

**END OF DAY STATUS REPORT,
R/V OCEAN VERITAS**

**Reporting Period:
Report #61
Date: July 28, 2010**

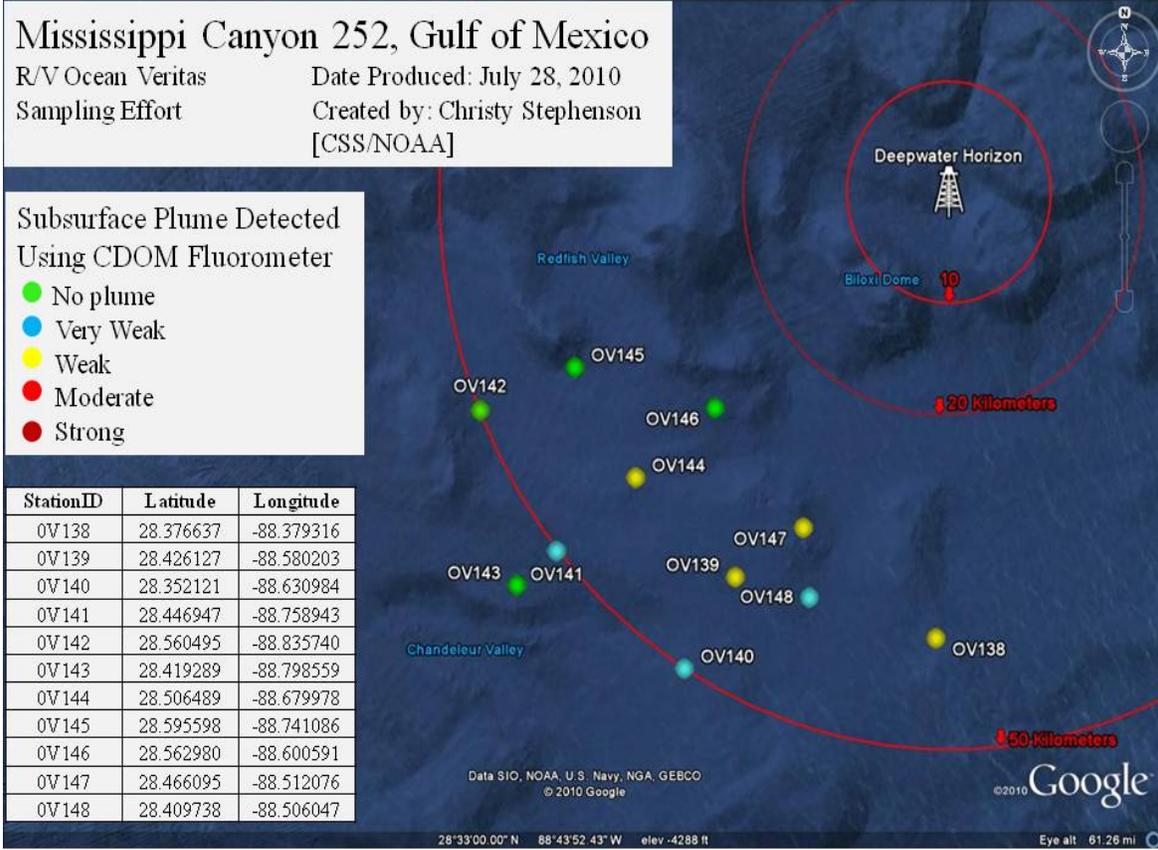
Prepared for:

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FRONTISPIECE



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SUMMARY

On July 28th, CTD casts and LISST sampling were conducted at six locations, OV143 to OV148.

Station OV143 'bottomed out' at 1240 m, close to the depth where a fluorescence/DO signal would normally be expected. Examination of the trace shows a significant dip in the dissolved oxygen Level (1.1mg/L) at 1140 m, but no corresponding fluorescence peak.

The second station today (OV144) was established along the same transect as yesterday's last station but closer to the wellhead (WSW, ca. 30 km out). The trace from this station was characterized by a weak but significant fluorescence signal between 1175-1205 m coinciding with a distinct dip in dissolved oxygen (2.7mg/L) at the same depth. Small, secondary dissolved oxygen excursions, between 1100-1140 m were not accompanied by any fluorescence peaks.

Station OV145 was established WSW of the wellhead approximately 40 km out. This was on the same transect as OV142, but closer to the wellhead. This station showed no significant deviations from baseline in either fluorescence or dissolved oxygen. Station OV146 was established 12 km ESE of OV145. Apart from some minor deviations in dissolved oxygen concentration, no significant peaks were noted with respect to either fluorescence or DO.

Station OV147 was located 33 km SSW from the well-head. A weak fluorescence trace was registered at this station, corresponding to a dip of 1.3mg/L in dissolved oxygen. Several secondary excursions in dissolved oxygen trace apparently formed a zone of depressed oxygen between 1040-1320 m, with a mean depression of ca. 0.5mg/L.

A sixth station (OV148) was established 5 km south of OV145, and occupied a position 38 km SSW of the wellhead. On the basis of a very slight shift in the baseline at ca. 1280 m the fluorescence signal was rated very weak, although this was marginal. A series of small excursions in dissolved oxygen was seen between 1100-1320 m in depth

This report presents the results from stations OV143 to OV148.



1. VESSEL OPERATIONS

1.1 Daily Operations

CTD casts and *in situ* LISST sampling were conducted at six stations (OV143 to OV148). The deck crew continued to perform maintenance on the vessel.

1.2 Science

CTD and LISST data were collected. Water samples were collected using the CTD.

1.3 Safety

A Job Safety Analysis (JSA) for the deployment and recovery of sampling equipment and other tasks were conducted. A daily crew/safety meeting was held. Constant air monitoring for benzene and VOC levels was done (IH personnel on board); VOC and benzene levels were within acceptable ranges. A weather system currently in the Caribbean is being monitored for development.

1.4 Engineering

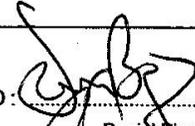
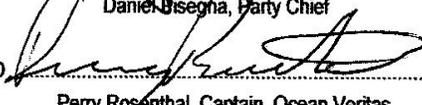
The engineering team onboard the R/V Ocean Veritas continued to perform scheduled maintenance and various testing of ship's alarms and safety equipment. The team are also maintaining a watch schedule on all machinery and machinery spaces.



2. DESCRIPTION OF OPERATIONS

2.1 Daily Survey Log

The following provides a summary of the activities for July 28th.

| DAILY SURVEY REPORT | |
|--|--|
| CONTRACT NAME: Ocean Veritas_ Water Quality Program | |
| CONTRACT NO: C16408 | |
| DATE : 28 JUL 2010 | |
| VESSEL / LOCATION: R/V Ocean Veritas / Near the site of the Deepwater Horizon, then steaming to Port Fourchon | |
| PERSONNEL: Michael Gilbert, Chris Taylor, Dan Pisegna, and Ward Bekins | |
| TIME ZONE: US Central (GMT -5) | |
| TIME (local) | OPERATIONS |
| 00:00 | Continued jogging around the site of the Deepwater Horizon. |
| 06:38-07:44 | Conducted Cast OV143 (CTD, LISST, LISST Transect, and ADCP). |
| 09:06-10:10 | Conducted Cast OV144 (CTD, LISST, LISST Transect, and ADCP). |
| 11:21-12:20 | Conducted Cast OV145 (CTD, LISST, LISST Transect, and ADCP). |
| 13:43-14:51 | Conducted Cast OV146 (CTD, LISST, LISST Transect, and ADCP). |
| 16:10-17:25 | Conducted Cast OV147 (CTD, LISST, LISST Transect, and ADCP). |
| 18:23-19:33 | Conducted Cast OV148 (CTD, LISST, LISST Transect, and No ADCP). |
| 19:45 | Underway to Port Fourchon. |
| 20:00-21:30 | Cleaned instrumentation and downloaded SBE 19 plus data. |
| 22:00-22:30 | Completed paperwork and uploaded remaining data files. |
| 23:59 | End of day. |
| WORK COMPLETED TO DATE | |
| OV143, OV144, OV145, OV146, OV147, OV148 | |
| SAFETY | |
| All operations completed safely. | |
| COMMENTS: N/A | |
| MIDDLE GULF WEATHER REPORT, NOAA | |
| Wind : Variable 5-10 knots | SIGNED :  Daniel Pisegna, Party Chief SIGNED :  Perry Rosenthal, Captain, Ocean Veritas |
| Sea : 1-2 feet | |
| Weather : Sunny | |



2.2 Survey Samples and Site Conditions

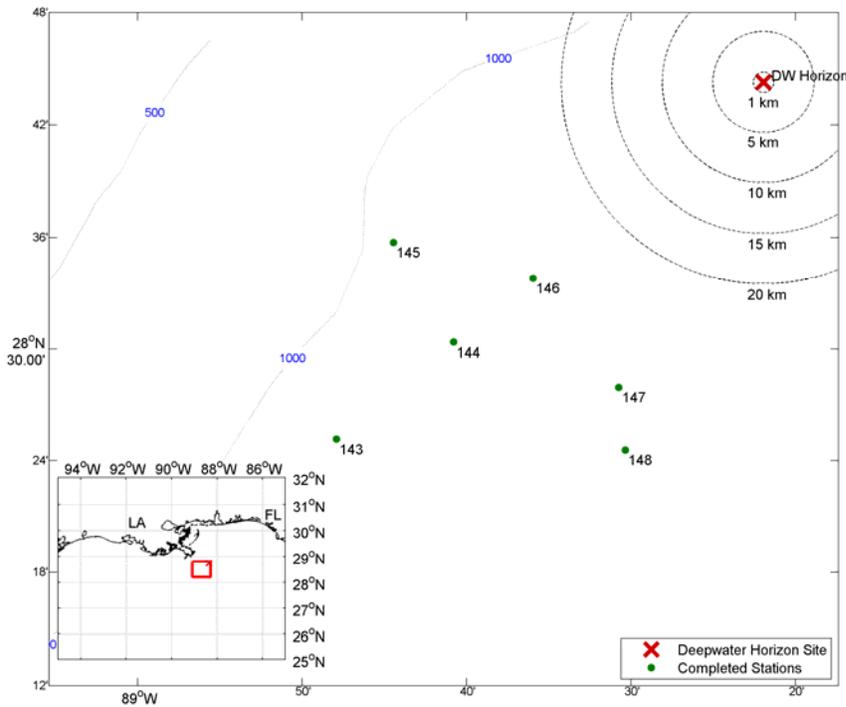
Weather today was clear, with winds <1knot and seas 1-2'.

Measurements were made at six locations as listed in Table i and shown in Figure i.

