

**USGS CMSC FACS OVERVIEW LOG
ACTIVITY ID: 13BIM07**

TOPIC	INFORMATION
USGS ACTIVITY ID:	13BIM07
OTHER ID (IF ANY):	BIER - Geophysics
ORGANIZATION(S)/PROGRAM:	USGS SPCMSC
PROJECT/THEME:	Barrier Island Mapping
AREA OF OPERATION:	Northern Chandeleur Islands, LA
PRINCIPAL INVESTIGATOR(S):	Jennifer Miselis
INFORMATION SPECIALIST(S):	Julie Bernier, William Pfeiffer, Dana Weise
ACTIVITY TYPE:	Geophysical mapping of the northern Chandeleur Islands
SCIENTIFIC PURPOSE/GOALS:	Collect swath bathymetry and backscatter data in the nearshore and around Hewes Point and collect sub-bottom data around Hewes Point – to measure seafloor changes and estimate sediment transport volumes
PLATFORM:	R/V <i>Sallenger</i>
STARTING DATE:	8/22/2013
STARTING PORT:	Point Cadet Marina – Biloxi, MS
ENDING DATE:	9/1/2013
ENDING PORT:	Point Cadet Marina – Biloxi, MS
EQUIPMENT USED:	SEA SWATH ^{plus} -H 468-kHz interferometric system, Valeport sound velocity profiling unit, Valeport mini sound velocity probe, CodaOctopus Octopus F190 Precision Attitude and Positioning System DGPS/IMU, EdgeTech 424 chirp sub-bottom profiler, laptop computers for acquisition and on-boat processing, Ashtech Z-Extreme and Magellan Proflex 500 DGPS receivers, Ashtech and Thales choke ring antennae, Magellan GNSS antennae, SECO collapsible tripods.
INFORMATION TO BE DERIVED:	Swath bathymetry, sub-bottom, and back-scatter data
SUMMARY OF ACTIVITY AND DATA GATHERED:	Interferometric swath bathymetry (46 lines), interferometric backscatter (46 lines), chirp subbottom profiles (3 lines), sound velocity profile casts (26)
STAFF:	Jennifer Miselis, Dana Weise, and B.J. Reynolds
NOTES:	FACS logs generated by J. Bernier and from handwritten and digital field logs and notes.