



NOAA Teacher at Sea
Karolyn Braun
Onboard NOAA Ship KA'IMIMOANA
October 6 – 28, 2006

NOAA Teacher at Sea: Karolyn Braun
NOAA Ship KA'IMIMOANA
Mission: TAO Buoy Array Maintenance
Tuesday October 10, 2006

Science and Technology Log

Plan for the day

1:00 Deep CTD 8N/155W
7:30 Early Ops Retrieve and
Deploy TAO buoy
23:00 CTD 7N/155W

It has been a rainy, cloudy morning. The swells have been the largest I have seen since the cruise started, so we have been really lucky. It wasn't due to these waves that I couldn't sleep, but for fear I wouldn't wake up in time for the 1 a.m. CTD cast. When preparing the CTD frame and cylinders, I placed a mesh bag with about 25 styrofoam cups in it. I wrote my students' names on them and will present them when I make my presentation to my students and colleagues at the American Samoa Community College about my trip. We were able to go down only to 3000m, as we needed to make up for lost time with the last CTD cast. But it still made a BIG difference to the Styrofoam cups. We finished up with the cast around 5 a.m. and took a small nap as the first buoy retrieval and deployment was at 7:30.



TAS Braun displays what the pressure of water will do to Styrofoam cups!

The deck crew and scientists work as a team to recover the TAO buoy and place it on deck. After the buoy is secure, the two-mile of line is spooled in which takes a LONG time. The rain has finally developed into a light drizzle. This allowed me to go on deck and take a few photos. My mission was to watch and learn from this recovery and deployment so that for the next one I can help where needed. The new TAO buoy was deployed into the ocean and the two-mile line and anchor followed. This whole process took up the morning and most of the afternoon. I ended up helping out with the

spooling lines preparation for the deployment. I am not one to sit around and watch.
Next up, a CTD cast tonight. YIPEE!