Table i: July 28th Sampling Site Locations

| Station # | Position | Water Depth [m] | Comments |
|-----------|-------------------------------|-----------------|----------------------|
| OV143 | 28.419183°N , 88.798605°W | 1280 | No surface oil sheen |
| OV144 | 28.506330°N , 88.679978°W | 1350 | No surface oil sheen |
| OV145 | 28.595666°N , 88.741084°W | 1216 | No surface oil sheen |
| OV146 | 28.563711°N , 88.599527°W | 1470 | No surface oil sheen |
| OV147 | 28.466120°N , 88.5125220°W | 1645 | No surface oil sheen |
| OV148 | 28.409513°N , 88.5059980°W | 1636 | No surface oil sheen |

Figure i: July 28th Track Plot and Sampling Sites





3. CTD, DISSOLVED OXYGEN AND FLUORESCENCE PROFILES

Six CTD profiles were obtained using the Seabird SBE 9plus pumped CTD profiler complete with a SBE 43 DO sensor and a WetlabWetstar fluorometer. The plume strength definitions are presented in Table ii.

Table ii: Definition of Plume Strength

| Plume Rating | DTD Fluorescence signal [mg/m ³] |
|--------------|--|
| No plume | Background |
| Very weak | > Background ≤ 1 mg/m ³ |
| Weak | > 1 mg/m ³ ≤ 5 mg/m ³ |
| Moderate | > 5 mg/m ³ ≤ 15 mg/m ³ |
| Strong | > 15 mg/m ³ |

A total of six CTD casts were completed July 28th.

The last station yesterday (OV142), WSW of the wellhead, 50 km out, did not appear in the text of yesterday's report (July 27th 2010 Status Report) but was shown on the map accompanying that report. The depth profile was less deep (1100 m) than the majority of stations visited so far. The CTD trace showed no excursions in either fluorometry trace or dissolved oxygen. Part of the reason for this may be that the sea bottom was reached before any peaks in fluorometry or dips in dissolved oxygen are normally seen. For today's first station (OV143) we moved the vessel 55 km out from the well-head along the same (SW) transect as OV141 visited yesterday (v. weak signal). The trace for OV143 appeared very similar to that of OV142, and showed the same tendency toward a less deep profile. The station 'bottomed out' at 1240 m, close to the depth where a fluorescence/DO signal would normally be expected. Examination of the trace shows a significant dip in the dissolved oxygen Level (1.1mg/L) at 1140 m, but no corresponding fluorescence peak. While the trace was rated as having no significant fluorescence peak, there is some sign of incipient deviation in fluorescence from the baseline at the very bottom of the trace (too small to 'score') and a possible coincident dip in DO. However the cut-off of the trace makes this difficult to quantify.

The second station today (OV144) was established along the same transect as yesterday's last station but closer to the well-head (WSW, ca. 30 km out). The latest version of the SIMAP Oil Fate Model (July 27th) indicated two plumes south of the wellhead, each oriented in a ENE-WSW direction. Station OV144 was located just to the north of these estimated plumes. The trace from this station was characterized by a weak but significant fluorescence signal between 1175-1205 m coinciding with a distinct dip in dissolved oxygen (2.7mg/L) at the same depth. Small, secondary dissolved oxygen excursions, between 1100-1140 m were not accompanied by any fluorescence peaks.

Station OV145 was established WSW of the wellhead approximately 40 km out. This was on the same transect as OV142, but closer to the well-head. This station showed no significant deviations from baseline in either fluorescence or dissolved oxygen. Station OV146 was established 12 km ESE of OV145. Apart from some minor deviations in dissolved oxygen concentration, no significant peaks were noted with respect to either fluorescence or DO.



Between them, the lack of fluorescence signals at stations OV142, OV145 and OV146 apparently define the northern limit of the two plumes described most recently by the SIMAP Oil Fate Model. From this we estimated that these plumes are currently several kilometers south of these stations, and therefore established the fifth station of the day (OV147) 12 km SE of OV146. This station was located 33 km SSW from the wellhead. A weak fluorescence trace was registered at this station, corresponding to a dip of 1.3mg/L in dissolved oxygen. This confirmed that we had re-established 'contact' with the plume at this point. Several secondary excursions in dissolved oxygen trace apparently formed a zone of depressed oxygen between 1040-1320 m, with a mean depression of ca. 0.5mg/L.

A sixth station (OV148) was established 5 km south of OV145, and occupied a position 38 km SSW of the wellhead. On the basis of a very slight shift in the baseline at ca. 1280 m the fluorescence signal was rated very weak, although this was marginal. A series of small excursions in dissolved oxygen was seen between 1100-1320 m in depth.

No surface sheens were seen at any of today's stations.



Figures ii to vii present the results from the CTD, dissolved oxygen and fluorometer sampling from Stations OV143 to OV148.

