria Bay operations during the BP Oil Spill
- 2009 – Invited participant on table discussion on Desktop Modeling, April 9, LSU Coast and Environment Building.
- 2007 – Served on Multiple Lines of Defense Assessment Team, Lake Pont. Basin Foundation
- 2006 – served on advisory board for the development of the Bayou St. John Comprehensive Management Plan
- 2006 – Served as advisor for scientific development regarding State of Louisiana restoration initiatives, Coastal Louisiana Ecosystem Assessment and Restoration Program (CLEAR), LSU
- 2006 - Conceptual Ecological Modeling Workshop, Reducing flood damage in Coastal Louisiana, Communities, Culture, commerce, CLEAR Program, Louisiana State University.
- 2005 – Served on the Comprehensive Habitat Management Plan, Lake Pont. Basin Foundation

## **Publications**

Please see <https://scholar.google.com/citations?user=P4ADwflIAAAJ&hl=en> for an up-to-date publication list.

Google Scholar citation h-index = 16 i10-index = 28 Citations = 1159.

\* denotes a graduate student, post-doctoral scholar or Georgiou group author

## **Manuscripts submitted, in review, and near submission**

- FitzGerald, D.M., Hughes, Z.J., **Georgiou, I.Y.**, Black, S., Novak, A., An Extreme Marsh Sedimentation Event, **PNAS**, *in-revision*
- Esposito, C., **Georgiou, I.Y.**, Straub, K.M., The role of flow loss in distributary networks on channel sedimentation and morphology, **Journal of Geophysical Research - Earth Surface**, *submitted – in review*
- Maloney, J.M., Bentley, S.J., Xu, K., Obelcz, j., **Georgiou, I.Y.**, Jafari, N., Miner, M.D., Mass Wasting on the Mississippi River subaqueous Delta, Invited Paper, Annual Reviews – Earth Sciences, *submitted – in review*

*Near submission*

- Yocum, T.E.\*, **Georgiou, I.Y.**, Straub, K.M., Growth laws for sub-delta crevasses in the Mississippi River Delta, **Geophysical Research Letters**, *near submission*
- Georgiou, I.Y.**, Trosclair, K.\*, Yocum, T.E.\*, Beasley, B.\*, Overestimation of salt marsh resiliency to violent storms, *near submission*
- Hanegan, K.\*, **Georgiou, I.Y.**, FitzGerald, D.M., Hughes, Z.J., Modeling Interactions between Backbarrier Marshes, Tidal Inlets, Ebb-deltas, and Adjacent Barriers Exposed to Rising Sea Levels, *near submission*
- Souza, P.\*, **Georgiou, I.Y.**, Hughes, Z.J., Howes, N., Gani, M.D., FitzGerald, D.M., Kulp, M.A., Sedimentology of tidal point bars with and without fluvial influence, **Sedimentology**, *near submission*
- Souza, P.\*, **Georgiou, I.Y.**, Hughes, Z.J., Howes, N., FitzGerald, D.M., Facies distribution and lateral accretion of tidal point bars with and without fluvial influence, **Journal of Sedimentary Research**, *near submission*
- Howes, N.C., Hughes, Z.J., **Georgiou, I.Y.**, Wolinsky, M.A., A Conceptual Framework and Classification for the Fluvial-Backwater-Marine Transition in Coastal Rivers Globally. Review article in **Marine Geology**, *in revision for re-submission*

