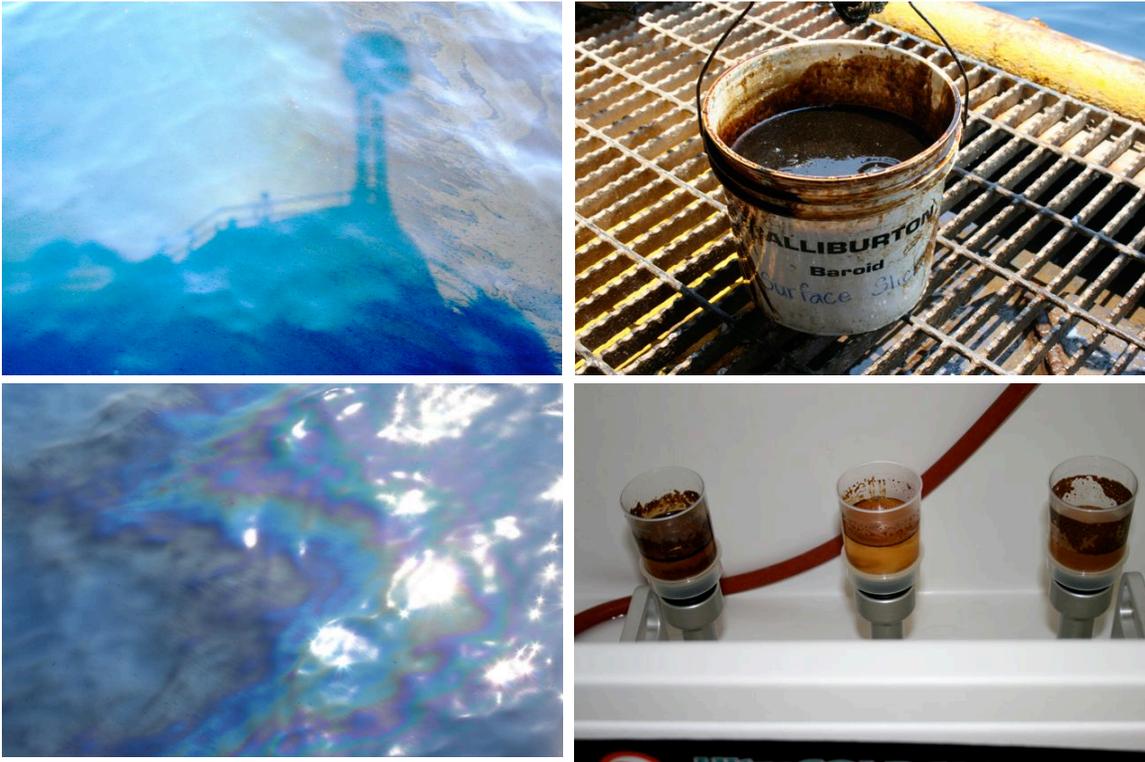


Daily Report
R/V Ocean Veritas
May 28, 2010
Eric Dubinsky and Olivia Mason

CTD rosette deployed at 07:30 at site OV005. Depth to bottom was 1001 m. Oil observed on the surface but not at depth. Only three niskin bottles were fired at 2, 300, and 500 m; therefore, no samples were collected from this site.

CTD rosette deployed at 10:30 at site OV006. A lot of oil was observed on the surface, both as a residue and as brown/red weathered oil.



