

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 20, 2009

Weather Data from the Bridge

Reading in the morning: Wind speed: 40 knots Wind direction: 000° from the north Visibility: clear Temperature: 11.6°C (dry bulb); 10.5°C (wet bulb)

Reading in the afternoon: Wind speed: 20 knots Wind direction: 358° from the north Visibility: foggy Temperature: 12.2°C (dry bulb); 11.8°C (wet bulb)

Science/Technology Log

Fishing trawl #1. We conducted a successful fishing trawl. Collection of hake totaled 3500 kg. (kilograms.) Pictured are chief scientists Lisa Bonacci and Dezhang Chu getting to know the hake.



Chief scientist, Dezhang Chu, gets to know a hake while chief scientist, Lisa Bonacci looks on.



Collecting the hake's stomach help scientists determine its diet.



The hake stomach and a pair of otolith, ear bones will help determine what the hake is eating and how old the fish are.

Fishing trawl #2: There was trouble with the sonar equipment so we were unable to conduct a successful fishing trawl.

Personal Log

Today's unsuccessful fishing trawl due to a malfunction reminds me that we often learn more from our mistakes that our successes. Scientists are constantly reviewing their scientific process to make sure they align with their hypothesis.

After 3 days of gale force winds (34-40 knots) and big waves, today was a welcome change with 20 knot winds and calm seas in the afternoon. I finally feel like I've my "sea legs" about me.

Animals Seen

Fish: Hake Myctophidae Birds: Fulmar Albatross Gulls Shearwater