



**NOAA Teacher at Sea
Elsa Stuber
Onboard NOAA Ship McARTHUR II
June 4 – 9, 2007**

NOAA Teacher at Sea: Elsa Stuber

NOAA Ship MCARTHUR II Cruise S307

Mission: Collecting Time Series of physical, chemical and biological data to document spatial and temporal pattern in the California Current System

DAY 5 Thursday, June 7, 2007 at sea

Visibility: clear

Wind direction: NW

Sea wave height: 5-8 ft.

Sea temperature: 12.79 C

Air temperature: 14.7 C

Swell wave: 5-8 ft.

Sea Level pressure: 1016.

Cloud cover: partly cloudy

Science and Technology Log

Up at 06:30. Breakfast and watched with mammal observer on flying bridge. Saw a few albatross. Very rough water, windy, cold.

Cast 21, 22 and 23 taken by other teams.

Cast 24 @ 08:55 Station 67-75 Latitude 35.5749N Longitude 123.504491 W Cast depth 1000 meters

CTD cylinders tripped at 1000, 2000, 150, 100, 80, 60, 40, 30, 20, 10, 5, 0 meters

Very windy. Data for cast is Table 12 at the end of the report

Cast 25 @ 11:35 Station NPS 5 Latitude 36.026137 N Longitude 123.400087 W

Cast depth 1000 meters

CTD cylinders tripped at 1000, 900, 800, 700, 600, 500, 400, 300, 200, 100, 50, 0 meters

Nutrient samples only taken at this cast. Data for cast is Table 13 at the end of the report.

Very windy (23 knots)

Spent time again on the flying bridge with mammal observer. She said on the Beaufort Scale winds above 4 one doesn't expect to see wildlife out in the ocean. Beaufort scale today is "5".

Casts 26, 27, and 28 (wind 26 knots) processed by other teams.

Cast 29 @ 21:27 Station NPS 3 Latitude 36.22583N Longitude 122.57275 W Cast depth 1000 meters

CTD cylinders tripped at 1000,900, 800, 700, 600, 500, 400, 300, 200, 100, 50, 0 meters

Nutrients samples only collected at this cast. Very windy (wind 22 knots) and water is rough.

Data for cast is Table 14 at the end of the report.

Worked on chlorophyll analysis.

Took photos of some of the net tow specimen jars to show the extreme of near shore and out at sea differences in material.

Specimens observed today--some shrimp, a few jellyfish, a squid, pteropods, heteropods.

There is not the large amount of krill as observed in the net tow collections closer to shore.

Cast 30 @ 23:37 Station 67-60 Latitude 36.275608 N Longitude 122.466380 W

Cast depth 1000 meters

CTD cylinders tripped at 1000, 200, 150, 100, 80, 60, 40, 30, 20, 10, 5, 0 meters

Very windy (23 knots) Samples processed and stored Data for cast is Table 15 at the end of the report.

Bed 01:00 June 8th