## Manuscripts Published

### Books Chapters and Monographs

1. Bondoni, M.\*, **Georgiou, I.Y.**, Novak, A. 2019, Chapter 14, Marsh Edge Erosion, in Marshes: Function, Dynamics and Stresses, FitzGerald, D.M., and Hughes, Z.J., Editors, **Cambridge Press**, *in press*
2. Carney, J.A., Twilley, R.R., Agre, C., Hird, J., **Georgiou, I.Y.**, Sheldon, J., The Giving Delta, 2019. In: Elizabeth Mossop (eds) Sustainable Coastal Design and Planning, CRC Press - Taylor and Francis, ISBN 978-1-4987-7454-3
3. FitzGerald, D.M., Hein, C.J., Hughes, Z., Kulp, A.M., **Georgiou, I.Y.**, Miner, M.D., Runaway barrier island transgression concept: Global case studies, 2018. In: Moore, L.J. and Murray, A.B., (eds) Barrier Dynamics and the Impact of Climate Change on Barrier Evolution, ISBN 978-3-319-68084-2, pp 3-56.
4. FitzGerald, D., **Georgiou, I.Y.**, and Kulp, M.A., 2016, Deltas, in: Encyclopedia of Marine Geosciences (Harff, J., Meschede, M., Petersen, S., Thiede, J., eds), Springer, New York, DOI 10.1007/978-94-007-6644-0\_159-1, 17 pp. (invited)
5. FitzGerald, D., **Georgiou, I.Y.**, and Miner, M., 2014, Estuaries and Tidal Inlets, in: *Coastal Environments and Global Change* (Masselink, G. and Gehrels, R., eds), Wiley Press, New York, Chapter 12, p. 356-465.
6. Kulp, M.K., FitzGerald, D.M., **Georgiou, I.Y.**, 2014, The Mississippi River Delta; in: Encyclopedia of the worlds Deltas, Elsevier, 17 pp
7. **Georgiou I.Y.**, Kulp, M.A., FitzGerald, D.M., Miner, M., 2010, “The Louisiana Coastline”, in: Encyclopedia of the World’s Coastal Landforms, (eds) E.C.F. Bird, Springer, New York, ISBN: 1402086385, pp. 61 - 68. (invited)
8. McCorquodale J. A., Carnelos S., **Georgiou I.Y.**, Barbé D., Cothren G., Englande A.J., 2004, Fate of Pathogens in Stormwater Plumes, Chapter 5 in: Innovative Modeling of Urban Water Systems, James, William, (eds), Monograph 12, pp. 91-113, CHI Publications.

### Journal Articles

1. Bondoni, M.\*, **Georgiou, I.Y.**, Roelvink, D., Oumeraci, H., 2019. Numerical Modeling of the Erosion of Marsh Boundaries due to Wave Impact, Coastal Engineering, 152 (2019) 103514
2. Shawler, J.L., Hein, C.J., Canuel, E.A., Kaste, J.M., Fitzsimons, G.G., **Georgiou, I.Y.**, Willard, D.A., 2019, Historical land-use changes drive time-varying sedimentation in a formerly glaciated New England estuary, **Anthropocene Coasts**, in-press

