



**NOAA Teacher at Sea  
Elizabeth Eubanks  
Onboard NOAA Ship DAVID STARR JORDAN  
July 22 – August 3, 2007**

**NOAA Teacher at Sea: Elizabeth Eubanks**

NOAA ship DAVID STARR JORDAN

**Mission:** Catch rates of pelagic sharks comparing J hooks to Circular hooks in support of The Relative Abundance of Sharks Survey

**Date:** Day 12, August 2, 2007, Thursday

**Pacific Ocean** – West of San Nicholas

**Weather Data from the Bridge taken at 1300 (1pm) - Deep Sea Temp at (2000) 8pm**

Visibility: 10+ miles

Air temperature: 20.3 degrees C

Sea Temperature at 500 m:

Sea Temperature at surface: 19.8 degrees C

Wind Direction: 280 W

Wind Speed: 17 kts

Cloud cover: partially cloudy–alto cumulus

Sea Level Pressure: 1015.7 MB

Sea Wave Height: 1-2 ft

Swell Wave Height: 2 ft

**Science and Technology Log**

The Bow Chamber! Wow!

The Bow Chamber is in the bulbous bow. It is located in the very front of boat where the V hull is. Basically this area breaks up the water pressure to create less drag. The chamber is actually a little room about 20 feet down below the main deck. It has port holes/ windows so you can see aquatic life. Currently the windows have a lot of algae on them so it is hard to see out of them during the day. A group of us went down after dark and we could see bioluminescent creatures zipping by. We were seeing things such as dinoflagelletes/ plankton and jelly fish. It was so beautiful to watch.



**The Bow Chamber**



Doctoral student Dovi Kacev and NOAA Teacher at Sea Elizabeth Eubanks look down into the bow chamber.

### Personal Log

Great day. I got up at 5:30am to watch and learn a little more about the CTD, which I wrote about yesterday. We completed our 2 final sets and I gathered goodies to bring back to school.

We had the perfect ending to our last set. One of the very last hooks we pulled in possessed a huge, enormous Blue Shark. He was the biggest that we had caught so far, in length (229 cm) and girth. He gave a huge fight while in the water and even threw up a little (but thankfully not his stomach) before they got him onto the cradle. The best part of this was that the rest of the scientists could watch the people on the platform work with the shark, because the long line hauling was finished. It was truly the perfect ending to the perfect adventure.

Oh happy day,  
Elizabeth Eubanks

Please direct your emails (questions for me and answers to my questions) to the email address listed below. I will **NOT** be checking my yahoo email account until I return to land!

elizabeth.eubanks.atsea@jonems.jordan.oma.noaa.gov



A big Blue Shark. Graduate student Heather Marshall holds the tail while Dr. Jeff Graham helps Dr. Suzi Kohin with the bolt cutters as Dr. Russ Vetter retains the head.

**Please note: the NOAA person that is uploading my logs has been on vacation. She is currently uploading them now. If you would like to continue answering questions from my logs, you may do so up until August 14, 2007 to get extra credit. Please use my [hoocaca@yahoo.com](mailto:hoocaca@yahoo.com) account on and after August 3, 2007**

### **Question of the Day**

**How do bioluminescent creatures shine?**

### **Question of the trip**

**Which hook, the J or Circle will catch more sharks?**

*Please make a hypothesis. Utilize resources to justify your hypothesis. -----Yes, you get extra credit for this.*