Figure ii: Station OV143 CTD, DO and Fluorescence Profile

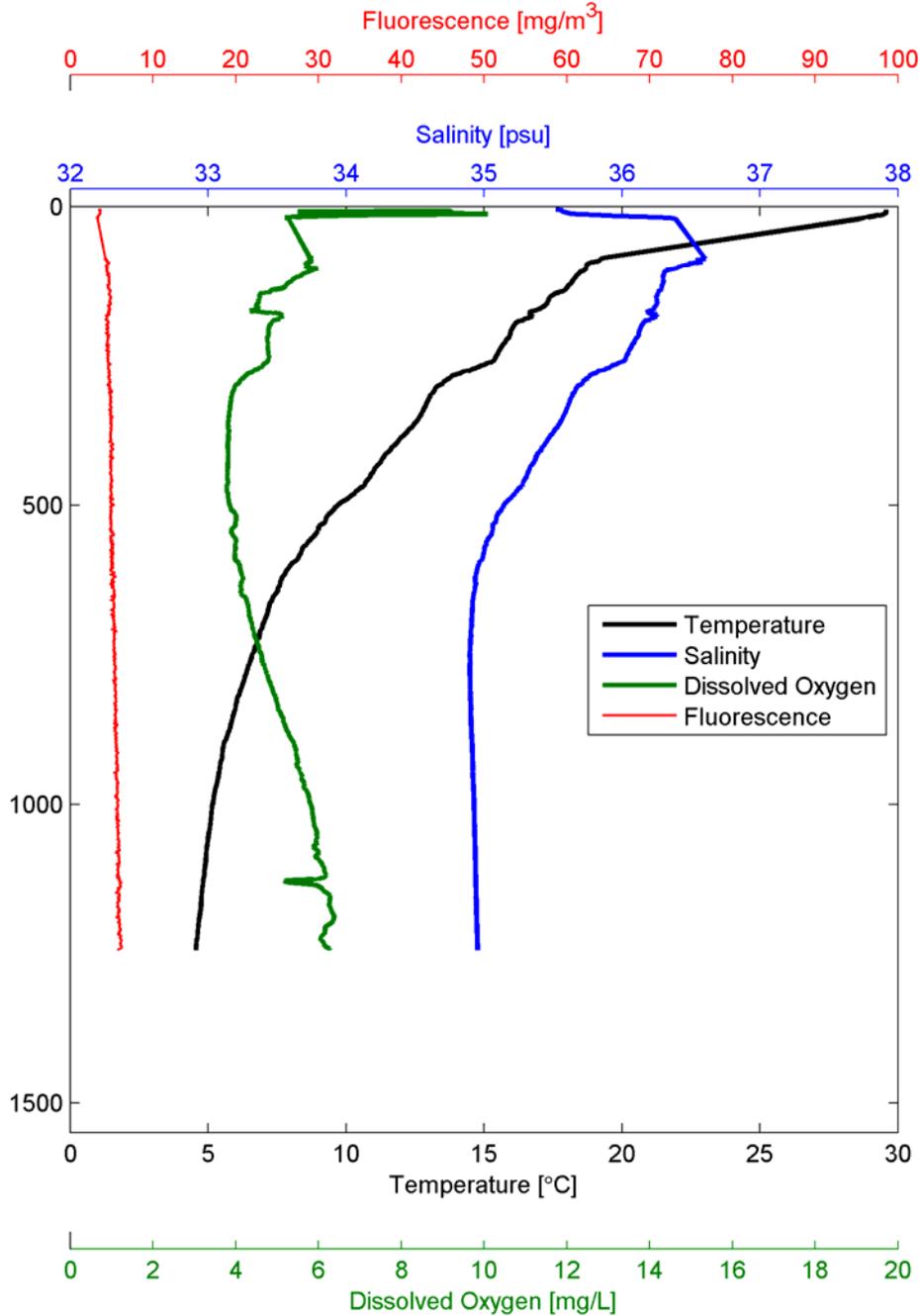




Figure iii: Station OV144 CTD, DO and Fluorescence Profile

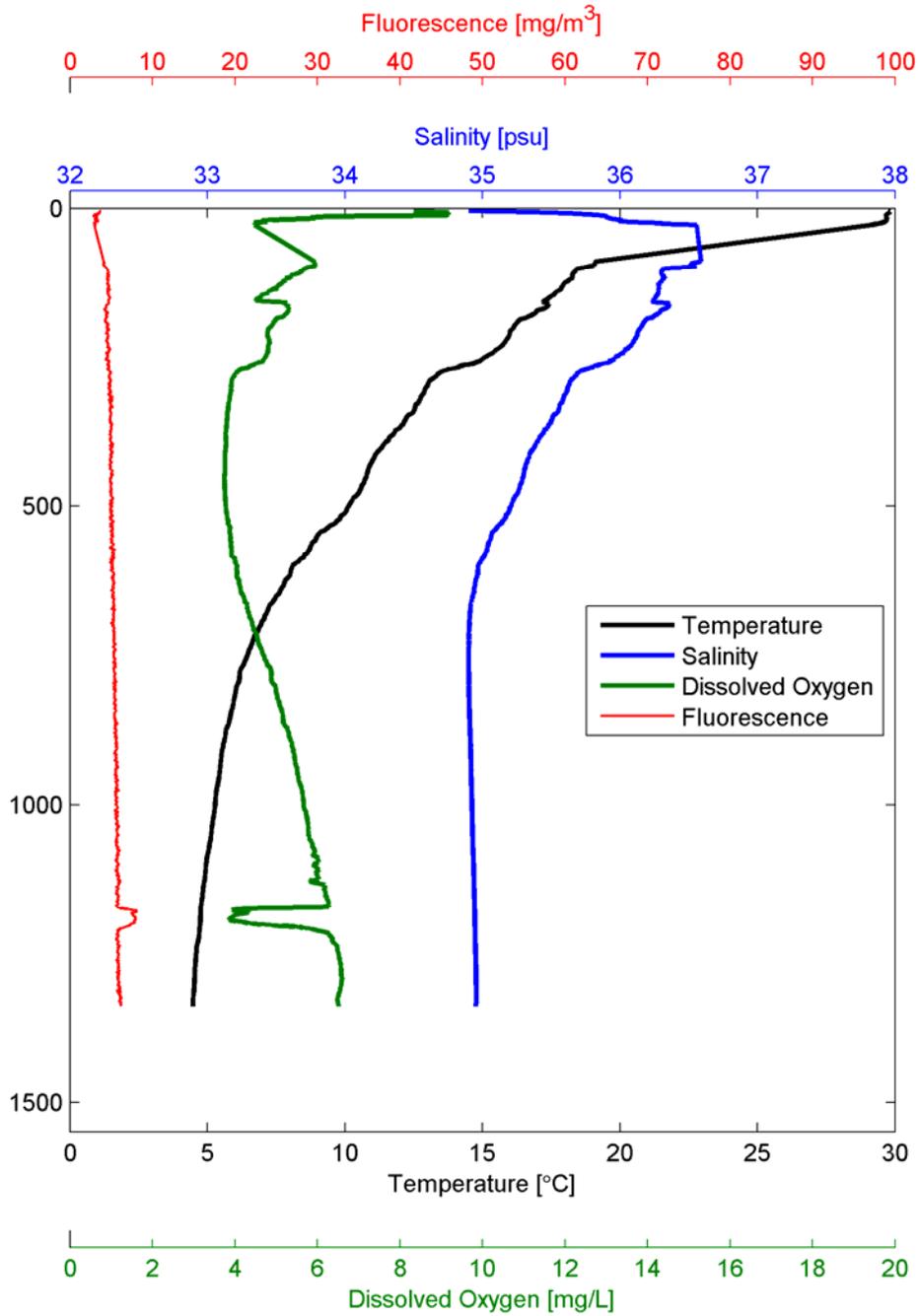




Figure iv: Station OV145 CTD, DO and Fluorescence Profile

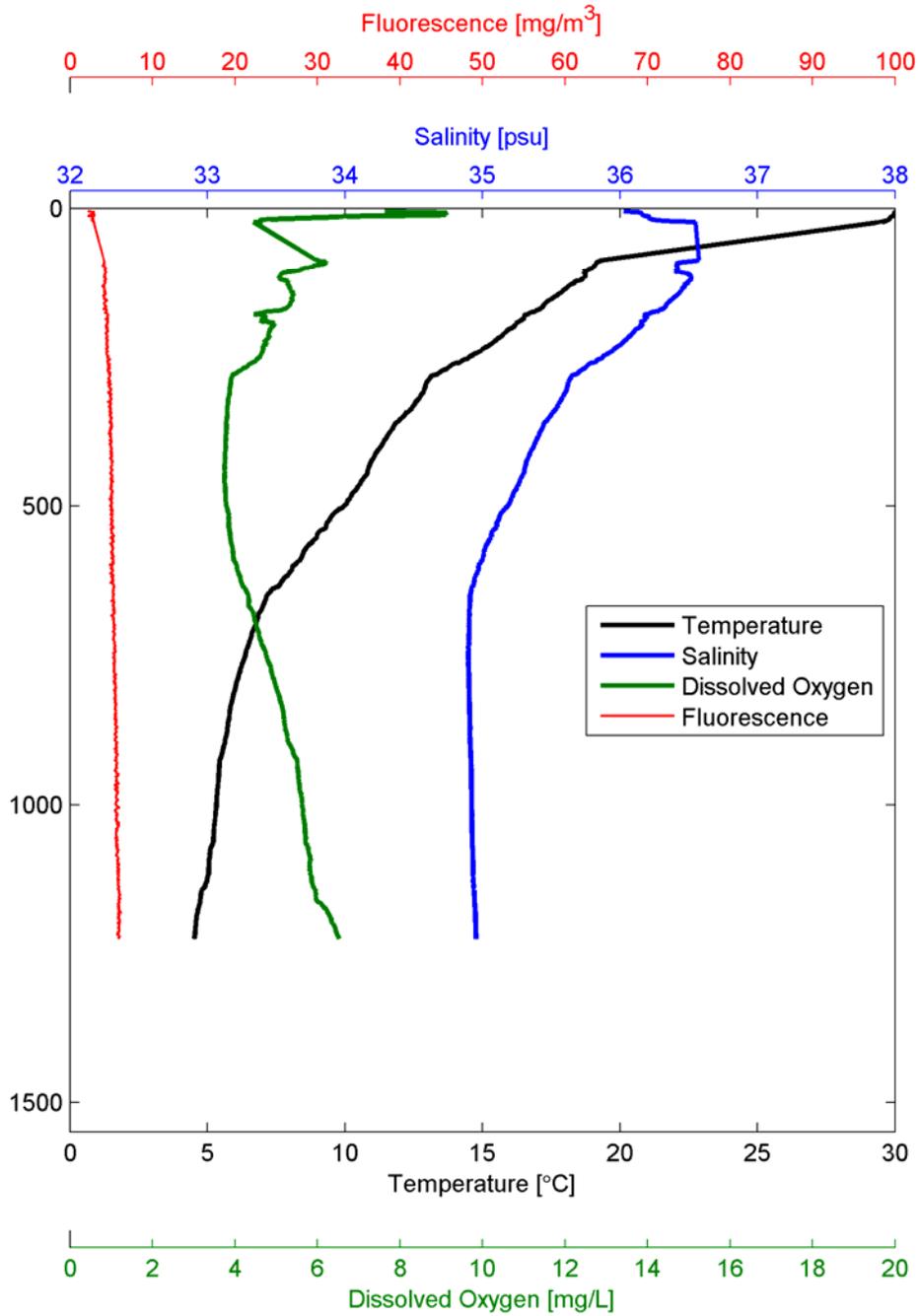




Figure v: Station OV146 CTD, DO and Fluorescence Profile

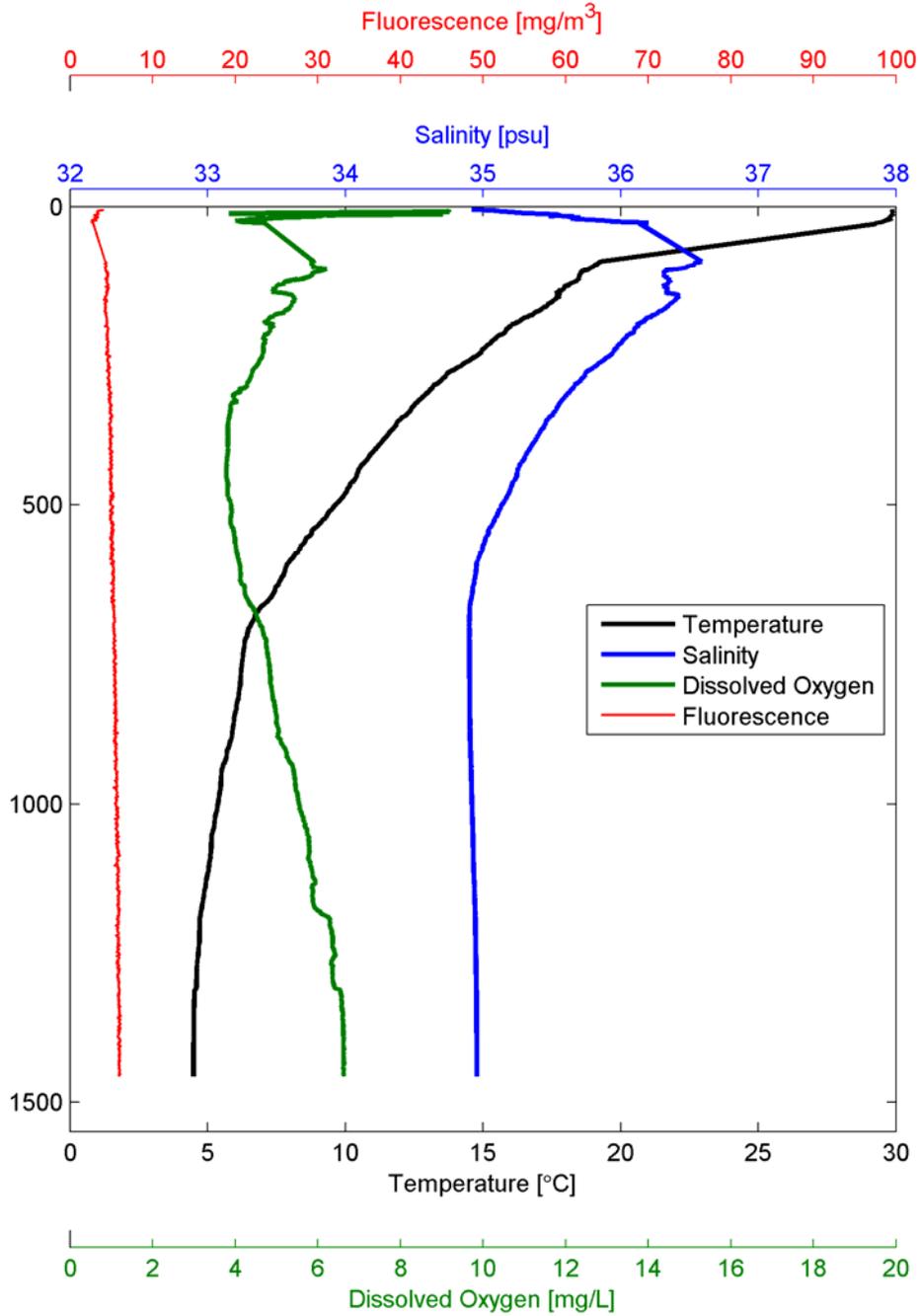




Figure vi: Station OV147 CTD, DO and Fluorescence Profile

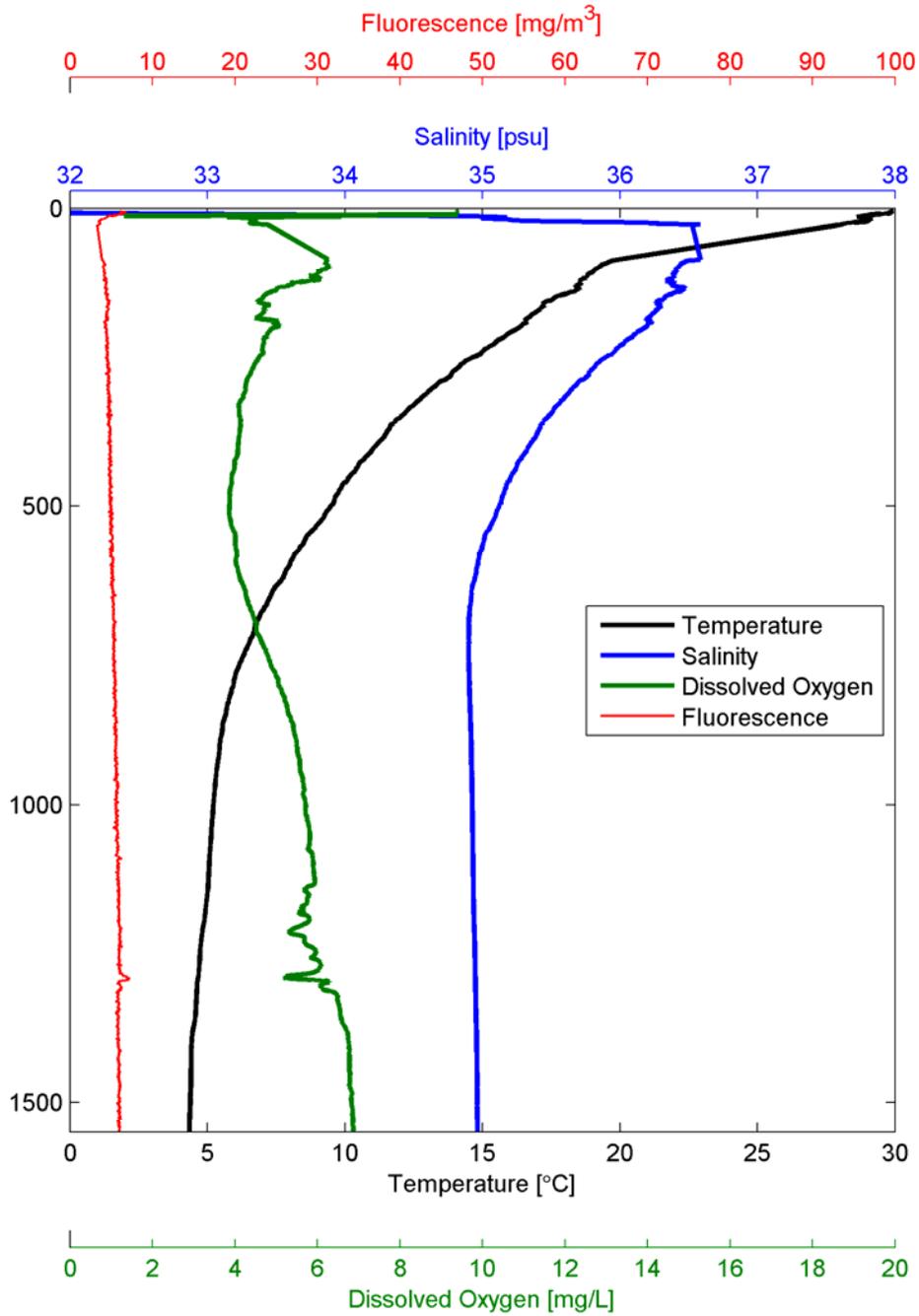




Figure vii: Station OV148 CTD, DO and Fluorescence Profile

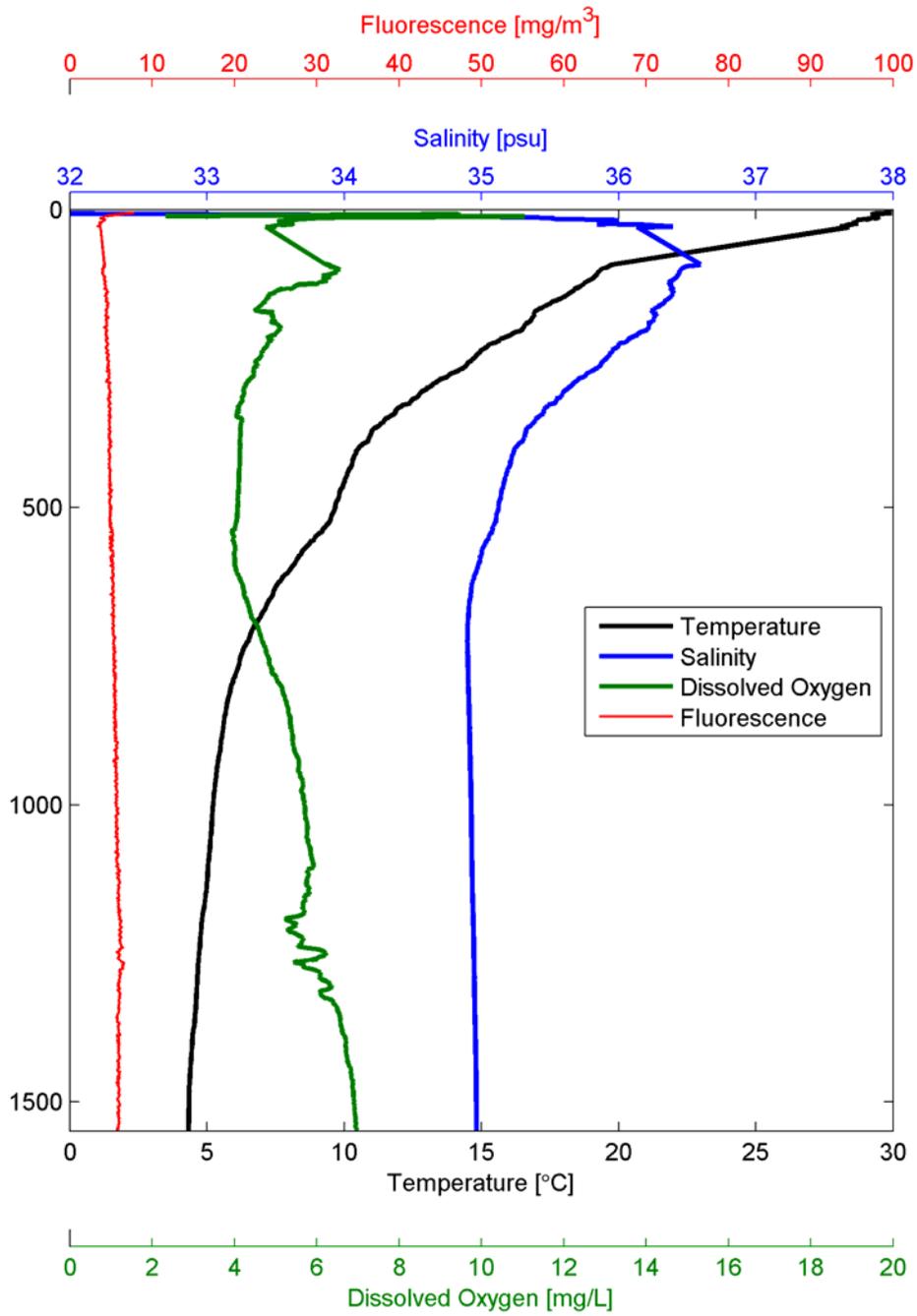




Table iii: FIR Quantec Fluorescence Intensity Data

| sample ID | Date | Depth(m) | 340 | | | 450 | | | FIR |
|-----------|--------|----------|-----|-----|-----|-----|-----|-----|------|
| OV12399 | 20-Jul | 0.5 | 145 | 178 | 206 | 195 | 206 | 152 | 0.94 |
| | | | 100 | 98 | 124 | 104 | 103 | 142 | |
| OV12308 | 20-Jul | 3 | 103 | 114 | 115 | 89 | 111 | 120 | 1.10 |
| | | | 107 | 131 | 110 | 87 | 111 | 101 | |
| OV12302 | 20-Jul | 1210 | 105 | 117 | 149 | 60 | 91 | 63 | 1.49 |
| | | | 109 | 101 | 103 | 69 | 99 | 78 | |
| OV12499 | 20-Jul | 0.5 | 131 | 98 | 109 | 159 | 98 | 104 | 0.96 |
| | | | 105 | 106 | 98 | 115 | 91 | 105 | |
| OV12408 | 20-Jul | 3 | 93 | 141 | 136 | 125 | 120 | 136 | 1.02 |
| | | | 124 | 114 | 101 | 103 | 81 | 129 | |
| OV12405 | 20-Jul | 850 | 107 | 99 | 60 | 70 | 48 | 68 | 1.42 |
| | | | 109 | 121 | 88 | 76 | 66 | 82 | |
| OV12402 | 20-Jul | 1310 | 123 | 104 | 142 | 59 | 72 | 100 | 1.56 |
| | | | 130 | 115 | 146 | 92 | 79 | 84 | |
| OV12599 | 20-Jul | 0.5 | 95 | 105 | 72 | 130 | 68 | 106 | 0.96 |
| | | | 117 | 81 | 97 | 81 | 110 | 96 | |
| OV12508 | 20-Jul | 3 | 208 | 189 | 195 | 173 | 160 | 134 | 1.11 |
| | | | 108 | 93 | 75 | 98 | 113 | 103 | |
| OV12504 | 20-Jul | 1075 | 87 | 80 | 88 | 70 | 77 | 55 | 1.24 |
| | | | 83 | 92 | 75 | 60 | 57 | 87 | |
| OV12503 | 20-Jul | 1140 | 110 | 121 | 75 | 60 | 64 | 60 | 1.71 |
