

Overview Field Activity Collections System (FACS) Log

Topic	Information
USGS Activity ID i.e. YYPRJ## *	09ACH01
Other ID (if any)	XSTORMS.h20090519
Organization(s)/Program	U.S. Geological Survey, St. Petersburg Coastal and Marine Science Center
Project/Theme	Extreme Storm Coastal Change Hazards
Area of Operation	Owls Head, Maine, to Virginia/North Carolina Border.
Principal Investigator(s)	Karen L.M. Morgan, Cheryl Hapke (USGS St. Petersburg, Fla.), Emily Himmelstoss (USGS in Woods Hole, Mass.), and Phillip E. "Brud" Folger of Penobscot Island Air.
Information Specialist(s)	None
Activity Type	Oblique Aerial Photo and Video Survey
Scientific Purpose/Goals	Baseline survey to document the configuration on the coast.
Platform	Cessna 206A Stationaire, N70437
Starting Date	May 19, 2009
Starting Port/Location	Owl Head, Me.
Ending Date	May 22, 2009
Ending Port/Location	Falmouth, Mass.
Equipment Used	Nikon D1X (Morgan, "d"), Canon EOS 20D (Hapke "d2"), Pentax K100D (Himmelstoss, "d3"), Panasonic Toughbook C51, batteries, Garmin GPS 18PC
Information to be Derived (e.g., Grain Size, Depth to Basement)	Analysis of coastal change due to extreme storms
Summary of Activity and Data Gathered	12,726 oblique images, GPS flight track
Notes (include staff, shop time etc.)	<p>Karen L.M. Morgan – Nikon D1X (signified "d") Cheryl Hapke – Canon EOS 20D (signified "d2") Emily Himmelstoss – Pentax K100D (signified "d3")</p> <p>May 19: Left Owls Head, Maine, at 9:40 EDT. Began taking pictures near Cape Elizabeth, Maine. Landed for lunch in Beverly, Massachusetts. GPS failed in all systems at about Duxbury, Massachusetts, but we continued to about Fort Standish, Massachusetts. Efforts to restart the GPS failed. 126 images were taken while there was no GPS. We used 9.5 compact flash cards for 2,461 pictures. We landed at Falmouth Air Park at 15:05 EDT and over-nighted in Falmouth, Massachusetts.</p> <p>May 20: Left Falmouth at 9:30 EDT. We returned to just north of Duxbury, Massachusetts to continue the survey where we had left off the day before. We stopped for lunch on Martha's Vineyard. There were no problems the second day. We surveyed to Wainscott, New York, using 12.5 cards and taking 4,080 pictures. We landed at East Hampton Airport at 15:45 EDT, and over-nighted in Sag Harbor, New York, on Long Island.</p> <p>May 21: Left East Hampton Airport at 9:00 EDT. We stopped for lunch at Ocean City, New Jersey. Fugawi crashed about 1/3 of the way down Assateague Island, Maryland, that afternoon. Restarted Fugawi (not Cleo), and continued flying. No other problems were encountered. We surveyed until 15:30 EDT, later then we would normally survey to complete the coastline to the point where we began surveying in May 2008. Light conditions were acceptable given the circumstances and that it was the last day of surveying. Shadows were present on the seaward side of buildings, but the shadows did not extend over the beach. We landed at Norfolk, Virginia at 15:45 EDT, and 5,906 pictures were taken.</p> <p>May 22: The plane, with Hapke and Himmelstoss returned to Falmouth, Massachusetts, and offloaded the equipment. It then continued onto Owls Head, Maine, and 279 pictures were taken.</p>