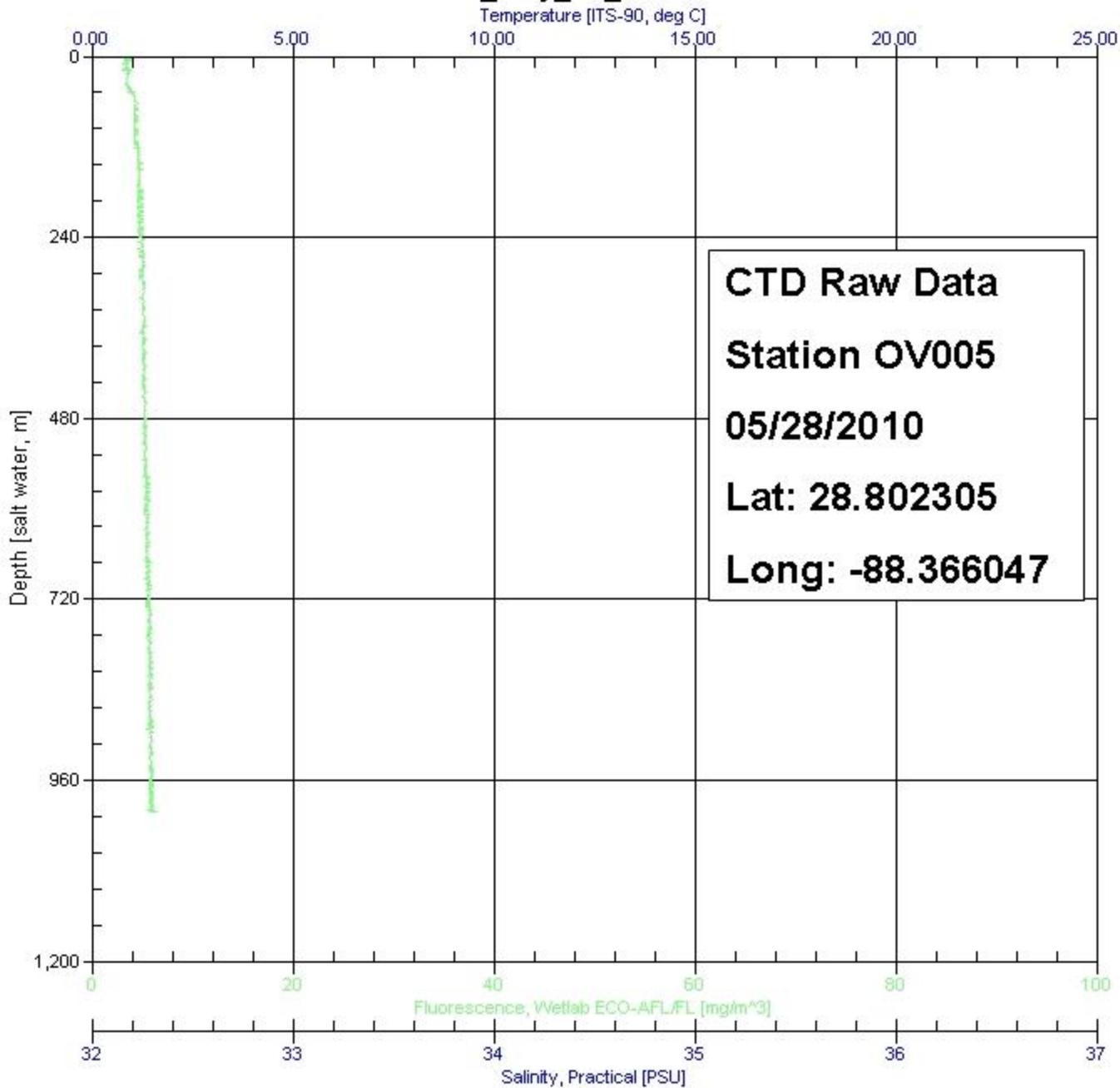
No oil was observed at depth down to 1399 m (see attached). Samples were collected for full biological and chemical (isotopes, nutrients, VOA) characterizations from the surface. Two extra 500 mL bottles of surface sample were also collected and stored at 4°C. No niskin bottles were fired. **Note:** this site was meant to serve as a resampling of the benchmark site B52, which has been sampled ~11 times by the Brooks McCall. The underwater plume has always been observed at this site. The lack of oil at depth was unexpected and preliminarily suggested that the underwater plume had moved away from the wellhead.

CTD rosette was deployed at 20:44 at site OV007. No oil was observed on the surface or at depth down to 1847 m (see attached). Surface samples were collected for full biological and chemical characterizations. No niskin bottles were fired.

