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Cruise: YR121006, Stations: S5038-S5077, Clay Bank, York River Virginia 6-hour MUDBED Calibration Survey bracketing a Flood Tide

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Title:

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Location (place name):

York River, VA

Location (coordinates):

37° 07 23' N, 076° 09 12'W; 37° 13 33' N, 076° 18 28'W; 37° 39 12' N, 076° 54 00'W;
37° 34 54' N, 076° 59 24'W

UTC Date(s):

10/6/2012

Abstract:

Dataset consists of profile and water column burst data and bottom burst data collected as part of a 6-hour anchor station survey in support of an Acoustic Doppler Velicometer (ADV) tripod deployed in nearby location.

Description of Data:

During each station in the survey a profile or bottom time series was collected with a suite of instrumentation including: a RDI 1200 KHz ADCP, a YSI 6600 CTD, a Sequia LISST 100X, a Sontek ADVOcean and a PICS floc camera. The raw data of profile stations is processed to provide a smooth profile of data throughout the water column and a series of between 2 to 5 minute bursts from various heights in the water column. Bottom bursts are time series collected when the profiler was resting on the seafloor. The "logbook" is the hand written field notes and instrument setup documents. The "Consecutive Station Log" is an excel spreadsheet of the metadata associated with each station in the survey. Excel spreadsheet "Averaged Data" contains burst averaged data and statistics from the water column and bottom bursts. Raw and processed data from each instrument are zipped in a folder, or series of folders, identified by the type and serial number of the instrument. All times are Eastern Standard Time (EST).

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Publication Type:

Data

Related Material:

Cartwright, G.M., C.T. Friedrichs, and S.J. Smith, 2013. Sediment settling velocity from ADVs and settling tubes: agreement over a range of particle types and hydrodynamic conditions. *Geo-Marine Letters*, 33: 477-484. doi: 10.1007/s00367-013-0340-4

Subject Keywords:

Sediment transport; acoustic backscatter; conductivity temperature and depth sensor; CTD; Acoustic Doppler Current Profiler; ADCP; LISST; flocculation; settling velocity; suspended size distribution; York River; PICS; Particle Imaging Camera System