3. Hein, C.J. Fallon, A.R., Rosen, P., Hoagland, P., Morris, M., **Georgiou, I.Y.**, FitzGerald, D.M., Baker, S., Marino, G.B., 2019. Shoreline dynamics along a developed river mouth barrier island: Multi-decadal cycles of erosion and event-driven mitigation, *Frontiers in Earth Sciences*, 7, 103, 10.3389/feart.2019.00103
4. Maloney, J.M., Bentley, S.J., Xu, K., Obelcz, j., **Georgiou, I.Y.**, Miner, M.D., 2018. Mississippi River subaqueous delta is entering a stage of decline, *Marine Geology*, 400, pp 12-23, DOI 10.1016/j.margeo.2018.03.001
5. Obelcz, J., Xu, K., **Georgiou, I.Y.**, Maloney, J., Bentley, S.J., Miner, M.D. 2017. Sub-decadal submarine landslides are important drivers of deltaic sediment flux: insights from the Mississippi River Delta Front, *Geology*, 45(8), pp 703-706, DOI 10.1130/G38688.1
6. Darnell, K., Carruthers, T., Biber, P., **Georgiou, I.Y.**, Michot, T.C., Boustany, R.G., 2017. Spatial and temporal patterns in *Thalassia testudinum* tissue nutrients at the Chandeleur Islands, *Estuaries and Coasts*, 40:1288-1300, DOI 10.1007/s12237-017-0229-y
7. Keller, G., Bentley S.J., **Georgiou, I.Y.**, Maloney, J., Miner, M.D., Xu, K., 2016. River-plume sedimentation and <sup>210</sup>Pb/<sup>7</sup>Be seabed delivery on the Mississippi River delta front, *Geo-Marine Letter*, DOI 10.1007/s00367-016-04760-0
8. Hein, C.J., FitzGerald, D.M., de Souza, L.H.P.\*, **Georgiou, I.Y.**, Buynevich, I.V., Klein, A.H.F., de Menezes, J.T., Cleary, W.J., \*Scolaro, T., 2016. Complex coastal change in response to autogenic basin infilling: An example from a sub-tropical Holocene strandplain, *Sedimentology*, doi: 10.1111/sed.12265.
9. Hanegan, K.\*, **Georgiou, I.Y.**, 2015. Tidal modulated flow and sediment flux through Wax Lake Delta distributary channels: Implications for delta development. *International Association of Hydrological Sciences*, 367(367), 391–398. doi:10.5194/piahs-367-391-2015
10. El Keiashy K.\*, McCorquodale J.A., **Georgiou I.Y.**, Meselhe, E.A., 2014, Bed forms resistance dependency on numerical model grid size spatial resolution, *Journal of Spatial Science*, DOI: 10.1080/14498596.2014.879746
11. Esposito, C.R.\*, **Georgiou, I.Y.**, Kolker, A.K., 2013, Hydrodynamic and Geomorphic controls on mouth bar evolution, *Geophysical Research Letters*, doi: 10.1002/grl.50333
12. Barbier E.B., **Georgiou I.Y.**, Enchelmeyer, B., Reed, D.J., 2013, The Value of Wetlands in Protecting Southeast Louisiana from Hurricane Storm Surges. *PLoS ONE* 8(3): e58715. doi:10.1371/journal.pone.0058715
13. Meselhe, E., **Georgiou, I.Y.**, Allison, M.A., McCorquodale, J.A., 2012, Delta building diversions: Numerical modeling of hydrodynamics and sediment transport in the Lower Mississippi River near Myrtle Grove River Bend, *Journal of Hydrology*, 472, 340-354.
14. Grzegorzewski, S.A.\*, **Georgiou, I.Y.**, 2011, Sediment transport trends along an island terminus; A model study during storms in the northern Chandeleur Islands, in *Coastal Sediments*, eds. Wang, P., Rosati, J.D., and Roberts, T.M., v. 3, 2198-2211
15. El Kheishy, K.\*, McCorquodale, J.A., **Georgiou, I.Y.**, and Meselhe, E., 2010, Three dimensional hydrodynamic modeling over bed forms in open channels, *International Journal of Sediment Research*, Vol. 25, No.4, 2010, pp. 431 - 440.
16. Howes, N.C., FitzGerald, D.M., Hughes, Z.J., **Georgiou, I.Y.**, Kulp, M.K., Miner, M.D., Smith, J.M., and Barras, J.A., 2010, Hurricane Induced failure of low salinity wetlands, *Proceedings of the National Academy of Science*, v. 107, 32, 14014-14019, doi/10.1073/pnas.0914582107.
17. Meselhe, E., Pereira, J.F., **Georgiou, I.Y.**, Allison, M.A., McCorquodale, J.A., Davis, M.A., 2010, Numerical modeling of mobile bed hydrodynamics in the lower Mississippi River, in *World Environmental and Water Resources Congress*, Richard N. Palmer, Ed., ASCE, New York, pp. 1433-1442
18. **Georgiou, I.Y.**, McCorquodale, J. A., Schindler, J., Retana A.G., FitzGerald, D.M., Hughes, Z., Howes, N., 2009, Impact of Multiple Freshwater Diversions on the Salinity Distribution in the Pontchartrain Estuary under Tidal Forcing, *Journal of Coastal Research*, Vol. 54, pp. 59 – 70.
19. McCorquodale, J.A., Roblin, R.J., **Georgiou, I.Y.**, Haralampides, K., 2009, Salinity, nutrient, and



- sediment dynamics in the Pontchartrain Estuary, *Journal of Coastal Research*, Vol. 54, pp. 71- 87.
20. Pereira, J.F., J.A. McCorquodale, E.A. Meselhe, **I.Y. Georgiou** and M.A. Allison, 2009, Numerical Simulation of Bed Material Transport in the Lower Mississippi River, *Journal of Coastal Research*, v. 56, ISSN 0749-0248, pp. 1449 – 1453.
  21. **Georgiou, I.Y.**, Schindler, J.\*, 2009, Wave forecasting and longshore sediment transport gradients along a transgressive barrier island; Chandeleur Islands, Louisiana, *GeoMarine Letters*, DOI 10.1007/s00367-009-0165-3, pp. 467 – 476.
  22. 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, doi: 10.1130/G25466A.1.
  23. **Georgiou, I.Y.**, and Schindler, J.\*, 2009, Numerical simulation of waves and sediment transport along a transgressive barrier island, Chapter H., *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, Reston, VA, p. 143–168.
  24. Li, C, N., Walker, A., Hou, **Georgiou I.Y.**, H., Roberts, E., Laws, E., Weeks, X., Li, J., Crochet. 2008. Circular Plumes in Lake Pontchartrain under Wind Straining, *Estuarine Coastal and Shelf Science*, v. 80, iss. 1, p. 161-172.
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#### **Other Publications (includes Technical Reports – since 2007)**