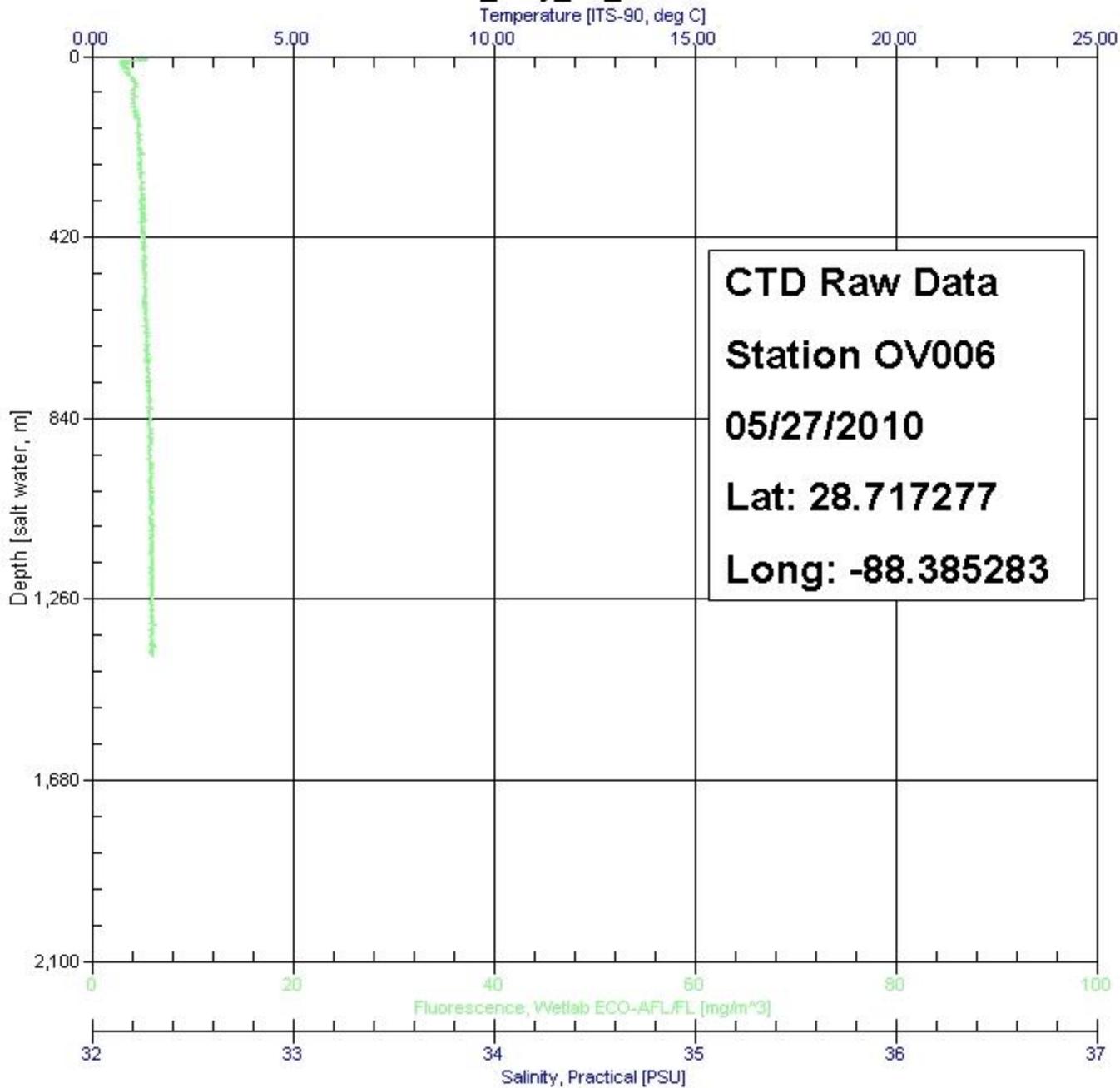
CTD rosette was deployed at 23:45 at site OV008. No oil was observed on the surface or at depth down to 1800 m. Surface samples were collected for full biological and chemical characterizations. No niskin bottles were fired. After sampling at this site the cable attached to the CTD rosette needed to be repaired and rewound. The crew worked on repairing the cable into the night.

Note: the original sampling plan was to continue eastward. No oil had been observed in the easternmost sites sampled thus far (sites OV007 and OV008); therefore, detection of the plume would be unlikely even further east. We convinced the chief scientist to abort the plan to head east and instead return to the site of the wellhead. With CTD information from the previous Brooks McCall cruise we plotted all points at which the underwater plume has been observed and selected a center point (see attached). These coordinates were given to the captain (site OV010). Upon plotting the Brooks McCall sampling sites, we discovered that site OV006, which was meant to serve as a return to the reference site B52, were not in fact, the correct coordinates. This information was relayed to the chief scientist. The correct coordinates were given to the captain (site OV011). The revised sampling map is attached.

