

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

<b>TOPIC</b>	<b>INFORMATION</b>
USGS ACTIVITY ID:	12BIM03
OTHER ID (IF ANY):	N/A
ORGANIZATION(S)/PROGRAM:	USGS SPCMSC
PROJECT/THEME:	Barrier Island Mapping
AREA OF OPERATION:	Chandeleur Islands, LA
PRINCIPAL INVESTIGATOR(S):	Jennifer Miselis
INFORMATION SPECIALIST(S):	Julie Bernier, William R. Pfeiffer, Dana S. Weise, Nancy T. DeWitt
ACTIVITY TYPE:	Geophysical survey of the E4 Chandeleur Islands berm
SCIENTIFIC PURPOSE/GOALS:	Barrier island monitoring
PLATFORM:	RV <i>Survey Cat</i> , MV <i>Southern VI</i>
STARTING DATE:	7/20/2012
STARTING PORT:	Point Cadet Marina – Biloxi, MS
ENDING DATE:	8/3/2012
ENDING PORT:	Point Cadet Marina – Biloxi, MS
EQUIPMENT USED:	4 Ashtech Z-Extreme DGPS receivers, 5 Ashtech and Thales choke ring antennae, 1 Ashtech geodetic antenna, 2 Magellan ProFlex 500 DGPS receivers, 3 Seco tripods, SEA SWATHplus -H 468-kHz interferometric system, Valeport sound velocity profiling unit, Valeport mini sound velocity probe, Klein L3900 side scan sonar towfish, CodaOctopus Octopus F190 Precision Attitude and Positioning System DGPS/IMU, EdgeTech 424 chirp sub-bottom profiler, laptop computers for acquisition and on-boat processing.
INFORMATION TO BE DERIVED:	x,y,z elevation data, bathymetric grids, bathymetric change maps, bathymetric change models
SUMMARY OF ACTIVITY AND DATA GATHERED:	Interferometric swath bathymetry (144 lines), interferometric backscatter (144 lines), side scan sonar imagery (22 lines), and chirp sub-bottom profiles(104 lines), sound velocity profile casts (18)
STAFF:	Jennifer Miselis, Julie Bernier, Nancy T. DeWitt, Dana S. Weise (USGS SPCMSC), and Will R. Pfeiffer (Cherokee Nation Technology Solutions)
NOTES:	FACS logs generated by J. Bernier and N. DeWitt from handwritten logs and field notes.