| | | | 118 | 122 | 102 | 72 | 47 | 76 | |
| OV12502 | 20-Jul | 1200 | 135 | 117 | 108 | 104 | 77 | 88 | 1.49 |
| | | | 107 | 138 | 89 | 81 | 70 | 47 | |
| OV12699 | 20-Jul | 0.5 | 105 | 126 | 103 | 94 | 108 | 76 | 1.11 |
| | | | 89 | 92 | 114 | 84 | 114 | 89 | |
| OV12608 | 20-Jul | 3 | 91 | 135 | 119 | 107 | 97 | 125 | 1.10 |
| | | | 99 | 82 | 116 | 77 | 81 | 97 | |
| OV12603 | 20-Jul | 1125 | 95 | 77 | 110 | 91 | 79 | 60 | 1.27 |
| | | | 126 | 142 | 102 | 101 | 83 | 100 | |
| OV12602 | 20-Jul | 1210 | 140 | 119 | 140 | 67 | 61 | 58 | 1.92 |
| | | | 139 | 122 | 163 | 71 | 90 | 82 | |
| OV12799 | 20-Jul | 0.5 | 112 | 93 | 96 | 96 | 64 | 72 | 1.18 |
| | | | 98 | 109 | 112 | 112 | 84 | 99 | |
| OV12708 | 20-Jul | 3 | 105 | 115 | 101 | 95 | 65 | 95 | 1.26 |
| | | | 103 | 139 | 105 | 97 | 91 | 88 | |
| OV12703 | 20-Jul | 1170 | 101 | 96 | 80 | 79 | 62 | 72 | 1.44 |
| | | | 109 | 115 | 106 | 69 | 73 | 67 | |
| OV12899 | 21-Jul | 0.5 | 120 | 102 | 110 | 108 | 122 | 77 | 1.10 |
| | | | 130 | 115 | 91 | 109 | 115 | 76 | |
| OV12808 | 21-Jul | 3 | 104 | 80 | 90 | 80 | 99 | 76 | 1.06 |
| | | | 120 | 118 | 100 | 101 | 110 | 113 | |
| OV12803 | 21-Jul | 1160 | 120 | 107 | 112 | 74 | 71 | 84 | 1.48 |
| | | | 99 | 100 | 141 | 68 | 60 | 102 | |
| OV12999 | 21-Jul | 0.5 | 124 | 66 | 105 | 82 | 89 | 82 | 1.10 |
| | | | 100 | 86 | 78 | 70 | 77 | 107 | |
| OV12907 | 21-Jul | 3 | 85 | 109 | 137 | 75 | 85 | 97 | 1.10 |
| | | | 94 | 77 | 84 | 106 | 76 | 92 | |
| OV13099 | 21-Jul | 0.5 | 88 | 105 | 91 | 91 | 88 | 93 | 1.27 |
| | | | 180 | 176 | 187 | 126 | 145 | 109 | |
| OV13008 | 21-Jul | 3 | 97 | 79 | 128 | 108 | 96 | 111 | 0.87 |
| | | | 90 | 121 | 78 | 128 | 124 | 114 | |
| OV13199 | 21-Jul | 0.5 | 119 | 109 | 100 | 77 | 99 | 87 | 1.21 |
| | | | 158 | 81 | 104 | 75 | 115 | 103 | |
| OV13108 | 21-Jul | 3 | 105 | 125 | 87 | 119 | 104 | 133 | 0.95 |
| | | | 114 | 133 | 105 | 124 | 97 | 130 | |
| OV13399 | 22-Jul | 0.5 | 122 | 131 | 120 | 97 | 135 | 106 | 1.02 |
| | | | 69 | 76 | 60 | 63 | 79 | 88 | |

