



NOAA Teacher at Sea
Jennifer Fry
Onboard NOAA Ship *Miller Freeman*
July 14 – 29, 2009

NOAA Teacher at Sea: Jennifer Fry

NOAA Ship *Miller Freeman* (link: <http://www.moc.noaa.gov/mf/>)

Current location of ship: www.shiptracker.noaa.gov (choose *Miller Freeman*)

Mission: 2009 United States/Canada Pacific Hake Acoustic Survey

Geographical area of cruise: North Pacific Ocean from Monterey, CA to British Columbia, CA.

Date: July 21, 2009

Weather Data from the Bridge

Wind speed: 10 knots

Wind direction: 011° from the north

Visibility: cloudy

Temperature: 16.2°C (dry bulb); 14.9°C (wet bulb)

Weather note: When you speak of **wind direction** you are talking about the **direction in which the wind is coming**.

Science/Technology Log

You can see by the weather data above that the seas were much calmer today.

We were able to conduct 3 fishing trawls amounting to several thousand kilograms of hake. Once the fish were hauled onto the deck, we began measuring, weighing, dissecting, and removing otoliths, ear bones, for age analysis. I removed my first pair of otoliths today. The best part of the day was the last and final trawl. We collected approximately 3,000 pounds of Humboldt squid which equals 444 squid. The math problem to calculate is...

“How much would one squid weigh in our catch?”

Right: Boatswain Matt Faber, and Skilled Fisherman, Gary Cooper, tend to full net of hake from one of the day's trawl.





Julia Clemons, NOAA Fisheries and Jennifer Fry, TAS pictured with Humbolt squid. Today's catch totaled 444 squid.



The squid were examined, weighed, and the data entered into the data base.



Personal Log

What strikes me today is just how dedicated the scientists and crew are to their jobs. Everyone has a specific job aboard the *Miller Freeman* that they take seriously.

Question of the Day

Can you use squid ink as you do regular ink? Is there a market for squid inked products such as cards?

New Term/Phrase/Word

Cusk eel

Animals Seen Today

Fish:

Humbolt squid

Hake

Iridescent Cusk eel (see photo)

Myctophid

Birds:

Shearwaters

Albatross

Gulls



A cusk eel

The Squid

The squid come on little tentacled feet

Falling, splatting, rolling, and sliding out of its netted jail.

Free at last

To be weighed and measured

Sitting on a strong mantle in a flowing liquid of ebony and midnight.

Your silent escape goes unnoticed.

The Clouds

The clouds slither on little squid tentacles

The midnight inky darkness envelopes the sky and warns us of foreboding

It sits looking over ships and sea lions

Its silent mantle quietly slides away.

(Inspired by Carl Sandberg's "The Fog")