1. **Georgiou, I.Y.**, Yocum, T., 2019, Hydrodynamic measurements and stage discharge relationships for Mardi Gras Pass in southeast Louisiana. Technical Report submitted to the Lake Pontchartrain Basin Foundation, 15 pp.
2. **Georgiou, I.Y.**, Yocum, T.E., and Brown, M.A., 2018. Caminada Headland Beach and Dune Restoration Incr 1 (BA-0045) and Incr 2 (BA-0143): Restoration impacts to Sediment Characteristics. Prepared for Louisiana Coastal Protection and Restoration Authority (CPRA) by the Pontchartrain Institute for Environmental Sciences, University of New Orleans, New Orleans, LA, 55 p
3. Bentley, S.J., Kehui, K., Jafari, N., **Georgiou, I.Y.**, Maloney, J., 2018. Mass Wasting Processes and Products of the Mississippi Delta Front: Data Synthesis and Observation, Progress Report submitted

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  5. Kulp, M.A., **Georgiou, I.Y.**, Brown, M., Courtois, A., Flocks, J.G., Tuten, T., 2017, Louisiana Barrier Island Comprehensive Monitoring Program (BICM) Phase 2 - 2015 Characterization of Surficial Sediments in the Early Lafourche Delta, Late Lafourche Delta, Modern Delta, and Chandeleur Islands Regions: Part A - Data Collection, Sample Processing and Products. Prepared for Louisiana Coastal Protection and Restoration Authority (CPRA) by Pontchartrain Institute for Environmental Sciences, Baton Rouge, LA and New Orleans, LA, 16 p.
  6. **Georgiou, I.Y.**, Kulp, M.A., Brown, M., Courtois, A., Flocks, J.G., Tuten, T., 2017, Louisiana Barrier Island Comprehensive Monitoring Program (BICM) Phase 2 - 2016 Characterization of Surficial Sediments in the Western and Eastern Chenier Plain and Atchafalaya and Wax Lake Delta Regions: Part A - Data Collection, Sample Processing and Products. Prepared for Louisiana Coastal Protection and Restoration Authority (CPRA) by Pontchartrain Institute for Environmental Sciences, Baton Rouge, LA and New Orleans, LA, 15 p.
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20. Sadid, K., Meselhe, E., Allison, M.A, McCorquodale, J.A., Gaweesh, A., Pereira, P\*, **Georgiou, I.Y.**, Vosburg, B., 2012, Numerical Modeling of Bonnet Carré Spillway as a large controlled diversion during the 2011 Mississippi River Flood, Environmental Water Resources Institute, American Society of Civil Engineers, May 19-23, Cincinnati, Ohio
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22. **Georgiou, I.Y.**, Trosclair, K., 2011. Water discharge in a deltaic Louisiana estuary: overbank flow and distribution from the Lower Mississippi River during the 2011 flood, Technical Final Report submitted to the Lake Pontchartrain Basin Foundation, 26 pp.
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**Participation at Professional Meetings (\*student/researcher in Georgiou group)**

