

**USGS CMG OVERVIEW LOG
ACTIVITY ID: 10CCT01**

TOPIC	INFORMATION
USGS ACTIVITY ID	10CCT01
OTHER ID (IF ANY)	
ORGANIZATION	U.S. Geological Survey, St. Petersburg Coastal and Marine Science Center
PROJECT	Mississippi Coastal Improvements Program (MsCIP)/Coastal Change and Transport
AREAS OF OPERATION	Cat Island, Mississippi
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, bathymetry, and swath).
SCIENTIFIC PURPOSE/GOALS	Survey offshore of Cat Island to obtain data that will be incorporated into a complete, modern topo-bathymetric map of the Mississippi barrier islands from Cat Island, Mississippi, to Dauphin Island, Alabama. Data to provide information for the following: 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	R/V <i>Survey Cat</i>
STARTING DATE	March 09, 2010
STARTING PORT	Biloxi, Mississippi
ENDING DATE	March 17, 2010
ENDING PORT	Biloxi, Mississippi
EQUIPMENT USED	Edgetech SB-424 sub-bottom profiler running DISCOVER version 3.51 acquisition software, CodaOctopus F190 DGPS/IMU navigation system, Hypack software (ship navigation), Systems Engineering and Assessment (SEA) SWATH ^{plus} -H 468 kHz interferometric system, and L3900 Klein side scan towfish.
INFORMATION TO BE DERIVED (GRAIN SIZE, DEPTH TO BASEMENT)	Shallow geologic framework - Shallow sub-bottom image profiles, Submetrix swath bathymetry data (X, Y, Z), and side scan sonar mosaics.
SUMMARY OF ACTIVITY AND DATA GATHERED	A total of 39 chirp 2-D sub-bottom profiles, 37 swath, and 39 side scan lines were collected.
NOTES	Digital 10CCT01 logs were generated by A. Forde in September 2010 using the handwritten logs and personal accounts of the crew members.