

**USGS CMSC FACS OVERVIEW LOG**  
**ACTIVITY ID: 12BIM03**

TOPIC	INFORMATION
USGS ACTIVITY ID:	12BIM03
OTHER ID (IF ANY):	N/A
ORGANIZATION(S)/PROGRAM:	U.S. Geological Survey, St. Petersburg Coastal and Marine Science Center
PROJECT/THEME:	Barrier Island Mapping
AREA OF OPERATION:	Chandeleur Islands, La.
PRINCIPAL INVESTIGATOR(S):	Jennifer L. Miselis
INFORMATION SPECIALIST(S):	Julie Bernier, William R. Pfeiffer, Dana S. Weise, Nancy T. DeWitt
ACTIVITY TYPE:	Geophysical survey, (seafloor mapping/shallow sub-bottom profiling) of the E4 Chandeleur Islands and berm.
SCIENTIFIC PURPOSE/GOALS:	To investigate the geologic controls on barrier island framework and long-term sediment transport offshore of the Chandeleur Islands.
PLATFORM:	R/V <i>Survey Cat</i> , M/V <i>Southern VI</i>
STARTING DATE:	7/23/2012
STARTING PORT:	Point Cadet Marina – Biloxi, MS
ENDING DATE:	7/31/2012
ENDING PORT:	Point Cadet Marina – Biloxi, MS
EQUIPMENT USED:	EdgeTech 424 chirp sub-bottom profiler running DISCOVER version 3.51 acquisition software, SEA SWATHplus -H 468-kHz interferometric system, CodaOctopus Octopus F190 Precision Attitude and Positioning System DGPS/IMU, and laptop computers for acquisition and on-boat processing.
INFORMATION TO BE DERIVED:	Shallow geologic framework – sub-bottom image profiles, x,y,z elevation data, bathymetric grids, bathymetric change maps, bathymetric change models
SUMMARY OF ACTIVITY AND DATA GATHERED:	A total of 105 2-D chirp sub-bottom profiles and 144 interferometric swath bathymetry (144 lines) lines were collected.
NOTES:	FACS logs generated by A. Forde from handwritten logs and field notes.