**FUGRO GEOS
R/V OCEAN VERITAS – WATER QUALITY MEASUREMENT PROGRAM**

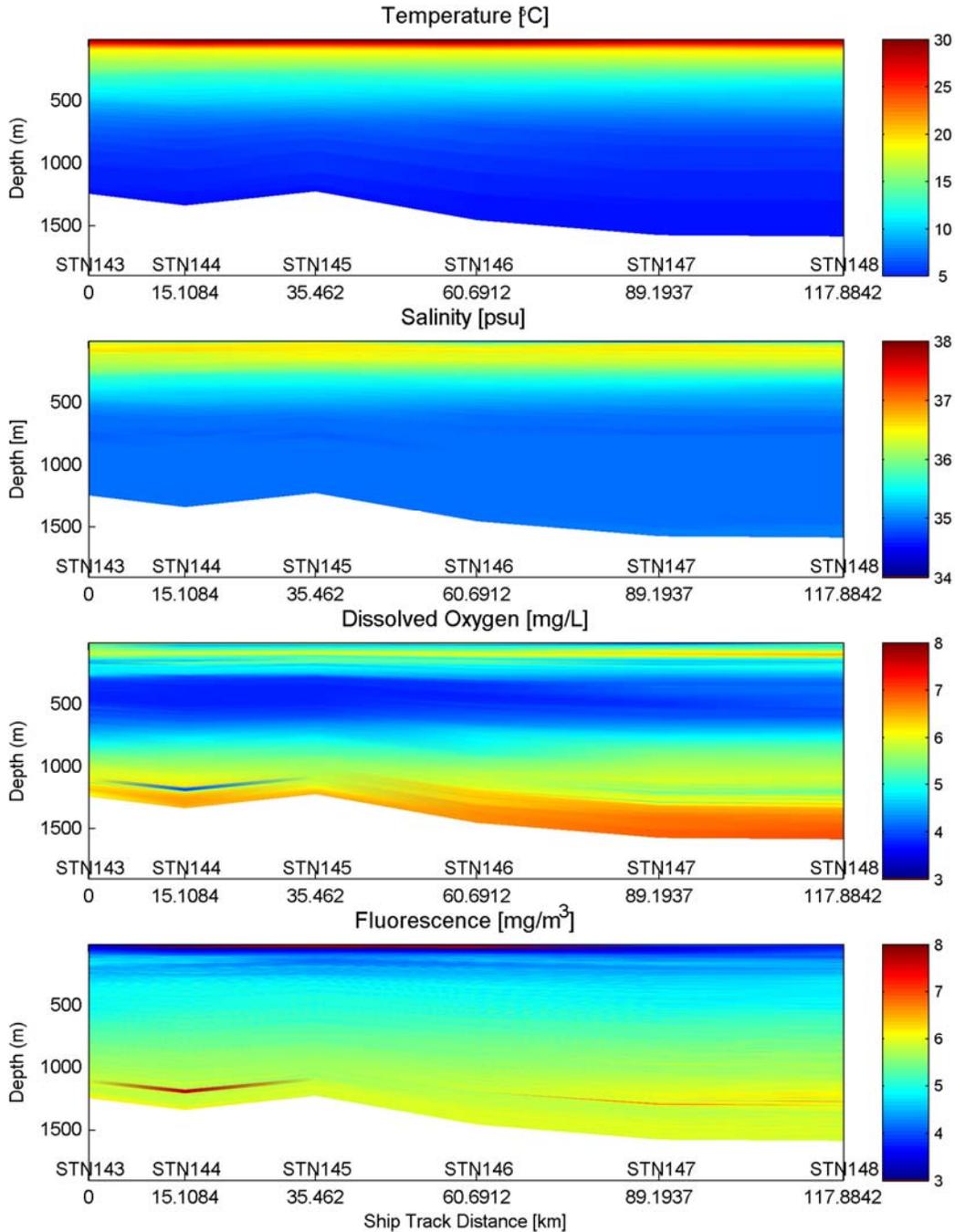


| | | | | | | | | | |
|---------|--------|------|-----|-----|-----|-----|-----|-----|------|
| OV13308 | 22-Jul | 3 | 95 | 99 | 93 | 51 | 71 | 51 | |
| | | | 70 | 89 | 93 | 56 | 63 | 69 | 1.48 |
| OV13304 | 22-Jul | 1140 | 88 | 85 | 86 | 46 | 43 | 60 | |
| | | | 99 | 87 | 81 | 81 | 51 | 75 | 1.48 |
| OV13499 | 22-Jul | 0.5 | 82 | 77 | 69 | 81 | 51 | 75 | |
| | | | 92 | 107 | 78 | 72 | 83 | 64 | 1.19 |
| OV13488 | 22-Jul | 3 | 91 | 70 | 51 | 59 | 65 | 48 | |
| | | | 81 | 94 | 105 | 88 | 83 | 71 | 1.13 |
| OV13403 | 22-Jul | 1100 | 104 | 101 | 99 | 49 | 48 | 95 | |
| | | | 81 | 88 | 69 | 85 | 115 | 67 | 1.18 |
| OV13599 | 22-Jul | 0.5 | 126 | 158 | 153 | 103 | 114 | 156 | |
| | | | 75 | 82 | 78 | 78 | 91 | 88 | 1.07 |
| OV13508 | 22-Jul | 3 | 94 | 96 | 60 | 72 | 60 | 87 | |
| | | | 64 | 73 | 71 | 57 | 83 | 79 | 1.05 |
| OV13699 | 22-Jul | 0.5 | 95 | 110 | 102 | 63 | 60 | 70 | |
| | | | 79 | 80 | 108 | 76 | 59 | 72 | 1.44 |
| OV13608 | 22-Jul | 3 | 79 | 75 | 86 | 83 | 65 | 93 | |
| | | | 110 | 89 | 100 | 118 | 112 | 124 | 0.91 |
| OV13604 | 22-Jul | 1120 | 72 | 115 | 91 | 59 | 70 | 59 | |
| | | | 84 | 116 | 72 | 76 | 49 | 65 | 1.46 |
| OV13603 | 22-Jul | 1291 | 92 | 90 | 80 | 119 | 101 | 82 | |
| | | | 109 | 96 | 81 | 78 | 70 | 87 | 1.02 |
| OV13602 | 22-Jul | 1600 | 79 | 102 | 63 | 58 | 69 | 67 | |
| | | | 69 | 100 | 95 | 59 | 59 | 62 | 1.36 |
| OV13799 | 22-Jul | 0.5 | 90 | 86 | 75 | 70 | 76 | 71 | |
| | | | 62 | 70 | 67 | 74 | 64 | 60 | 1.08 |
| OV13708 | 22-Jul | 3 | 84 | 63 | 69 | 52 | 50 | 86 | |
| | | | 114 | 110 | 101 | 130 | 113 | 100 | 1.02 |
| OV13703 | 22-Jul | 1200 | 134 | 111 | 134 | 102 | 104 | 90 | |
| | | | 177 | 181 | 155 | 104 | 141 | 95 | 1.40 |
| OV13899 | 23-Jul | 0.5 | 115 | 88 | 72 | 69 | 87 | 84 | |
| | | | 97 | 95 | 99 | 97 | 81 | 68 | 1.16 |
| OV13808 | 23-Jul | 3 | 74 | 89 | 99 | 57 | 75 | 68 | |
| | | | 85 | 99 | 91 | 72 | 101 | 63 | 1.23 |
| OV13803 | 23-Jul | 1164 | 120 | 125 | 104 | 63 | 64 | 46 | |
| | | | 122 | 106 | 83 | 46 | 54 | 75 | 1.90 |
| OV13999 | 23-Jul | 0.5 | 123 | 82 | 104 | 83 | 81 | 61 | |
| | | | 140 | 86 | 114 | 56 | 67 | 71 | 1.55 |
| OV13908 | 23-Jul | 3 | 123 | 100 | 140 | 62 | 71 | 93 | |
| | | | 109 | 117 | 101 | 80 | 100 | 71 | 1.45 |
| OV13905 | 23-Jul | 975 | 111 | 106 | 101 | 79 | 50 | 58 | |
| | | | 95 | 106 | 86 | 67 | 55 | 66 | 1.61 |
| OV13903 | 23-Jul | 1210 | 106 | 116 | 109 | 52 | 53 | 60 | |
| | | | 99 | 97 | 101 | 44 | 74 | 63 | 1.82 |
| OV14099 | 23-Jul | 0.5 | 107 | 96 | 115 | 57 | 72 | 49 | |
| | | | 121 | 130 | 104 | 41 | 75 | 66 | 1.87 |
| OV14008 | 23-Jul | 3 | 124 | 83 | 108 | 74 | 61 | 69 | |
| | | | 126 | 124 | 88 | 61 | 61 | 66 | 1.67 |
| OV14003 | 23-Jul | 1190 | 91 | 101 | 88 | 41 | 56 | 50 | |
| | | | 114 | 142 | 120 | 45 | 42 | 55 | 2.27 |
| OV14199 | 23-Jul | 0.5 | 105 | 92 | 90 | 53 | 63 | 85 | |
| | | | 127 | 105 | 116 | 60 | 65 | 37 | 1.66 |
| OV14108 | 23-Jul | 3 | 103 | 119 | 94 | 52 | 45 | 59 | |
| | | | 116 | 106 | 132 | 41 | 79 | 60 | 1.99 |
| OV14102 | 23-Jul | 1140 | 99 | 79 | 114 | 58 | 53 | 38 | |
| | | | 105 | 110 | 122 | 50 | 43 | 71 | 2.01 |
| OV14299 | 23-Jul | 0.5 | 93 | 92 | 96 | 53 | 43 | 64 | |
| | | | 102 | 130 | 104 | 60 | 53 | 45 | 1.94 |
| OV14208 | 23-Jul | 3 | 109 | 100 | 96 | 63 | 49 | 74 | |
| | | | 91 | 95 | 99 | 58 | 65 | 51 | 1.64 |



The following figure presents the CTD, dissolved oxygen and fluorescence data as a color-flooded transect for stations OV143-144-145-146-147-148.