1. King, K., Hein, C.J., FitzGerald, D.M.; Hughes, Z.J., Georgiou, I.Y., Connell, J.E., 2019. Saltmarsh event sedimentation: a comparative study of Hurricane IRMA deposits across the southeast USA. Geological Society of America – Southeastern Section. Abstract with Program, Charleston, SC.
2. Connell, Jennifer E.; Herbine, Lauren E.; Gedan, Keryn B.; Hughes, Zoe J.; FitzGerald, Duncan M.; Georgiou, Ioannis Y.; Hein, Christopher J., 2019. Event-Driven Sedimentation in Massachusetts and Virginia Salt Marshes, Geological Society of America – Southeastern Section. Abstract with Program, Charleston, SC.
3. Ryerson, O., FitzGerald, D.M., Hughes, Z.J., Black, S., Georgiou, I.Y., Hein, C.J., Novak, A., 2019. Temporal and spatial variability in inorganic sediment contributions to the Great Marsh, Massachusetts. Geological Society of America – Southeastern Section. Abstract with Program, Charleston, SC.
4. Hein, C.J. Fallon, A.R., Rosen, P., Hoagland, P., Morris, M., Georgiou, I.Y., FitzGerald, D.M., Baker, S., Marino, G.B., 2019. Shoreline dynamics along a developed river mouth barrier island: Multi-decadal cycles of erosion and event-driven mitigation, Geological Society of America – Southeastern Section. Abstract with Program, Charleston, SC.
5. Torres, J., Kulp, M.K., Georgiou, I.Y., FitzGerald, D.M., Lepper, K., 2019. Barrier Island Growth Rates from OSL dated beach ridge sequence in Louisiana. Geological Society of America – Southeastern Section. Abstract with Program, Charleston, SC.
6. Georgiou, I.Y., Beasley, B.\*, Miner, M.D., 2019. Coupled Barrier-System Shoreface and Shoreline Dynamics, Louisiana, USA, Geological Society of America – Southeastern Section. Abstract with Program, Charleston, SC.
7. Torres, J., Kulp, M.K., Georgiou, I.Y., FitzGerald, D.M., 2018. Using Optically Stimulated Luminescence dating of beach ridges to measure Barrier Progradation of Grand Isle, LA. Geological Society of America. Abstract with Program, Mineapolis: GSA.
8. Hughes, Z., FitzGerald, D.M., Georgiou, I.Y., 2018. Assessing the extent and Importance of sedimentation from a 100-year winter storm on salt marsh resilience (Invited Presentation). Geological Society of America. Abstract with Program. Mineapolis: GSA.
9. Cadigan, J., Jafari, N., Georgiou, I.Y., Xu, K., Maloney, J.M., Obelcz, J., Miner, M.D., 2018. Geotechnical Characterization of Mississippi River Delta Front Sediments, AGU Fall Meeting, Abstract with program, #EP31D-2389
10. Obelcz, J., Wood, W.T., Bentley, S.J., Chaytor, J.D., Georgiou, I.Y., Jafari, N., Maloney, J.D., Miner, M.D., Xu, K., 2018, Bringing deltaic geology into the 21st century: A multidisciplinary investigation of the subaqueous Mississippi River Delta Front, AGU Fall Meeting, Abstract with program, #EP23B-04
11. Bentley, S. J., Maloney, J. M., Xu, K., Georgiou, I. Y., Miner, M. D., 2018. Mass Wasting Processes and Products of the Mississippi Delta Front: Data Synthesis and Observation, Louisiana Coastal

