

09 September 2010 – Brooks McCall Report – Cruise 22 - Day 2
TDI Brooks International (for BP)

Day 2 of Cruise 22 continued tracking the subsurface plume signals as part of Operation Clean Sweep. The day was spent working on four (4) stations in transect T3 (S1, S2, S3, S4). No surface oiling was observed today. As with recent cruises, on-board DO analysis was undertaken. Weather – clear, seas 0-1ft. swells, thundershowers in area, partly cloudy afternoon

The CTD casts completed today are summarized in the table and shown in the figure, below

Station	Position from wellhead	Fluorescence signal	Signal depth	Comments
BM 213 T3S1	Bearing 245deg. 255.5km	No signal	976m	No distinct DO sags in this station
BM214 T3S2	Bearing 221deg 107km	No signal	1282m	Sm.anomaly in DO. count
BM215 T3S3	Bearing 214 deg 111.8km	No signal	1343m	Sm.anomaly in DO. count
BM216 T3S4	Bearing 207deg 118km	No signal	1467m	Sm.anomaly in DO. count

There was no indication of oil in the fluorometry data at any of the sites sampled. There were small DO anomaly levels where observed on BM214 (T3S2), BM215 (T3S3) and BM216 (T3S4) around 1100m water depth. The signal depth column does not show the 20m depth needed to reach to the sea floor. Water sampler was always 20m off bottom.

The following definition has been adopted to provide common terminology on how subsurface oil is referred to:

Oil Plume “Concentration of oil (above background) in the water column that appears to be part of a larger pattern of dispersed oil based on real-time fluorometry and LISS particle data analysis”.