

The U.S. Army Corps of Engineers (USACE), New England District, will be collecting scientific data in Newburyport Harbor near the South Jetty to improve understanding of tidal circulation patterns and water velocities in the area. In addition to current measurements, USACE will conduct topographic and bathymetric surveys to document existing conditions.

This data collection effort supports ongoing evaluation of the jetty and will help inform potential future modifications. Once the data is processed, it will be used to update a coastal model to better assess tidal dynamics and evaluate design alternatives.

Acoustic Doppler Current Profilers

Two ADCPs will be deployed at designated locations in the harbor for approximately 30 days, starting in mid-August 2025. These instruments measure water velocity and tidal flow continuously.

Do Not Disturb: Each ADCP will be marked with a research buoy. Boaters, fishermen, and other harbor users are requested to stay clear of the devices to avoid damage or interference with data collection. Your cooperation in keeping the monitoring equipment safe is greatly appreciated.

Data Collection Risks: The success of the deployment depends on the ADCPs remaining undisturbed and free of sediment buildup (e.g., sand accumulation), which could limit their ability to record data accurately.

Monitoring & Follow-Up: The equipment will be monitored at the end of the deployment period. If necessary, USACE may redeploy the ADCPs for an additional 30 days to ensure sufficient data is collected.



Figure 1: Approximate Deployment Locations of ADCPs



Example ADCP
Photo provided by Woods Hole Group



Example ADCP Deployment
Photo provided by Woods Hole Group

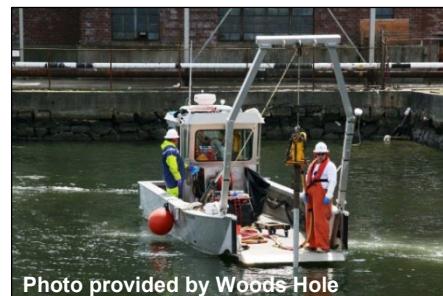


Photo provided by Woods Hole



Example Research Buoy