



**NOAA Teacher at Sea  
Lisha Lander Hylton  
Onboard NOAA Ship DELAWARE II  
June 29 – July 11, 2008**

**NOAA Teacher at Sea: Lisha Lander Hylton**

NOAA Ship DELAWARE II

Mission: Surfclam and quahog survey

Geographical area of cruise: Off the coast of the northeastern United States, approximately 20 miles off coast of New Jersey

Date: Thursday, July 3<sup>rd</sup>, 2008, Stations 38-14

**Weather Data from the Bridge**

\* July 3, 2008 Thu\*

Sw Winds 15 To 20 Kt With Occasional Gusts Up To 25 Kt. Seas 3 To 4 Ft.

\* Thu Night\*

Sw Winds 15 To 20 Kt With Occasional Gusts Up To 25 Kt. Seas 3 To 4 Ft. A Chance Of Showers And Tstms After Midnight.

**Science and Technology Log**

Today, we experienced mechanical problems on the ship. I learned that this is why there are so many crew members on board. It takes the expert knowledge of many people in different careers to repair necessary equipment imperative to operate mechanical devices onboard. The problem we had is that a power cable connected to the pump blew out. Then they had to cut out the bad part of the cable and replace it to the power box that connects to the pump on the clam dredge. However, adding the new cable means that we had to reconnect all of the smaller wires to the power box. Then we had to check the power to the switch inside the pump. It took all hands on board to correct the problem, with Vic Nordahl, the chief scientist, in charge.

The problem was corrected with Vic Nordahl's knowledge and the assistance from the chief engineer, Brian Murphy, the 1<sup>st</sup> engineer, Chris O'Keefe, the 2<sup>nd</sup> engineer, Grady Abney, along with many other crewmembers.

Following is a sequence of photos that show the problem:





I was amazed at the way so many people were involved in fixing the problem.

The following people are crew members on board the DELAWARE II; many who helped to resolve the problem.

### **NOAA Crewmembers on the DELAWARE II and Their Titles and Careers**

Vic Nordahl – Chief Scientist

In command of all scientific people on the ship. In command of what each person does on the survey. Has complete control of the numerous tasks involved in the survey. He teaches and explains all procedures involved in survey to new crew members and gives advice to old crew members in a very patient and very informed manner. Vic also has expert understanding in engineering, equipment maintenance and electrical mechanics and was the crucial person who solved the problem with the power cable connected to the pump. His understanding and mechanical ability enabled us to complete this survey; otherwise we would have had to return back to port.

Captain Stephen Wagner – Captain of the ship.

Responsible for everything and everyone on the ship.

Lt. Monty Spencer – XO Executive Officer

Second in command on the ship. Oversees all general operations of the ship and personnel. Does all the accounting on the ship, keeps the budget, take care of making sure there are sufficient personnel on all trips.

Richard Raynes – Gear Specialist

Maintains all gear equipment on the ship. Makes all fishing nets for ship.

ENS Chuck Felkley – Junior Officer of the ship

In charge of safety, navigation and driving on board the ship under Lt. Monty Spencer

Engineer Staff: (Brian Murphy) the chief engineer, the 1<sup>st</sup> engineer (Chris O’Keefe) and the 2<sup>nd</sup> engineer (Grady Abney)

Francine Stroman – Marine Technician

Enters technological data of marine species under survey.

Jim Pontz and Mark Bolino - ABS (Able Bodied Seaman)

Handle all equipment on ship’s deck department. Lower and raise anything that goes in or out of water.

Mark Harris – High School Biology Teacher (ARMADA Teacher at Sea)

Layton High School, Layton, Utah

Lisha Hylton - Third Grade Elementary Teacher (NOAA Teacher at Sea)

Pelion Elementary School, Pelion, South Carolina

Patrick Bergin – Electrical Technician

Takes care of all of the electronic equipment on the ship; phones, radar, computers, electronic equipment to operate ship.

Lino Luis – Lead Fisherman

Radios when dredge pump is to be activated and deactivated.

Jakub Kircun – Seagoing Technician

In charge of the team that takes care of the biological specimens on the ship. Maintains all computers for storing data for specimens collected.

Richie Logan – Works on back deck (maintains machinery)

Kira Lopez – Sophomore at North Carolina State University majoring in Zoology.

Volunteer scientist

Alicia Long – Sea-Going Technician

Takes care of the biological specimens and the equipment used to maintain them.

Steph Floyd – Biological Science Technician

Summer employee trained by the sea-going technicians to take care of the biological specimens and the equipment used to maintain them.

Erin Earley – Oiler/Wiper

Assistant to engineers on ship

Jonathan Rockwell – Chief Steward

Prepares and cooks breakfast, lunch and dinner for entire crew.

Walter Coghlan – 2<sup>nd</sup> chef

Works with Chief Steward in preparing and cooking all meals.

Christi and Russell – College Seniors majoring in biology.

Sharon Benjamin– College Graduate majoring in biology.

### **Question of the Day**

How many crew members are on board THE DELAWARE II for The Clam Survey?

Answer: 32

### **New Term/Word/Phrase**

Conductive Electric Cable

**Something to Think About**

Vic Nordahl (at 2:00 A.M.) started thinking about and telling us possible solutions to the problem if it could not be fixed while out at sea.

**Challenge Yourself**

I will learn all I can about equipment maintenance and repair from the experts on board.

**Did You Know?**

It is highly difficult to fix an electrical problem on a ship because supplies are limited at sea.

**Animals Seen Today**

Seagull

Pelican