



## NOAA Teacher at Sea Log:

Deborah Moraga

NOAA Ship: R/V Fulmar

Mission: ACCESS

Geographical Area: Cordell Bank

Date: Saturday, June 24, 2010

### Weather Data from the Bridge

Start Time: 0705 (7:05 am)

End Time: 1658 (4:58 pm)

Position:

CBOMP Line 6 start on eastern end: Latitude =  $38^{\circ} 6.6066$  N; Longitude =  $123^{\circ} 24.804$  W

CBOMP Line 1 end on eastern end: Latitude =  $37^{\circ} 56.1066$  N; Longitude =  $123^{\circ} 18.7206$  W

Nearshore line 1 start on western end: Latitude =  $38^{\circ} 8.5369$  N; Longitude =  $123^{\circ} 5.8019$  W

Nearshore line 1 end on eastern end: Latitude =  $38^{\circ} 8.7436$  N; Longitude =  $122^{\circ} 57.5893$  W

Present Weather: Cloud cover 100%

Visibility: 3-5 nautical miles

Wind Speed: light, variable winds 5 knots or less

Wave Height: 0 to 1.1 meters

Sea Water Temp: 11.6 C

Air Temperature: Dry bulb = 11 C

Barometric Pressure: 1014.0 mb

### Science and Technology Log

Today we worked the Cordell Bank transect lines (COMP). We finished all six lines of bird and marine mammal observations

Marine mammals that were spotted were...

- Blue whale
- Humpbacks- adult & calf
- Killer whale – male & female
- Dall's porpoises
- Harbor porpoises
- Harbor seal
- California sea lion
- Stellar sea lion



We saw Dall's porpoises riding the bow wake. Riding the bow means the porpoises were using the energy of the wave that is created by the front of the boat to body surf. It is a treat to watch them weave back and forth then leap up out of the water.

### Highlighted Birds

- Xantus's Murrelets
- Parasitic Jaegers

Today, the seas were very calm. This was a good thing because we had guests on board. We also surveyed near shore line one. Near shore lines take about 40 minutes traveling at 10 knots. The offshore lines take more time to survey because they are longer and we deploy the CTD and nets. On our off shore lines today we deployed the CTD seven times and took seven water samples and one of our visitors helped by collecting the last water sample of the day.