

Advanced ADCP Applications

April 25-29, 2005 in Louisville, KY

Registration Deadline: March 18, 2005

Announcement

A training course on advanced applications of acoustic Doppler current profilers (ADCP's) has been prepared for those who need to use the ADCP for more than standard discharge measurements using bottom tracking. This class intends to focus primarily on the Rio Grande ADCP manufactured by RD Instruments (RDI); however, most of the concepts are applicable to other manufacturers. If advanced training is required on instruments other than RDI, please note that on your training registration.

Description

This 5-day class will combine lectures and "hand's-on" use of ADCP's and software for collecting and processing ADCP data. The course will require some pre-class work by each student. The pre-class work will consist of reading assignments and downloading and installation of several software programs prior to the class.

The emphasis of this course is on the practical aspects of using ADCP's for streamflow measurements. Some of the topics that will be covered during the course include (1) basic principles of ADCP operation, (2) configuration files, (3) ADCP expert commands, (4) high-resolution water modes, (5) use of GPS with ADCP's, (6) alternative techniques for measuring discharge in the presence of a moving bed, (7) trouble-shooting problems encountered in the field, (8) basic concepts for visualizing velocity data.

Attendees

The class is designed for personnel who have completed the Streamflow Measurements Using ADCP's class and have at least 6 months experience collecting and processing ADCP data. Attendance will be limited to approximately 16 students. For the Louisville, KY class priority will be given to USGS Districts with a current need for the techniques presented in this class. Requests from USGS cooperators to attend the class **MUST** be made through the local USGS District Office. If you are a cooperator who would like to attend please contact your local District Office and have them contact the course coordinator.

Requirements

In order to attend the class, attendees must complete pre-class activities, including reading assignments. In addition, prior to coming to the class, each attendee must load software used in the class and verify that it will work on the laptop they will be using during the class. Each attendee should bring field clothes, PFD, and a laptop computer for use in collecting ADCP data.

In addition, it is expected that each attendee will have basic PC computer skills. This includes knowledge of how to use Windows programs, manage data files, create directories, edit files with a text editor, and a working knowledge of Excel.

Those selected for the class should bring a laptop that has a processor speed of 200 MHz and 32 MB of RAM minimum. A faster machine with more memory will provide for a more rewarding class experience and significantly less time playing back data files. This laptop will be used to collect data in the field and process data in the office. If a choice must be made, bring a laptop for office processing, other laptops will be available for the field work.

Cost

The tuition for the class will be \$1000. The tuition is used to pay for instructor time and travel, preparation of training materials, equipment used in the class, etc. In order to be nominated for the class, USGS personnel are required to submit an account number that will be used to initiate an SV for those selected to attend the class.

Payment for non-USGS attendees must be made through the USGS National Training Center (NTC), who assesses an additional \$100 fee. A cancellation fee of 75% of the tuition will be assessed if a student cancels out of the class after being selected.

Accommodations in Louisville, KY

The class will be held in Louisville, KY at the Kentucky District office. A block of rooms has been reserved. Those accepted for the training class will be sent information on how to make a reservation.

Nominations (Or Request To Attend)

In order to nominate individuals for the class, please use the Web page available at:

http://simon.er.usgs.gov/cgi-bin/rgs/index.cgi?register=1&session_id=64&to=register

In order to view the current list of nominees, use the following url:

http://simon.er.usgs.gov/cgi-bin/rgs/index.cgi?register=1&session_id=64&to=view

The persons nominated may not show up in the above url immediately, but we will make sure that it is updated periodically. If you have problems accessing this page, or if you have questions pertaining to the class or accommodations, please email Kevin Oberg (kaoberg@usgs.gov) or David Mueller (dmueller@usgs.gov).

NOTE: Entering an individual in the Training Management System DOES NOT nominate them for this class. To be nominated for this class you MUST follow the instructions above. Likewise nominating someone for this class using the instructions above DOES NOT enter them into the Training Management System.

Deadline for Nominations is March 18, 2005.

Selections will be made by approximately March 25, 2005.