Figure viii: Transect for Stations 143-144-145-146-147-148: Temperature, Salinity, DO and Fluorescence





4. LISST-100: PARTICLE DISTRIBUTION

The *in situ* LISST-100X particle counter measurements were undertaken in conjunction with the CTD profiling at five sampling locations.

Figure ix displays the small droplet mean particle concentration versus particle size from each of the five sites. Figures x to xv display the time series of droplet particle size concentration and the droplet particle concentration versus particle size for each of stations OV143 through OV148.

Figure ix: Stations OV143 to OV148 Small Droplet Mean Particle Concentration versus Particle Size

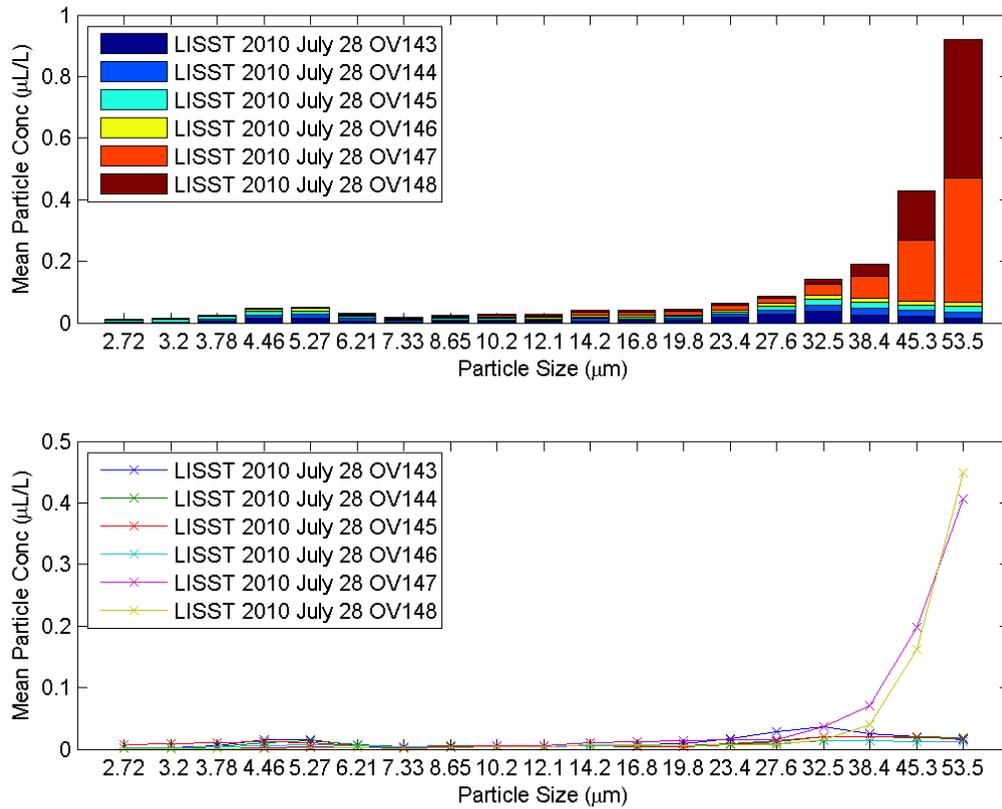




Figure x: Station OV143 Time Series of Small Droplet Particle Size Concentration; Small Droplet Particle Concentration versus Particle Size

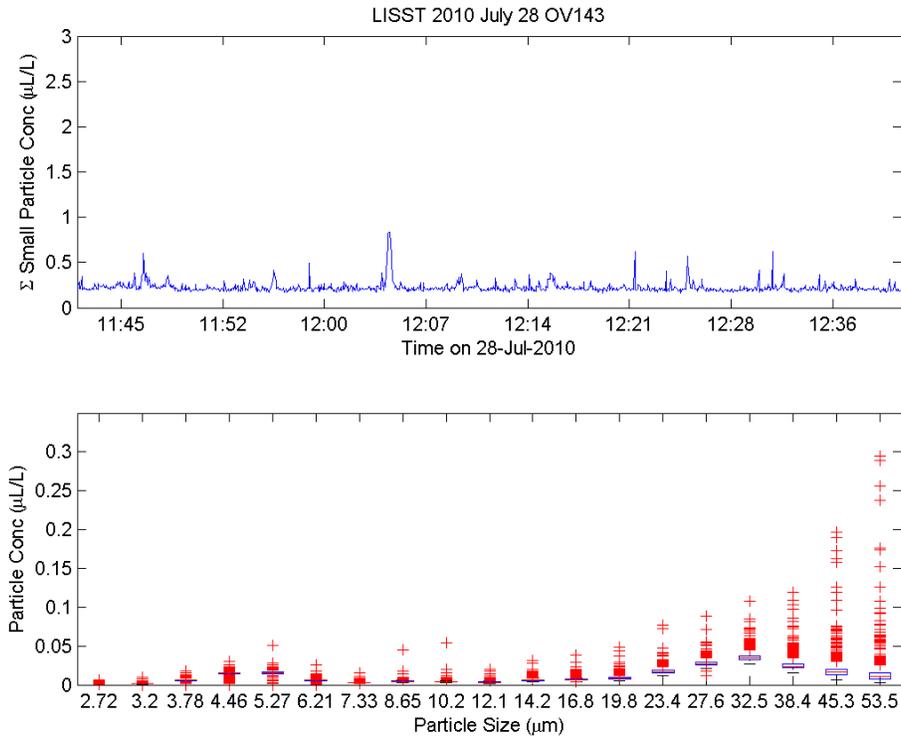


Figure xi: Station OV144 Time Series of Small Droplet Particle Size Concentration; Small Droplet Particle Concentration versus Particle Size

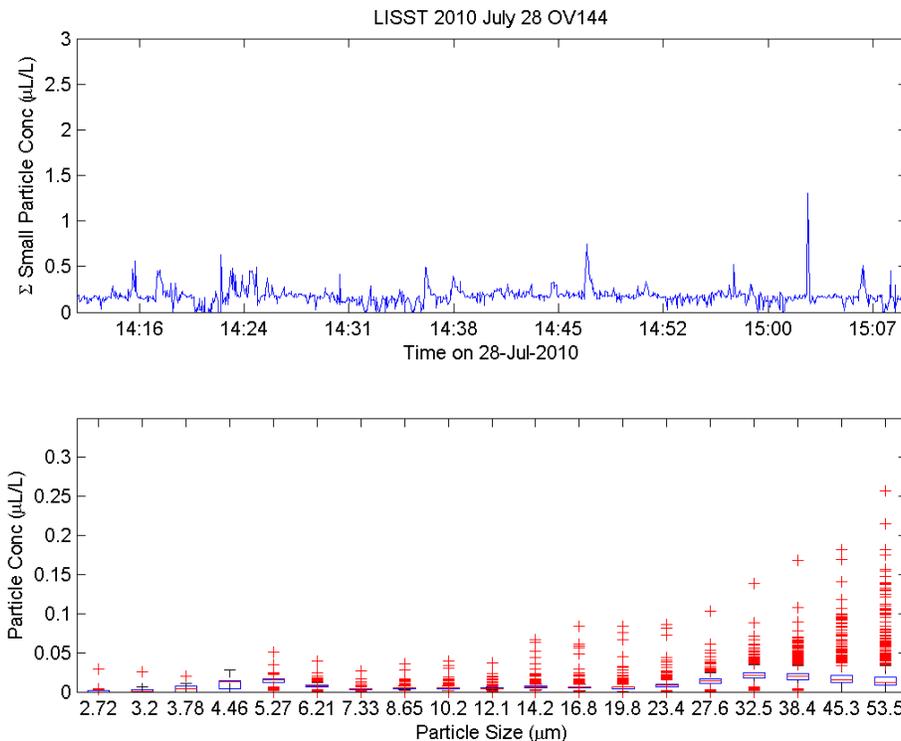




Figure xii: Station OV145 Time Series of Small Droplet Particle Size Concentration; Small Droplet Particle Concentration versus Particle Size

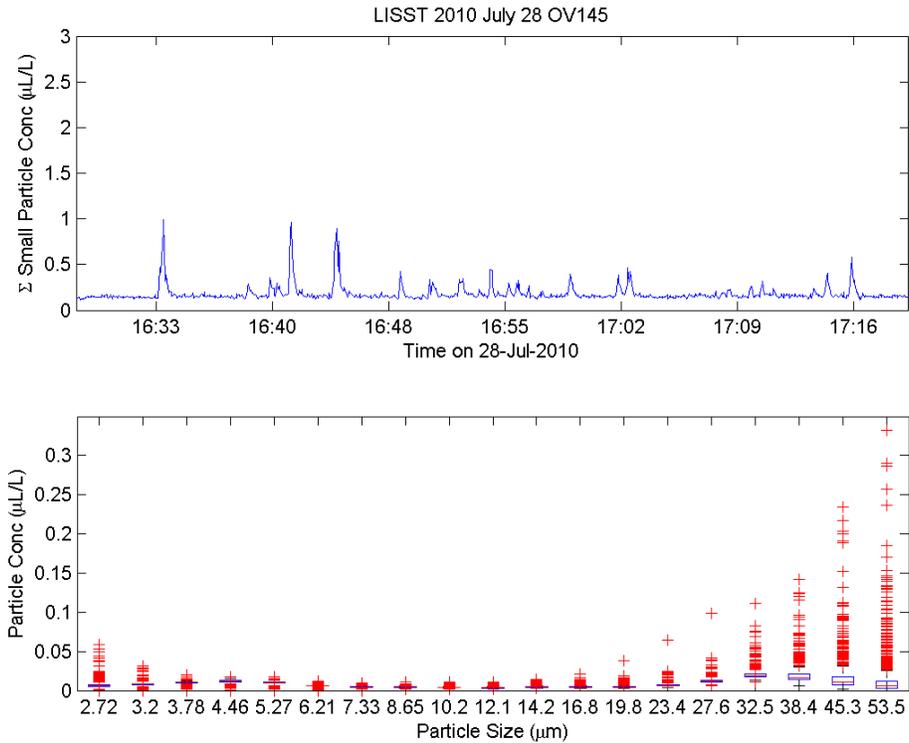


Figure xiii: Station OV146 Time Series of Small Droplet Particle Size Concentration; Small Droplet Particle Concentration versus Particle Size

