

Louisiana Coastal Restoration & the Louisiana Coastal Area (LCA) Projects

NCER 2011

**Mr. Mark Wingate
Session Moderator**

August 3, 2011



**US Army Corps of Engineers
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U.S. Department of the Interior
U.S. Geological Survey

Land Area Change in Coastal Louisiana (1932 to 2010)

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Introduction

The U.S. Geological Survey (USGS) published this report to provide information on land area change in coastal Louisiana from 1932 to 2010. This report is the first in a series of reports that will provide information on land area change in coastal Louisiana from 1932 to 2010. The report is the first in a series of reports that will provide information on land area change in coastal Louisiana from 1932 to 2010.

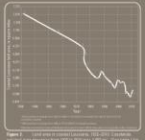
Methodology

This report uses data from the National Wetlands Inventory (NWI) and the National Wetlands Inventory (NWI) to determine land area change in coastal Louisiana from 1932 to 2010. The NWI is a national inventory of wetlands, and the NWI is a national inventory of wetlands. The NWI is a national inventory of wetlands, and the NWI is a national inventory of wetlands.



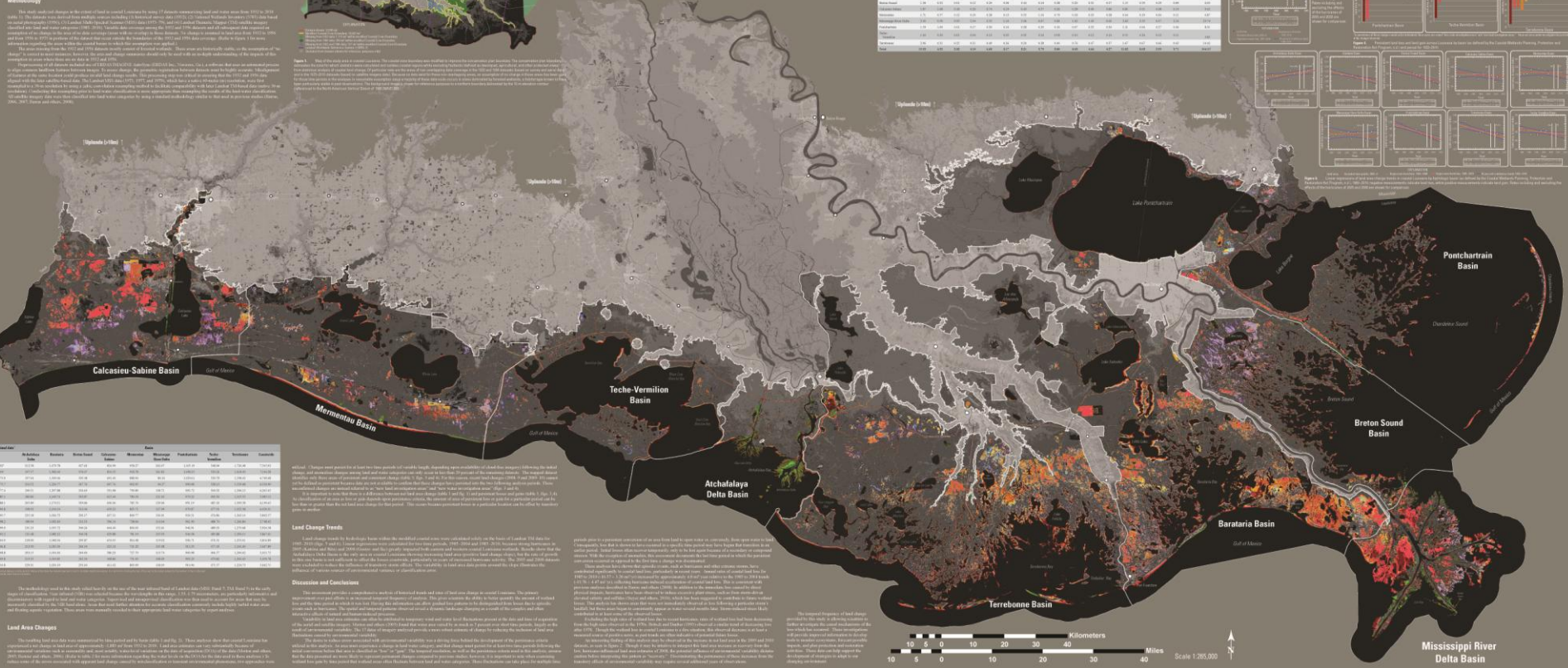
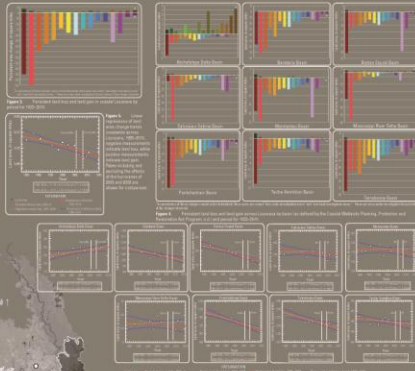
Figure 1 Map of Louisiana showing the study area and the location of the study area within the state.

