

## Overview Field Activity Collections System (FACS) Log

Topic	Information
USGS Activity ID	2016-316-FA
Other ID (if any)	XSTORMS.h20160218
Organization(s)/Program	U.S. Geological Survey, St. Petersburg Coastal and Marine Science Center
Project/Theme	Extreme Storm Coastal Change Hazards
Area of Operation	Part A: South Carolina/North Carolina border to Assateague Island, Virginia. Part B: Assateague Island, Virginia, to Montauk, Point, New York
Principal Investigator(s)	K.L.M. Morgan of the USGS in St. Petersburg, Florida.
Information Specialist(s)	None
Activity Type	Oblique Aerial Photographic Survey
Scientific Purpose/Goals	Winter survey to document the storm impact on the coast.
Platform	Cessna 182 aircraft, N8479S
Starting Date	February 17, 2016
Starting Port/Location	Yorktown, Virginia.
Ending Date	February 19, 2016
Ending Port/Location	Yorktown, Virginia.
Equipment Used	Nikon D810 digital camera, Garmin GPSMAP 696 receiver
Information to be Derived (e.g., Grain Size, Depth to Basement)	Baseline and winter coastal oblique photographs
Summary of Activity and Data Gathered	5480 oblique photographs
Notes (include staff, shop time etc)	<p>February 17, 2016 – Flight day 0: Newport News, Virginia, to Myrtle Beach, South Carolina. Stage to begin survey on Feb 18. No photographs collected.</p> <p>February 18, 2016 - Flight day 1: Excellent aerial photography weather at start point Myrtle Beach, South Carolina. Ceiling and visibility were unlimited. Moderate to heavy turbulence at times with high gusting winds in excess of 30 knots from the northeast tended to push us onshore. Crab angle can be noticed in some images easterly heading such as the Capes. Collected 3318 images; 67.07 GB of data.</p> <p>February 19, 2016 - Flight day 2: Excellent aerial photography weather from Manteo, North Carolina to Chincoteague Island, Virginia. Ceiling and visibility unlimited until Cape Charles, Virginia, where high thin overcast took over for remainder of trip. Collected 2162 images; 46.48 GB of data.</p> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Nikon D810 DSLR Camera</li> <li>• ISO: 100 for parallel to coast, Auto sensitivity control during profiles</li> <li>• Interval timer shooting: one picture every 3 seconds.</li> <li>• Nikkor 35 millimeter, 1.8 lens - standard lens for coastline images</li> <li>• Focus: Infinity. Replicates 50-millimeter lens on our crop sensor DSLR camera body.</li> </ul>