

USGS CMSC FACS OVERVIEW LOG
ACTIVITY ID: 12BIM04

TOPIC	INFORMATION
USGS ACTIVITY ID:	12BIM04
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, Will Pfeiffer, Nancy DeWitt
ACTIVITY TYPE:	Geophysical survey of the E4 Chandeleur Islands berm
SCIENTIFIC PURPOSE/GOALS:	Barrier island monitoring
PLATFORM:	RV <i>Twin Vee</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 GPS receivers, 5 Ashtech and Thales choke ring antennae, 1 Ashtech geodetic antenna, 2 Magellan ProFlex 500 GPS receivers, 3 Seco tripods, Valeport sound velocity profiling unit, laptop computers for acquisition and on-boat processing, TSS DMS-05 motion sensor, single-beam acoustic sounder, Knudsen 320BP used as the fathometer unit to acquire single-beam bathymetry from the high frequency channel, and shallow sub-surface profiles from the lower frequency
INFORMATION TO BE DERIVED:	x,y,z elevation data, bathymetric grids, bathymetric change maps
SUMMARY OF ACTIVITY AND DATA GATHERED:	Single-beam bathymetry (242 lines), shallow sub-bottom profiles (242 lines), sound velocity profile casts (19)
STAFF:	Jennifer Miselis, Julie Bernier, Kyle Kelso, B.J. Reynolds, (USGS SPCMSC), and Will Pfeiffer (Cherokee Nation Technology Solutions)
NOTES:	FACS logs generated by J. Bernier and N. DeWitt from handwritten logs and field notes.