Scientific Investigations Map 3184
Pamphlet accompanies map



Year	Wetlands	Upland	Total
1932	1,000,000	1,000,000	2,000,000
1940	950,000	950,000	1,900,000
1950	850,000	850,000	1,700,000
1960	750,000	750,000	1,500,000
1970	650,000	650,000	1,300,000
1980	550,000	550,000	1,100,000
1990	450,000	450,000	900,000
2000	350,000	350,000	700,000
2010	250,000	250,000	500,000

Basin	1932	1940	1950	1960	1970	1980	1990	2000	2010	Total Change
Calcasieu-Sabine Basin	1,200,000	1,150,000	1,100,000	1,050,000	1,000,000	950,000	900,000	850,000	800,000	-400,000
Mormontou Basin	1,000,000	950,000	900,000	850,000	800,000	750,000	700,000	650,000	600,000	-400,000
Toche-Vermilion Basin	800,000	750,000	700,000	650,000	600,000	550,000	500,000	450,000	400,000	-400,000
Atchafalaya Delta Basin	600,000	550,000	500,000	450,000	400,000	350,000	300,000	250,000	200,000	-400,000
Terrebonne Basin	400,000	350,000	300,000	250,000	200,000	150,000	100,000	50,000	0	-400,000
Barataria Basin	200,000	150,000	100,000	50,000	0	-50,000	-100,000	-150,000	-200,000	-400,000
Breton Sound Basin	100,000	50,000	0	-50,000	-100,000	-150,000	-200,000	-250,000	-300,000	-400,000
Pontchartrain Basin	50,000	0	-50,000	-100,000	-150,000	-200,000	-250,000	-300,000	-350,000	-400,000



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Mormontou Basin	1,000,000	950,000	900,000	850,000	800,000	750,000	700,000	650,000	600,000
Toche-Vermilion Basin	800,000	750,000	700,000	650,000	600,000	550,000	500,000	450,000	400,000
Atchafalaya Delta Basin	600,000	550,000	500,000	450,000	400,000	350,000	300,000	250,000	200,000
Terrebonne Basin	400,000	350,000	300,000	250,000	200,000	150,000	100,000	50,000	0
Barataria Basin	200,000	150,000	100,000	50,000	0	-50,000	-100,000	-150,000	-200,000
Breton Sound Basin	100,000	50,000	0	-50,000	-100,000	-150,000	-200,000	-250,000	-300,000
Pontchartrain Basin	50,000	0	-50,000	-100,000	-150,000	-200,000	-250,000	-300,000	-350,000

Land Change Trends

This report shows that land area change in coastal Louisiana from 1932 to 2010 is a result of a combination of natural and human-induced factors. The report shows that land area change in coastal Louisiana from 1932 to 2010 is a result of a combination of natural and human-induced factors.

Discussion and Conclusions

This report shows that land area change in coastal Louisiana from 1932 to 2010 is a result of a combination of natural and human-induced factors. The report shows that land area change in coastal Louisiana from 1932 to 2010 is a result of a combination of natural and human-induced factors.

Land Area Change

This report shows that land area change in coastal Louisiana from 1932 to 2010 is a result of a combination of natural and human-induced factors. The report shows that land area change in coastal Louisiana from 1932 to 2010 is a result of a combination of natural and human-induced factors.