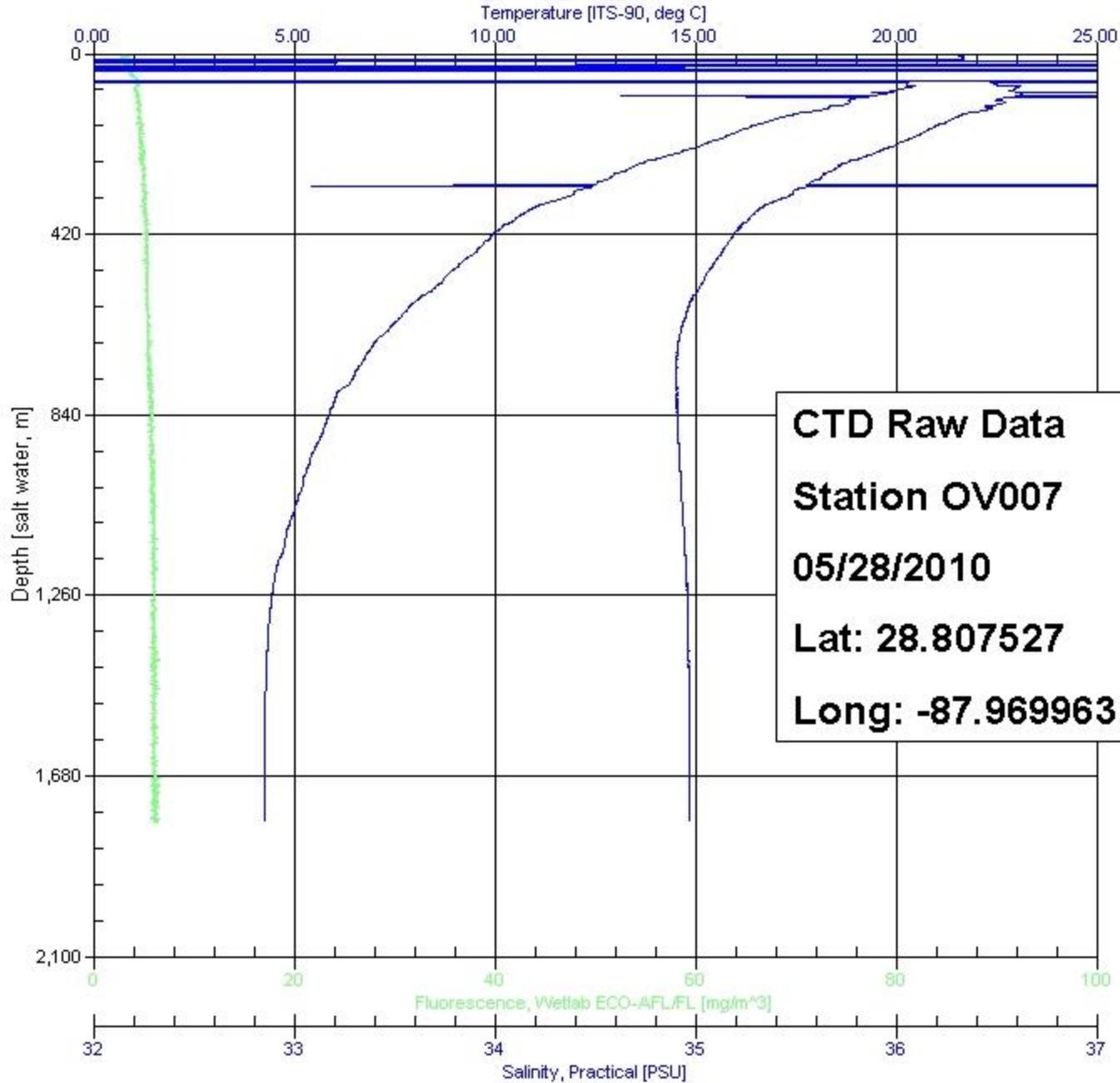
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