

Trip Objectives:/Accomplishments = (√) Not Done = (°)

- Service ADCP's (EL, BH, OK)
- Replace sediment traps at (EL, BH, OK)
- Replace Transponders (UAT's) at BH, OK and EL
- ✓ Visit Oak Island shore station house (Miramar)
- Take pictures of two Bald Head buoys and get their GPS coordinates

Summary:

Serviced OK and BH, but too rough to service EL. Couldn't find OK sediment pipe. Used one dive day. Different boat, a Parker with BH, OK and EL serviced. New sediment traps and pipes installed at all three locations. New pipes put sediment canister holes at the ADCP mid bin 1 elevation. BH and OK at 1.15M and EL at 1.70 meters off the bottom. Old ADCP pods recovered from EL and OK. New UAT's installed at all three locations. Real time OK gage restarted with 22 bins vice 32 to attempt to correct wave spectrum display.

Chronological Details (All times are East Coast DST)(Subtract 1 hour to get EST)

11MAY04

Left FRF for Wilmington Govt truck

Calibrated 3 ADCP compasses and setup 3 gages for deployment

Calculated elevations for new sediment traps, mounted sediment traps on new mounts and marked pipes for jetting.

12MAY04

07:00 met divers at Southport marina

08:00 left dock for EL

09:00 anchored at EL

Note: The red buoy that was here previously is no longer here.

09:21 diver in, visibility 25 feet, water temperature 72 degrees F.

09:44 ADCP recovered

09:47 new ADCP in water

Recovered sediment trap

Deployed new sediment pipe and new sed. trap

Started working on cutting pipes on old pod, but only got one done.

Will return tomorrow AM with hacksaw.

12:11 nearing OK

Found old OK pod

Pod is about 1 foot out of bottom, so began cutting pipes

Pipes cut, but needed to service OK ADCP with remaining time.

15:06 OK ADCP out of water

15:15 New OK ADCP in water

Note: Holes on ADCP cassette don't match all others. Hole spacing is about ½ inch shorter on OK than on all others. Transferred new ADCP to OK cassette and deployed.

15:40 ADCP in water for the second time.

Recovered sediment trap

Installed new sediment pipe and trap
Recovered UAT and deployed fresh one
Real time cable looks good
16:30 back at dock
Took 2 ADCP's to car wash. Dissembled and cleaned
Went to Lowes to get supplies and hacksaw
19:00 back at hotel
19:30 set up OK real time gage

13MAY04

06:30 met divers
07:00 left Southport dock
08:00 at **EL**
08:20 diver in
Old pod out legs cut off and left
10:35 at **BH**, Pinger not working
Pod found 4 foot from dropped marker buoy (Good GPS #'s)
10:45 ADCP in water, hanging over the side waiting for diver
Jetted in new sed. pipe with sed trap attached
Small line connected from pod to new sediment pipe
Took pictures of buoys. Offshore is the "A" buoy
Closer to shore is the 'TOPLESS' buoy
Took old EL pod to shore and loaded on trailer

12:17 at **OK**

Pulled old OK pod
Returned to dock and offloaded pod onto trailer
14:30 mission complete left divers
Went to car wash to clean BH instrument
Offloaded data from all 3 gages
Cleaned and serviced all 3 gages including new pressure port screws
Back at hotel checked OK real time gage, it's OK
Transferred pictures from camera to laptop
Wrote trip report

14MAY04

Returned to FRF
Offloaded truck and trailer
Suspense items:
Package sediment and send or not?
Clean and service 3 recovered UAT's
Clean and service two recovered pods (new pipe collars, antifoulant paint)
Service (prep. And paint) three recovered ADCP cassettes
Make another cassette for OK special shorter bolt pattern
Copy data files to DaCube and burn CD's



Bald Head 'A' buoy



Bald Head TOPLESS inner buoy



Recovered Bald Head ADCP, Destin still on transducer faces is a good antifoulant



Recovered old EL pod hoisted onto dive boat