

# NOAA PISCES Cruise Leg4 Daily Report

Period covered: 2300 hrs 09/25/2010- 2300 hrs 09/26/2010

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## Vessel science party:

Name	Position	Email/Phone
David Valentine, Ph.D.	Chief Scientist	valentine@geol.ucsb.edu 805-729-5431
JP Walsh, Ph.D.	Sediment team lead	
David Finlayson, Ph.D.	Acoustic team lead	
Roberta Hansman, Ph.D.	CTD team lead	
Ken Feldman	Camera Sled	
Erik Quiroz	Chemistry Technician	
John Nugent	NRDA Rep	
Ahnnie Lee	Data Manager	
Kevin Mouyard	Water Sampler	
Whitney Williams	Water Sampler	
Mary White	Water Sampler	
Laughlin Sicheloff	Water Sampler	
David Newman	GCMS Tech	
Michelle Page	GCMS Tech	
Sam Waltman	Entrix Representative	
LT Liz Crapo	Blogger	

## Cruise notes:

## Daily Operations:

Data Collection	Collected (Y/N)?	Comment
CTD Casts	Y	
Fluorometry	Y	
Dissolved Oxygen	Y	
Methane	Y	
Sampling – TPH	N	
Sampling – VOA	N	
GCMS	N	
Coring	Y	
GCMS	Y	
Sampling – TPH	N	
Acoustics	N	
Camera Tow	Y	
Other:		

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**Science results and preliminary interpretations:** (please attach any figures/images at end of document)

CTD Sampling Stations: Fluorometry and Dissolved Oxygen preliminary results

StationID	Comments
66	Collected DO, Aquatraka, shallow
64	Collected DO, Aquatraka, shallow
9	Collected DO, Aquatraka, shallow
12	Weak DO Sag, Aquatracka anomaly

At 1200 received mission guidance update indicating that CTD casts were not needed at shallow stations. At 1800 received guidance to stick with deep water sampling stations.

Core Sampling: Preliminary Appearance

Station ID	Lat	Lon	Visible Oil	GCMS Sampling?
66	29.266036	-88.08774	N	Y (floc & 0-2 cbsf)
64	29.406168	-87.946215	N	Y (floc & 0-2 cbsf)
9	29.5639	-87.93457	N	Y (floc & 0-2 cbsf)
12	28.83337	-87.868287	N	Y (floc & 0-2 cbsf)

cbsf: centimeters below sea floor

Acoustic Surveys

We developed an operational mode to passively collect acoustic data concurrent with coring operations. The acoustic expert aboard is working on programs to interpret sediment type and other aspects of the sea floor. We are also attempting to use the acoustic tools aboard to track the precise location of equipment lowered from the vessel.

Tow Sled

Conducted shakedown deployment of tow sled at station 55.

Other Observations

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## **Operational / Logistical issues:**

We completed three stations prior to the winch malfunction at 0730. While the crew worked to fix the winch we opted for shakedown operation on the camera tow sled. We then proceeded to station 12 to conduct a shakedown on a recently cut wire. The winch was fixed in the afternoon and coring recommenced at Station 12.

## **Planned activities for next 24 hours:**

Coring operations are planned at several deep stations with intermittent CTD casts to shallower depth. These include stations 13, 19, 14, and 25.