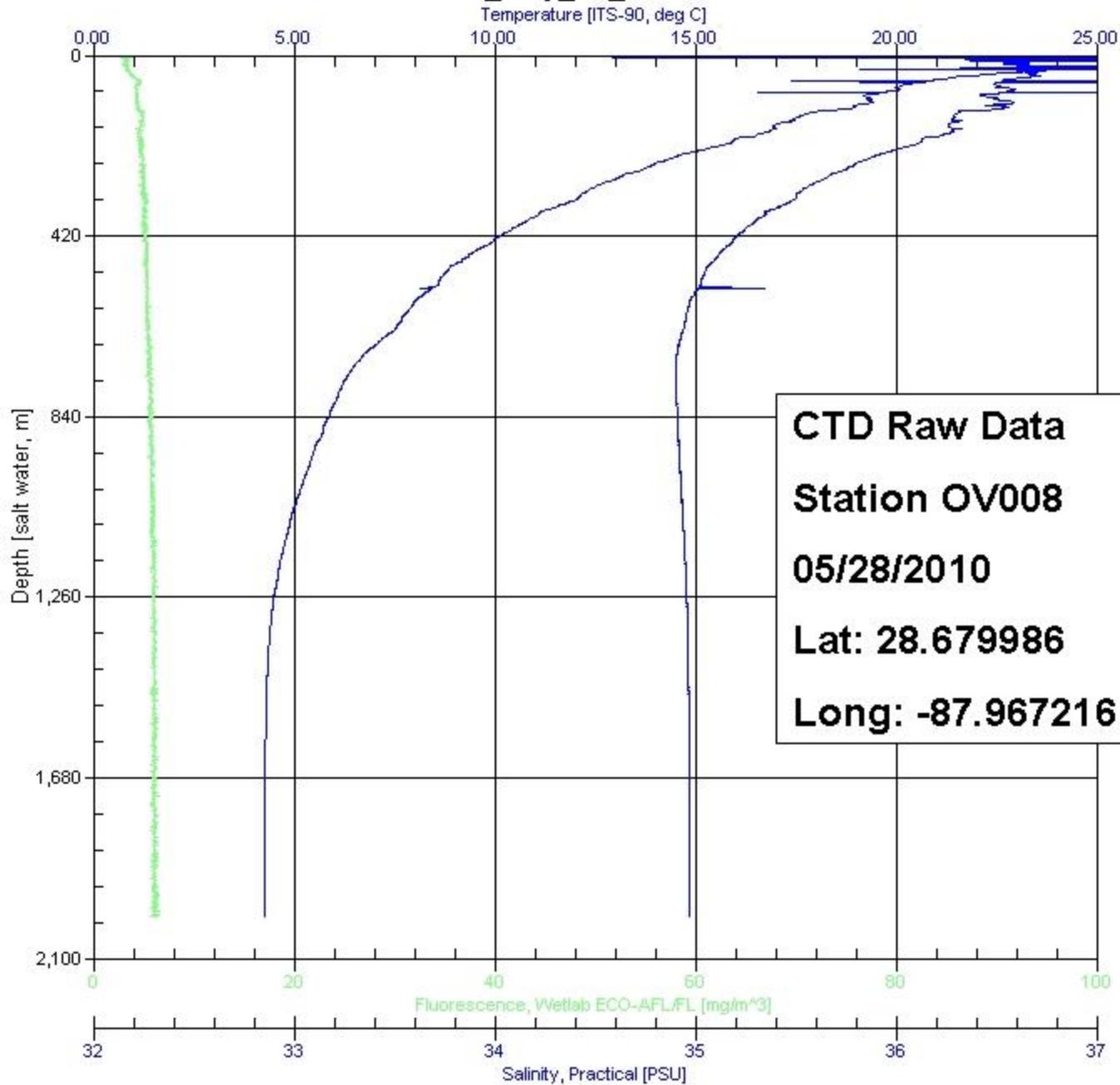
