

USGS CMSC FACS OVERVIEW LOG
ACTIVITY ID: 10CCT03

TOPIC	INFORMATION
USGS ACTIVITY ID	10CCT03
OTHER ID (IF ANY)	
ORGANIZATION(S)/PROGRAM	U.S. Geological Survey (USGS), St. Petersburg Coastal and Marine Science Center and U.S. Army Corps of Engineers (USACE), Mobile, Ala.
PROJECT/THEME	Mississippi Coastal Improvement Project (MsCIP) / Coastal Change and Transport
AREA OF OPERATION	Horn Island, Miss., to Dauphin Island, Ala. (Northern Gulf of Mexico)
PRINCIPAL INVESTIGATOR	James G. Flocks
INFORMATION SPECIALIST(S)	Dana S. Wiese, Arnell S. Forde, and Nancy T. DeWitt
ACTIVITY TYPE	Seafloor mapping, geophysical multibeam bathymetry, shallow sub-bottom profile, side scan sonar backscatter
SCIENTIFIC PURPOSE/GOALS	Surveying an area offshore of the Gulf Islands National Seashore from East Ship Island, Miss., to Dauphin Island, Ala., that will be incorporated into the complete modern topobathymetric map of the Mississippi barrier islands from Cat Island, Miss., to Dauphin Island, Ala. Data to provide information for the following: assessment of sand resources in the region, recent geologic framework, historical island shoreline measurements, and base level characterization of the seafloor since the 2005 hurricane season.
PLATFORM	USACE <i>RV Irvington</i>
STARTING DATE	April 14, 2010
STARTING PORT	Mobile, Alabama
ENDING DATE	April 30, 2010
ENDING PORT	Mobile, Alabama
EQUIPMENT USED	Edgetech SB 512i Chirp sub-bottom profiler, L3900 Klein Side Scan Towfish (USGS); RESON SeaBat 8125 multibeam, and Applanix POS MV (USACE) for DGPS and motion sensor; Odom Digibar Pro Velocimeter.
INFORMATION TO BE DERIVED	Multibeam bathymetry data (x,y,z), shallow sub-bottom image profiles, side scan sonar mosaics
SUMMARY OF ACTIVITY AND	Multibeam (31); Chirp lines (44); and side scan

DATA GATHERED	lines (46)
NOTES	<p>Boat Staff – James G. Flocks (P.I.-USGS), Dana S. Wiese (E.T.-USGS), Howie Langham (Surveyor - USACE), Fred Roberts (Captain-USACE), Reid Boa (Captain-USACE).</p> <p>Digital 10CCT03 FACS logs were generated by N. DeWitt in October of 2010 using the handwritten logbook and personal accounts of the crew members.</p>