

1-21-2014

Cruise: YR110816, Stations: S4941- S4946, Clay Bank, York River Virginia 1.5-hour MUDBED Calibration Survey


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Recommended Citation

Cartwright, G.M., and Friedrichs, C.T., 2013. YR110816, Stations: S4941- S4946, Clay Bank, York River Virginia 1.5-hour MUDBED Calibration Survey Tide. Virginia Institute of Marine Science, College of William and Mary. <http://doi.org/10.21220/V5F59J>

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Title:

Cruise: YR0110816, Stations: S4941- S4946, Clay Bank, York River Virginia 1.5-hour MUDBED Calibration Survey

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

Start Date(s):

2009 November 25

Abstract:

Dataset consists of profile and water column burst data and bottom burst data collected as part of a 1.5-hour anchor station survey in support of an Acoustic Doppler Velicometer (ADV) tripod deployed in nearby location. The survey was aborted early due to rough weather

Description of Data:

During each station in the survey a profile or bottom time series was collected with a suite of instrumentation including: a YSI 6600 CTD, a Sequia LISST 100X, RDI 1200 kHz ADCP and a Sontek ADVOcean. The raw data of profile stations are 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. Total Suspended Solids (and fixed solids) were sampled from depth to calibrate the acoustic backscatter. The "logbook" is the hand written field notes and instrument setup documents. The "Profiler Set up" is a log of the location and serial number of the instruments mounted on the profiler. 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).

Funding sources:

NSF grants OCE-0536572 and OCE-1061781

Publication Type:

Data

Related Material:

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; Suspended Particulate Matter; Total Suspended Solids