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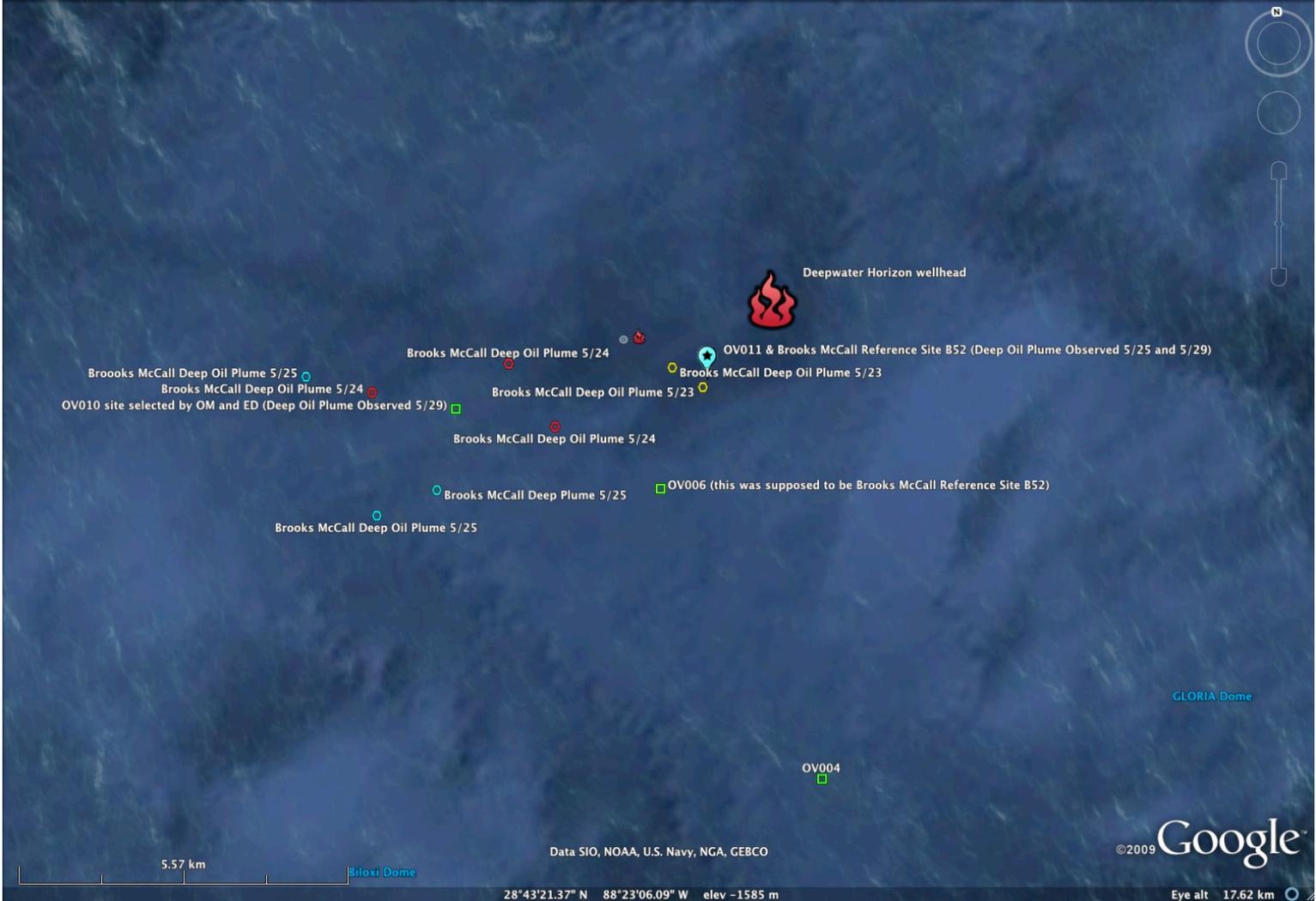


