

Journal #1

01/09/05

" Your ship called Fortune
Is ready to sail;
The globe lies wide open before you,
Who never dares, should never dare to hope."

Freidrich Von Shiller,1798

We just left Papeete, French Polynesia at about 3:00pm. We have been fueling all morning.

We will be traveling for about 8 hours to the first station and should arrive at about 11:00pm to do a test CTD cast. CTD stands for : Conductivity, Temperature and Depth.

We left Papeete, Tahiti on January 9,2005 and will sail into Wellington, NZ on February 20,2005. We will be doing CTD casts every 30 miles as far south as we can go, or about 70'S. We will try to go south until we start to see ice.

We have 32 in the science party on board and 22 crew members. The chief scientist is Dr. Bernadette Sloyan from Woods Hole Oceanographic Institution and the co-chief scientist is Dr. Jim Swift from Scripps Institution of Oceanography. I will be introducing you to the entire science party and crew members in future journals.

Please go to the Revelle page on the website and click on "ships current location" to see the longitude and latitude for us right now as well as a map of our cruise. These are updated daily. I will be pasting a copy of the "Master's report" in my journals, but you need to look at the map daily and keep a record of it on your own journals.

For your journals please go to the CLIVAR website which is a link from the cruise website or "google" CLIVAR . Your first journal question is : What is the CLIVAR project and what do the scientists hope to learn from this data?

Locate our Longitude and Latitude on a map and record that in your logs.

Tomorrow I will introduce you to the scientists and start to give you a description of each of their jobs. Please send questions to me at:

brice@rv-revelle.ucsd.edu



Revelle docked in Papeete



Captain Dave with Plankton!

1-10-05

I am going to start doing my journals as word docs and sending them as attachments. We are having some problems with the satellite and we cannot always send the e-mails right away, I don't have much internet access right now either. We may have to postpone the first broadcast if we can't get a stable signal from the satellite. Ah the joys of being at sea. It will all work out, this is just part of the game.

Learning how to deploy the CTD and collect the samples is very cool, you would like it. Weather is still nice and warm with a calm sea. I tried to send you a bunch of pictures, but it was too big to go, so I have to send them 2 at a time I guess. Anyway I will start now. As I work on my journals today I will give you more descriptions of the pictures.

About that list of activities in chronological order:

First we did Ocean/Atmosphere interactions

Ocean Exploration and Tools of Oceanography

Started with history of underwater vehicles and began to build our robots

Mapping the ocean basins and formation of seafloor features

Sound in the ocean (how sound is used to "see" underwater)

Wind Driven and Density Driven Currents

Waves, Tides and Tsunamis

* Now I am at sea and they will begin:

Chemical properties of Seawater

Water masses and Global Thermohaline Circulation

Relationships to Global warming and the Greenhouse Effect

Looking at interactions between the Biological and Physical Ocean:

Nutrients and trace elements as limiting factors

production of Chlorophyll and its role in taking CO₂ out of the atmosphere

Careers in Oceanography through interviews with Scientists and Crew members

Analysis and interpretation of real time data.

On my return:

Complete robots, hydrophones and underwater cameras

Field Trip to Ocean Institute to test robots and to get hands-on experience with real tools of oceanography: mud grabs, plankton tows, seawater analysis.

Note: Their journals should reflect these subjects as we go

I will fill this out more as I go and hope to add some activities and lesson plans online.....

Cheers

Deb