Major Causes Of Wetland Loss

Barrier
Island
Degradation



Subsidence



Storms



Sea Level
Rise



Salt Water
Intrusion



Sediment
Reduction



Canals



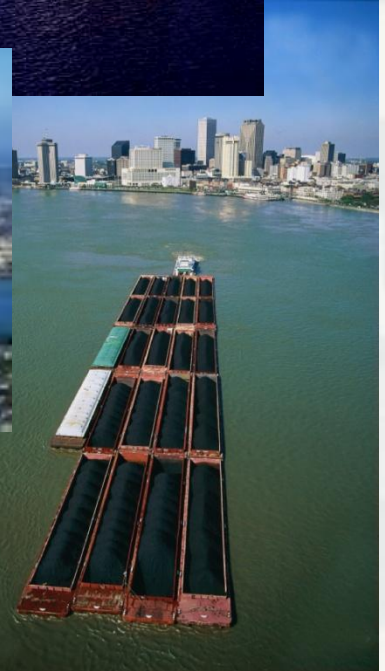
Oil & Gas
Development



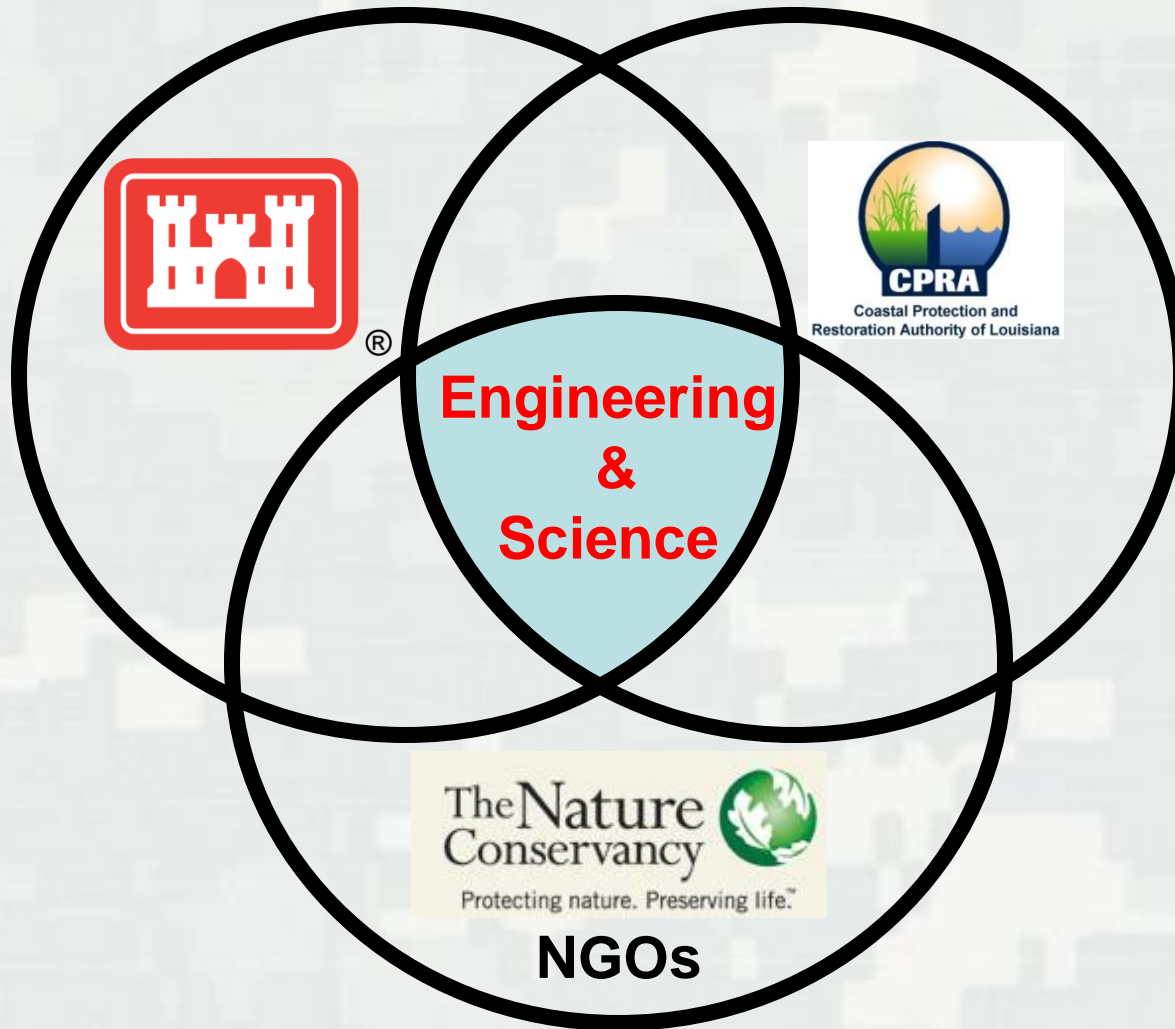
Levee
System



Coastal Louisiana's Importance to the Nation



Components of Today's Session



Presentations and Presenters

Coastal Restoration and LCA Overview, US Army Corps of Engineers
Darrel Broussard, Senior Project Manager, USACE

State of Louisiana's Perspective of Louisiana Coastal Restoration
Bren Haase, Senior Project Manager, LaOCPR

NGO's Perspective of Louisiana Coastal Restoration
Karen Gautreaux, Director of Government Relations,
The Nature Conservancy of Louisiana

Promoting Science-Based Decisions in Coastal Restoration
Barbra Kleiss, LCA S&T Director, USACE