2010_May_28_V07.hex



2010_May_29_V08.hex





Ocean Veritas Cruise 1

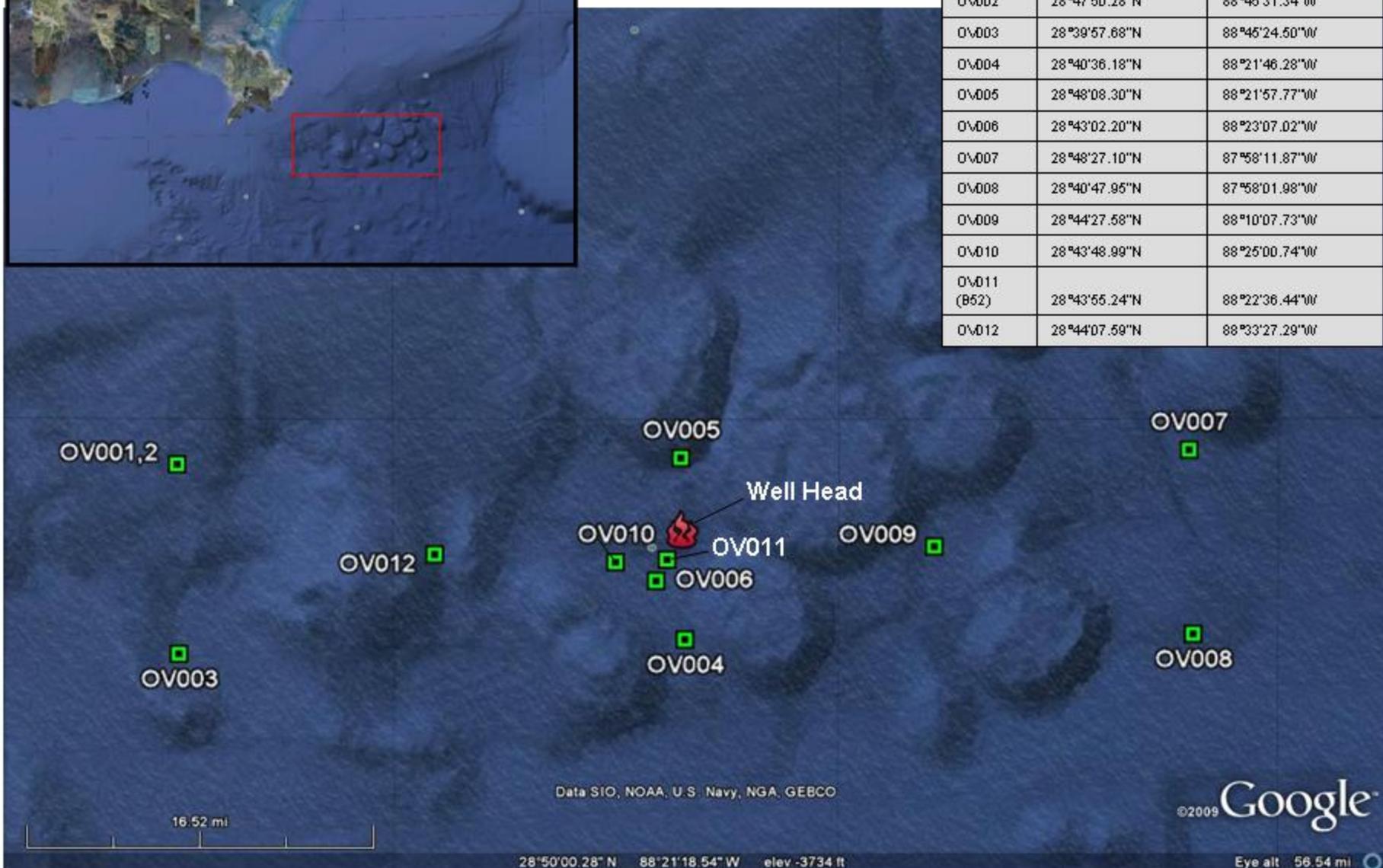
5-29-10

Sampling Map



Green = CTD Sampled Location

Site	Lat	Long
OV001, OV002	28°47'50.28"N	88°45'31.34"W
OV003	28°39'57.68"N	88°45'24.50"W
OV004	28°40'36.18"N	88°21'46.28"W
OV005	28°48'08.30"N	88°21'57.77"W
OV006	28°43'02.20"N	88°23'07.02"W
OV007	28°48'27.10"N	87°58'11.87"W
OV008	28°40'47.95"N	87°58'01.98"W
OV009	28°44'27.58"N	88°10'07.73"W
OV010	28°43'48.99"N	88°25'00.74"W
OV011 (B52)	28°43'55.24"N	88°22'36.44"W
OV012	28°44'07.59"N	88°33'27.29"W



Data SIO, NOAA, U.S. Navy, NGA, GEBCO

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Eye alt 56.54 mi