- Geology Symposium, Baton Rouge LA.
12. Courtois, A., Bentley, S.J., Xu, K., Georgiou, I.Y., Maloney, J., Miner, M.D., Chaytor, J., 2018. A Regional Survey of River-plume Sedimentation on the Mississippi River Delta Front, Louisiana Coastal Geology Symposium, Baton Rouge LA.
  13. \*Beasley, B., Georgiou, I.Y., Miner, M.D., 2018. Shoreface sediment budget influence on barrier island evolution, Louisiana USA, State of the Coast Conference, New Orleans, LA.
  14. \*Hanegan, K., Georgiou, I.Y., 2018. Maximizing diversion land building with enhanced sediment supply, State of the Coast Conference 2018, New Orleans, LA.
  15. \*Nelson, T., Georgiou, I.Y., 2018. Hydrodynamic controls on the geomorphic evolution of subaqueous landforms, State of the Coast Conference 2018, New Orleans, LA.
  16. \*Kime, B., Georgiou, I.Y., 2018. The Effects of Sediment Properties on Barrier Island Morphology and Processes: Numerical Modeling State of the Coast Conference 2018, New Orleans, LA.
  17. Caffrey, R., Petrolia, D., Wang, H., Georgiou, I.Y., Miner, M.D., 2018. Economic and Geomorphic comparison of OCS sand vs nearshore sand for coastal restoration projects, State of the Coast Conference 2018, New Orleans, LA.
  18. Jobe, Z., Howes, N., Georgiou, I.Y., Cai, D., Deng, H., Laugier, F.J., Shumaker, L., 2018. Comparing Aggradation, Superelevation, and Avulsion Frequency of Submarine and Fluvial Channels, AAPG Annual Conference
  19. \*Beasley, B., Georgiou, I.Y., Miner, M.D., 2017. Transgressive Shoreface Response in the Mississippi River Delta: Shoreface Sediment Budget Influence on Barrier Island Evolution, Louisiana, USA. AGU Fall Meeting, Abstract with program, EP22B-08.
  20. Smith, J.E., Bentley, S.J., Courtois, A., Obelcz, J. Maloney, J., Georgiou, I.Y., Xu, K., 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, AGU Fall Meeting, Abstract with program.
  21. Hughes, Z.J., Georgiou, I.Y., \*Gaweesh, A., \*Hanegan, K., FitzGerald, D.M., 2017. Assessing saltmarsh resilience to sea-level rise by examining sediment transport trends in the Great Marsh MA, AGU Fall Meeting, Abstract with program.
  22. FitzGerald, D.M., Hein, C.J., Georgiou, I.Y., Klein, A.F., 2017. Chenier Development within a Prograding Strandplain Complex, AGU Fall Meeting, Abstract with program.
  23. Courtois, A., Bentley, S.J., Xu, K., Georgiou, I.Y., Maloney, J., Miner, M.D., Chaytor, J., 2017. A Regional Survey of River-plume Sedimentation on the Mississippi River Delta Front, AGU Fall Meeting, Abstract with program.
  24. \*Yocum, T.E., Georgiou, I.Y., Straub, K.M., 2017. Growth laws for sub-delta crevasses in the Mississippi River Delta, AGU Fall Meeting, Abstract with program.
  25. Obelcz, J., Xu, K., Bentley, S.J., Wood, W.T., Georgiou, I.Y., Maloney, J., 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, AGU Fall Meeting, Abstract with program.
  26. Georgiou, I. Y., (2016, November). Testing the runaway transgression hypothesis - Modeling Interactions between Backbarrier Marshes, Tidal Inlets, Ebb-deltas, and Adjacent Barriers Exposed to Rising Sea Levels. Invited talk at Deltares, Netherlands.
  27. Souza, P. C. M.\* , Georgiou, I. Y., Hughes, Z. J., Howes, N., Gani, M. R., & Fitzgerald, D. M. (2015, November). Architecture and evolution of tidal point bars: influence of the hydrodynamic processes on the sedimentary record. GSA Annual Meeting. Baltimore, Maryland: Geological Society of America Annual Meeting.
  28. Georgiou, I. Y. (2016, Spring - Invited). Barrier Island Dynamic Processes on Deltaic Coasts. Universidade Federal de Santa Catarina, Centro de Filosofia e Ciências Humanas. Florianopolis, Brazil: Departamento de Geociências Laboratório de Oceanografia Costeira.

