

USGS CMG OVERVIEW LOG
ACTIVITY ID: 10CCT03

TOPIC	INFORMATION
USGS ACTIVITY ID	10CCT03
OTHER ID (IF ANY)	
ORGANIZATION	U.S. Geological Survey, St. Petersburg Coastal and Marine Science Center and U.S. Army Corps of Engineers (USACE).
PROJECT	Mississippi Coastal Improvements Program (MsCIP)/Coastal Change and Transport
AREAS OF OPERATION	East Ship Island, MS, to Dauphin Island, AL (Northern Gulf of Mexico).
CHIEF SCIENTIST(S)	James G. Flocks
INFORMATION SPECIALIST(S)	Dana S. Wiese, Nancy T. DeWitt, and Arnell Forde
ACTIVITY TYPE	Seafloor mapping/shallow sub-bottom profiling via geophysical surveys (high-resolution seismic, multibeam bathymetry, and side scan sonar backscatter).
SCIENTIFIC PUPRPOSE/GOALS	To create a complete modern topo-bathymetric map of the Mississippi barrier islands from Cat Island, MS, to Dauphin Island, AL. Data to provide information for the following: sediment budget, assessment of immediate sand resources in the region, modern geologic framework, historical island change measurements, and base-level assessment of the seafloor since the 2005 hurricane season.
PLATFORM	<i>R/V Irvington</i> (USACE)
STARTING DATE	April 14, 2010
STARTING PORT	Mobile, Alabama
ENDING DATE	April 30, 2010
ENDING PORT	Mobile, Alabama
EQUIPMENT USED	Edgetech SB-512i sub-bottom profiler running DISCOVER version 3.51 acquisition software and L3900 Klein side scan towfish (USGS); RESON, Inc. SeaBat 8125 multibeam echosounder and Applanix POS MV DGPS/IMU navigation system (USACE).
INFORMATION TO BE DERIVED (GRAIN SIZE, DEPTH TO BASEMENT)	Shallow geologic framework - Shallow sub-bottom image profiles, multibeam bathymetry data (X, Y, Z), and side scan sonar mosaics.
SUMMARY OF ACTIVITY AND DATA GATHERED	A total of 44 chirp 2-D sub-bottom profiles, 31 multibeam, and 46 side scan lines were collected.
NOTES	Digital 10CCT03 logs were generated by A. Forde in September 2010 using the handwritten logs and personal accounts of the crew members.