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Abstract Details

<u>AOGS 1st Annual Meeting</u> > <u>Ocean and Atmospheres</u> > Chemical biomarkers as indicators matter preservation in coastal margins >

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Title: Chemical biomarkers as indicators of organic matter preservation in

margins

Abstract:

River-dominated margins are dynamic regions that receive inputs of carbon derived from both terrestrial and marine sources. In these environments, the input of vascular plant-derived organic matter from significant, and marine primary productivity is high due to high nutrie inputs associated with riverine discharge. Major rivers (and associate deltaic environments) provide the dominant pathway for the input of terrestrial organic carbon to marine sediments and play a disproportic important role in transporting terrestrial materials to the ocean. Approximately 40% of the fresh water and particulate materials enter ocean are transported by the ten largest rivers, which includes the Mississippi. Rivers act as natural integrators of surficial processes, inc human activities, within their drainage basins. Approximately 60% of total suspended matter and 66% of the total dissolved solids transpo from the conterminous U.S. to the ocean is carried by the Mississippi, largest river in North America. It has been estimated that 80% of the organic carbon preserved in marine sediments occurs in

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