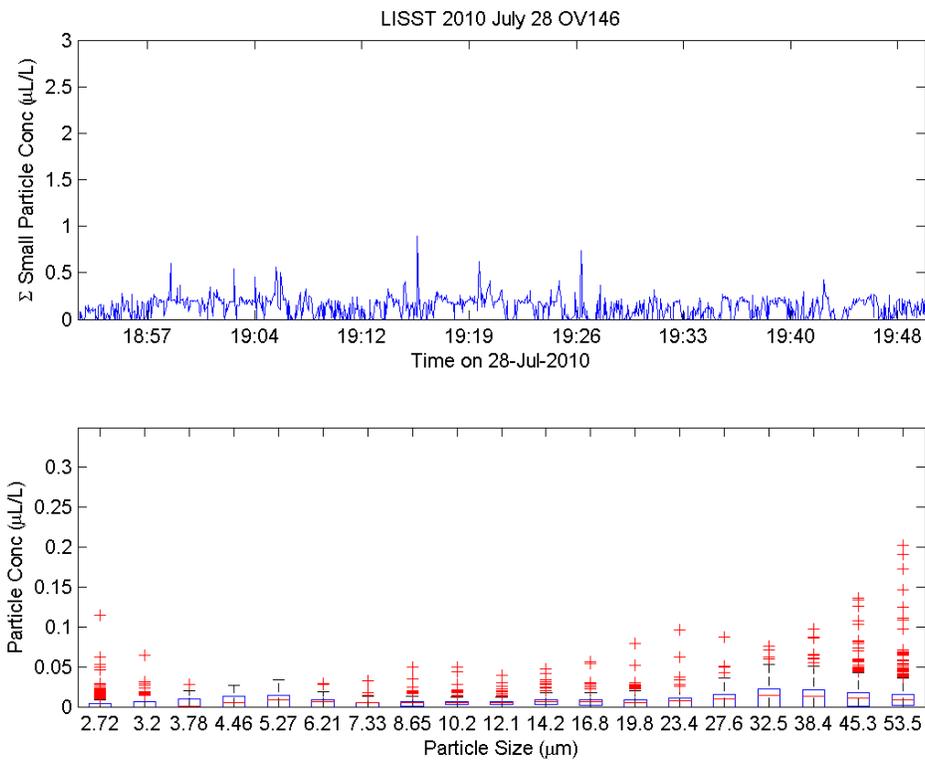




Figure xiv: Station OV147 Time Series of Small Droplet Particle Size Concentration; Small Droplet Particle Concentration versus Particle Size

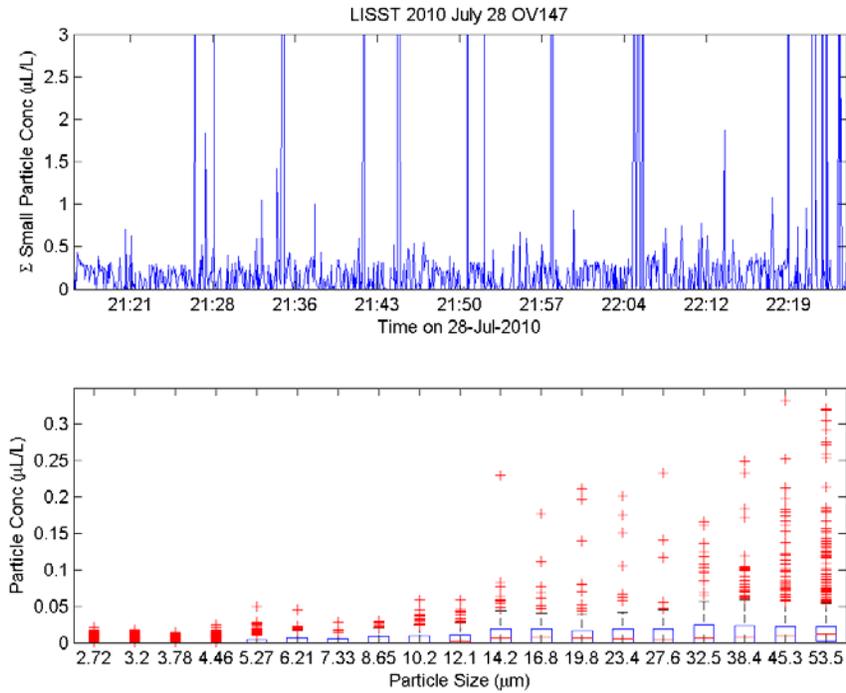
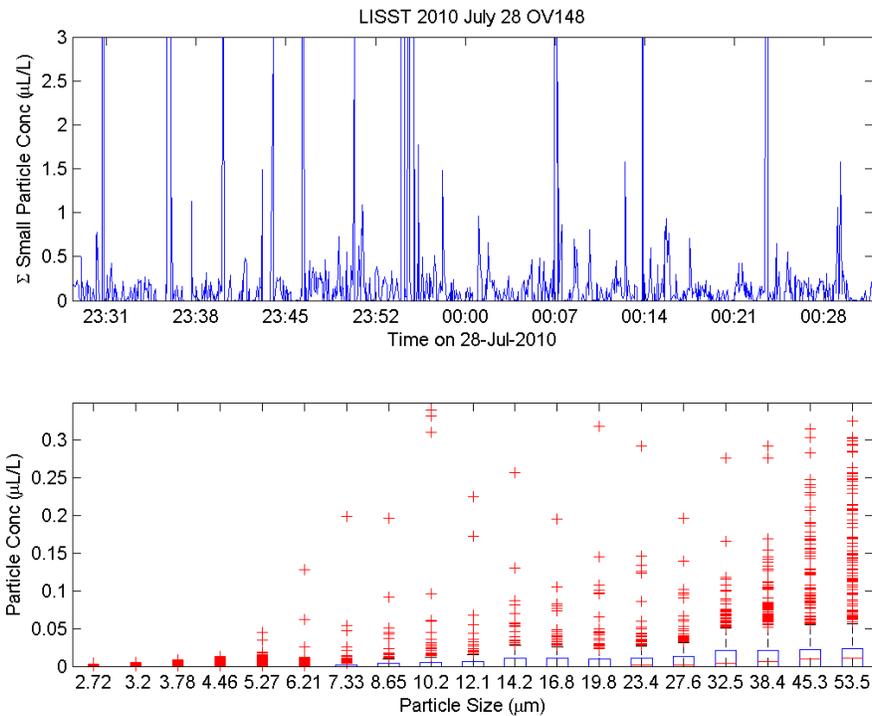


Figure xv: Station OV148 Time Series of Small Droplet Particle Size Concentration; Small Droplet Particle Concentration versus Particle Size





5. WATER SAMPLING

5.1 LISST data

Water samples were collected at six stations for particle size distribution measurements using the LISST-100X particle counter. A total of 102 LISST samples were analyzed, including duplicates. Samples at depths of elevated fluorescence were selected from the CTD trace for fluorescence intensity ratio measurements and analyzed using a Quantech Life Sciences fixed wavelength fluorometer.

For Station OV143, there was a slight elevation in small particles concentrations at 1000, 1130 and 1200m. The *in situ* CTD fluorometer detected a very small subsurface plume at 1130m for this station. For Station OV144, small particles concentrations were relatively high at all depths except 50m. The *in situ* CTD fluorometer detected a subsurface plume at 1190m for Station OV144. For Station OV145, there was a slight elevation in small particles concentrations at 750 and 1100m. The *in situ* CTD fluorometer did not detect a subsurface plume for Station OV145. Small particles concentrations were relatively consistent at all depths for Station OV146. There was no subsurface plume detected by the *in situ* fluorometer for Station OV146. The *in situ* CTD fluorometer detected a very small subsurface plume at 1290m for Station OV147. For Station OV147, there were slightly elevated small particles concentrations near the surface (0.5 and 3m and at 500 to 1350m. For Station OV148, the *in situ* fluorometer detected a very faint subsurface plume at 1270m. There were slightly elevated small particles concentrations near the surface (0.5 and 3m) and at 750 and 1270m for Station OV148.

The results of fluorescence intensity ratios showed that low ratios were observed in both the near surface waters (3m or less) and in the deeper water samples for stations OV143 to OV148. The fluorescence intensity ratios observed for Stations OV143 to OV148 were slightly higher compared to those Stations observed on July 22, 2010.

Figure xvi presents the small droplet (Σ 2.5 - 60 μ m) particle size data and fluorescence intensity ratios for stations OV143 through OV148. The station locations were:

Figure xvi: Station OV143 Average Small Particle Concentrations as a Function of Depth

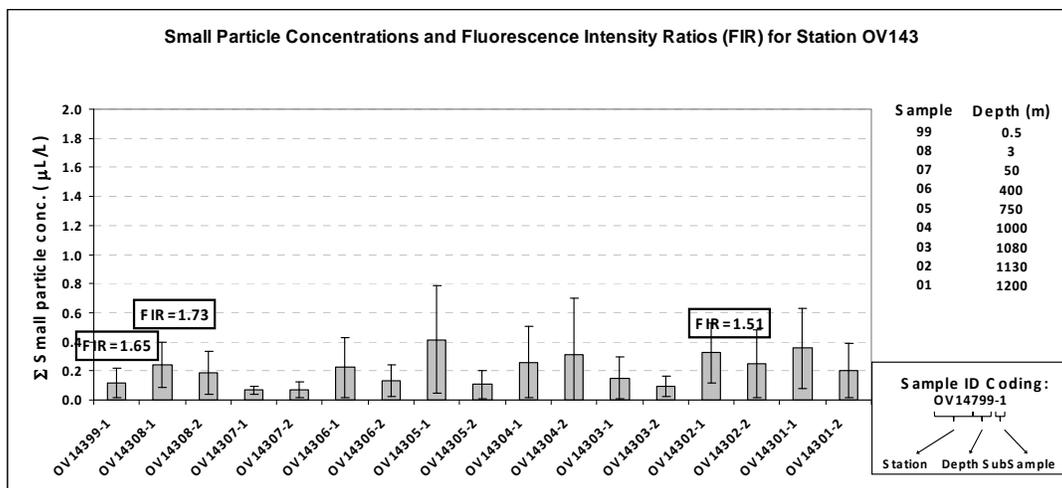




Figure xvii: Station OV144 Average Small Particle Concentrations as a Function of Depth

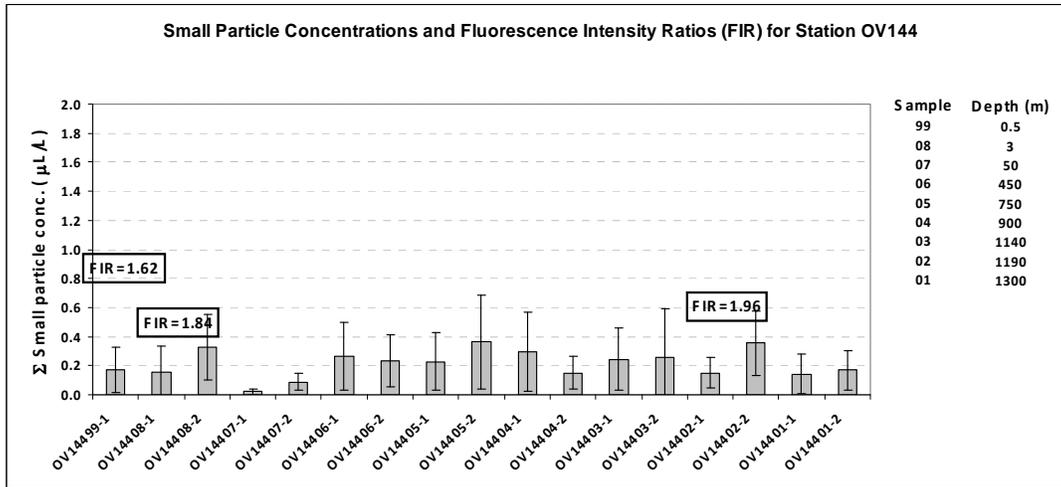


Figure xviii: Station OV145 Average Small Particle Concentrations as a Function of Depth