29. Hein, C. C., FitzGerald, D. M., Georgiou, I. Y., & Hein, E. A. (2014, Fall - Invited). Coupled Barrier-Backbarrier Dynamics and the Formation and Stability of Barrier-Island Systems. GSA Annual Meeting. GSA Annual Meeting 2015 Vancouver: GSA.
30. Hird, J., Twilley, R., Sheldon, J., Carney, J., Georgiou, I. Y., & Agre, C. (2016, February). Changing Course - The Moffatt & Nichol Team Solution- A "Systems Approach" to a consolidated and sustainable Lower Mississippi River Delta. AGU Ocean Science 2016. New Orleans: American Geophysical Union. <https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/89094>
31. Maloney, J. M., Bentley, S. J., Xu, K., Georgiou, I. Y., Miner, M. D. (2016, February). Impacts of Declining Mississippi River Sediment Load on Subaqueous Delta Front Sedimentation and Geomorphology. AGU Ocean Science 2016. New Orleans: American Geophysical Union. <https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/90701>
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33. FitzGerald, D. M., Georgiou, I. Y., & Kulp, M. A. (2016, Spring). Restoration of the Chandeleur Barrier Arc, Louisiana. International Coastal Conference 2016. Sydney Australia: Coastal Education and Research Foundation.
34. Keller, G., Bentley, S. J., Xu, K., Georgiou, I. Y., Maloney, J. M., Obelcz, J., & Miner, M. D. (2016, February). Geochronology of Mudflow Deposits on the Mississippi River Delta Front, Louisiana, USA. AGU Ocean Sciences 2016. New Orleans: American Geophysical Union. <https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/91536>
35. Yocum, T.\*, & Georgiou, I. Y. (2016, February). Growth laws for delta crevasses in the Mississippi River Delta: observations and modeling. AGU Ocean Sciences 2016. New Orleans: AGU. <https://agu.confex.com/agu/os16/meetingapp.cgi/Paper/93144>
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37. Hanegan, K\*, Georgiou, I.Y., FitzGerald, D.M., 2016, Modeling interactions between backbarrier marshes, inlets, ebb-deltas, and adjacent barriers exposed to rising sea levels (in review), AGU Ocean Sciences 2016 conference, New Orleans, LA, February
38. Hanegan, K\*, Georgiou, I.Y., FitzGerald, D.M., 2015, Modeling interactions between backbarrier marshes, inlets, ebb-deltas, and adjacent barriers exposed to rising sea levels, ASBPA 2015 conference, New Orleans, LA
39. Hanegan, K\*, Georgiou, I.Y., FitzGerald, D.M., Modeling interactions between backbarrier marshes, inlets, ebb-deltas, and adjacent barriers exposed to rising sea levels, CERF 2015 conference, Portland, OR
40. Souza, P. C. M.\*, Georgiou, I. Y., Hughes, Z. J., Howes, N., Gani, M. R., & Fitzgerald, D. M. (2015, November). Architecture and evolution of tidal point bars: influence of the hydrodynamic processes on the sedimentary record. , CERF 2015 conference, Portland, OR
41. Hein, C.J., FitzGerald, D.M., Georgiou, I.Y., Hein, E.A., 2014, INVITED, Coupled Barrier-Backbarrier Dynamics and the Formation and Stability of Barrier-Island Systems, GSA Abs. with Programs, vol. 46, no. 6, abs. 249075.
42. Yocum, T.\*, Georgiou, I.Y., 2014, Do Constructed crevasses obey delta laws? Implications for the restoration of the Mississippi River delta, Poster presentation at UL Summit, Lafayette, April 2014.
43. Henley, J. V.\*, Georgiou, I. Y., 2014, The Occurrence of Stratification Induced Hypoxia near the Chandeleur Islands, LA: An Insight into Physical Controls, Poster Presentation at Innovate UNO, Feb. 2014, New Orleans, LA
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46. Hanegan, K. C.\*, I. Y. Georgiou, 2014, Flow and Sediment Flux through Wax Lake Delta Distributary Channels: Implications for Delta Development, Presentation at State of the Coast 2014, New Orleans, March, 2014
47. Hanegan, K. C.\*, I. Y. Georgiou, 2014, Flow and Sediment Flux through Wax Lake Delta Distributary Channels: Implications for Delta Development Community Surface Dynamics Modeling System Meeting, Boulder, CO, May 2014
48. Henley, J. V.\*, Georgiou, I. Y., 2014, The Occurrence of Stratification Induced Hypoxia near the Chandeleur Islands, LA: An Insight into Physical Controls, Poster Presentation at the State of the Coast Conference 2014, March, 2014, New Orleans, LA
49. Georgiou, I. Y. , K. C. Hanegan\*, Yocum, T., 2014, "Hydrodynamics and Salinity Modeling in the Lowermost Mississippi River and Delta", Presentation at State of the Coast 2014, New Orleans, March, 2014
50. Georgiou, I.Y., K. C. Hanegan, 2014, Hydrodynamics and Salinity Modeling in the Lowermost Mississippi River and Delta, Presentation to the Technical Session of the Mississippi River Hydrodynamic and Delta Management, Louisiana Coastal Area, New Orleans, October, 2013.
51. Kirkland, B., Georgiou, I.Y., and Kulp, M., 2013. Geomorphic Evolution of a Rapidly Deteriorating Barrier Island System with Multiple Sediment Sources: Eastern Isles Dernieres, Louisiana, 1887 to 2006. GCAGS Transactions, p. 299-306.
52. Howes, N. C., Georgiou, I. Y., Hughes, Z. J., & FitzGerald, D. M., 2013. On the Interaction of Wetland Loss, Tidal Range, and Tidal Prism: A Case Study in the Mississippi River Delta Plain, Barataria Bay. GCAGS Transactions, p. 257-260.
53. Howes, N.C., Georgiou, I.Y., Hughes, Z.J., & Wolinsky, M.A., 2013, A Conceptual Framework and Classification for the Fluvial-Backwater-Marine Transition in Coastal Rivers. International Conference of Fluvial Sedimentology, July 14-19, Leeds, United Kingdom.
54. Clark, R., Georgiou, I.Y., & FitzGerald, D.M., 2013. An Evolutionary Model of a Retrograding Subdeltaic Distributary of a River-dominated System. GCAGS Transactions, p. 527-530
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