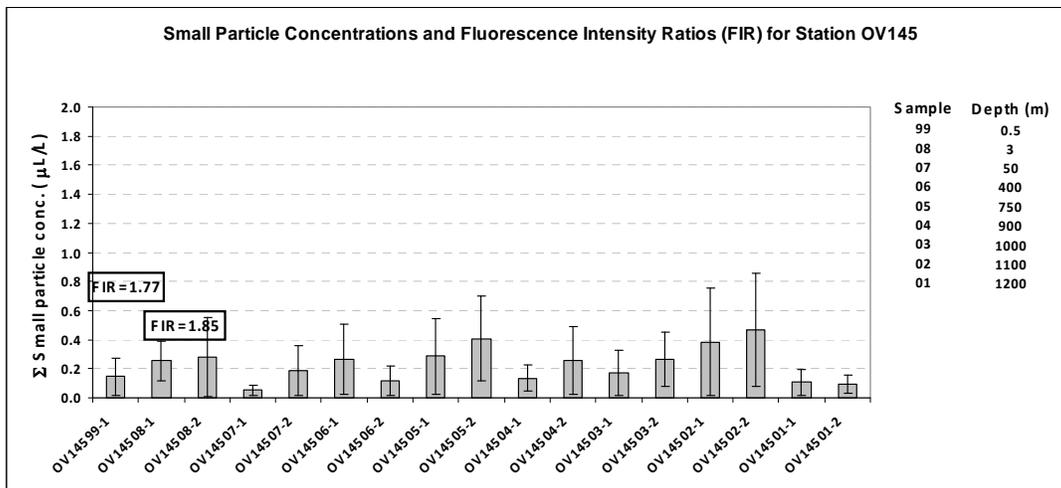


Figure xix: Station OV146 Average Small Particle Concentrations as a Function of Depth

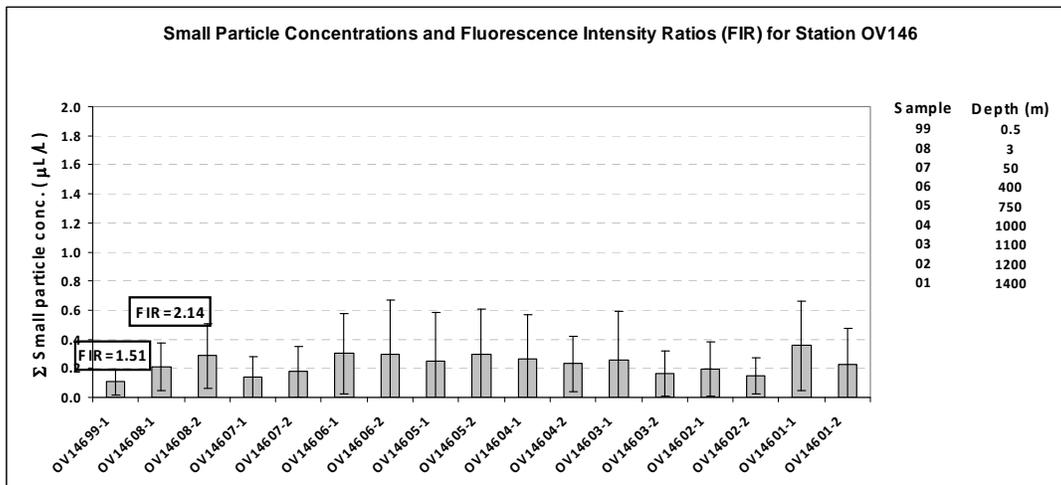




Figure xx: Station OV147 Average Small Particle Concentrations as a Function of Depth

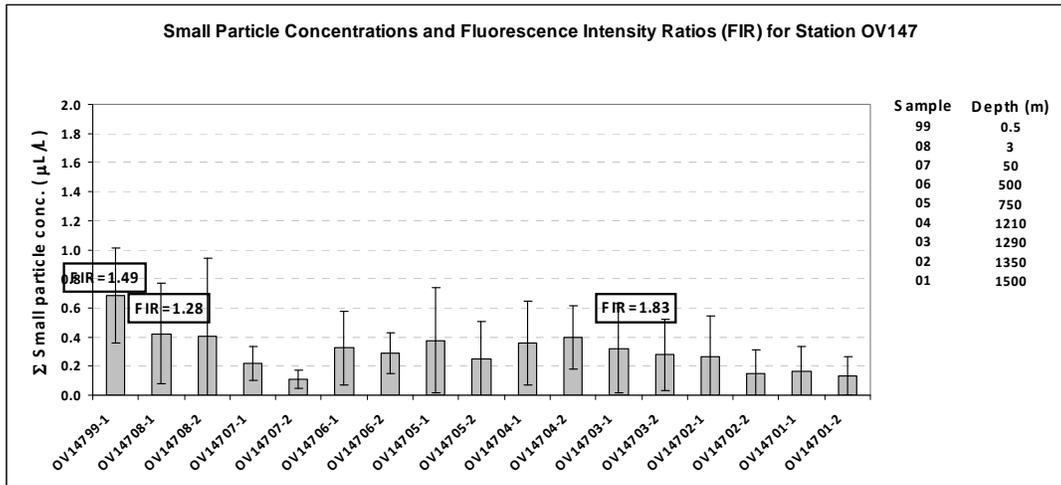
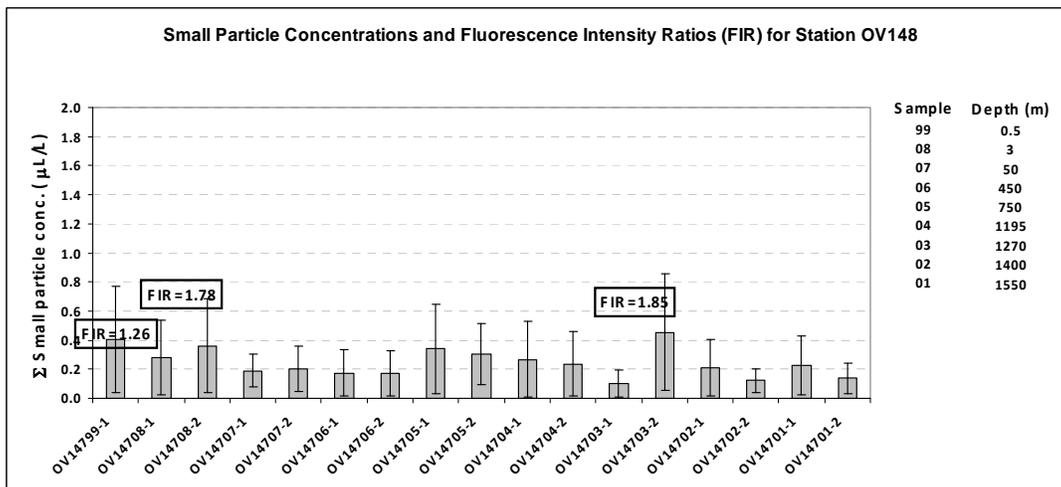


Figure xxi: Station OV148 Average Small Particle Concentrations as a Function of Depth





5.2 Air Quality

Air monitoring was again conducted by CTEH industrial Hygienist, Doug Childress (benzene (1/hr), H₂S (2/hr) and SO₂ (2/hr) During back deck operations by the scientific crew. Measurements showed no significant levels of VOC, benzene, H₂S or SO₂ at any time throughout the sampling effort.

5.3 Aquatic Toxicity Testing

Results from bioassays run on samples from yesterday indicated low mortalities in all samples. The highest treatment mortality, 16.7% was recorded from station OV139 at 1350m, below any fluorescence signal. 10% mortality was recorded between 975 and 1210m and 3.3% mortality was recorded at 50m and 1450m. No relationship was seen between mortalities and depth or fluorescence. Samples from six stations were tested for toxicity today.

| Station | Depth (m) |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| OV143 | 50 | OV144 | 50 | OV145 | 50 | OV146 | 50 | OV147 | 1210 | OV148 | 50 |
| OV143 | 400 | OV144 | 450 | OV145 | 1000 | OV146 | 1100 | OV147 | 1290 | OV148 | 1195 |
| OV143 | 1080 | OV144 | 1140 | OV145 | 1100 | OV146 | 1200 | OV147 | 1350 | OV148 | 1270 |
| OV143 | 1130 | OV144 | 1190 | OV145 | 1200 | OV146 | 1400 | | | | |
| OV143 | 1200 | OV144 | 1300 | | | | | | | | |

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| Sample ID | Depth (Meters) | Sample Type | Dilution | Replicate Number | Test Start Date | Organisms Start | Organisms End Alive |
|---------------------|----------------|-------------|----------|------------------|-----------------|-----------------|---------------------|
| OV138 | 35ppt Control | Control | 0% | 1 | 7/27/2010 | 5 | 5 |
| OV138 | 35ppt Control | Control | 0% | 2 | 7/27/2010 | 5 | 5 |
| OV138 | 35ppt Control | Control | 0% | 3 | 7/27/2010 | 5 | 5 |
| OV138 | 35ppt Control | Control | 0% | 4 | 7/27/2010 | 5 | 4 |
| OV138 | 35ppt Control | Control | 0% | 5 | 7/27/2010 | 5 | 5 |
| OV138 | 35ppt Control | Control | 0% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-11 | 50 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-11 | 50 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-11 | 50 | Treatment | 100% | 3 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-11 | 50 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-11 | 50 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-11 | 50 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-06 | 1000 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-06 | 1000 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-06 | 1000 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-06 | 1000 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-06 | 1000 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-06 | 1000 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-05 | 1164 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-05 | 1164 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-05 | 1164 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-05 | 1164 | Treatment | 100% | 4 | 7/27/2010 | 5 | 3 |
| SW-20100727-OV11-05 | 1164 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-05 | 1164 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-02 | 1300 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-02 | 1300 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-02 | 1300 | Treatment | 100% | 3 | 7/27/2010 | 5 | 3 |
| SW-20100727-OV11-02 | 1300 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-02 | 1300 | Treatment | 100% | 5 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-02 | 1300 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| OV139 | 35ppt Control | Control | 0% | 1 | 7/27/2010 | 5 | 5 |
| OV139 | 35ppt Control | Control | 0% | 2 | 7/27/2010 | 5 | 5 |
| OV139 | 35ppt Control | Control | 0% | 3 | 7/27/2010 | 5 | 4 |
| OV139 | 35ppt Control | Control | 0% | 4 | 7/27/2010 | 5 | 5 |
| OV139 | 35ppt Control | Control | 0% | 5 | 7/27/2010 | 5 | 5 |
| OV139 | 35ppt Control | Control | 0% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-19 | 50 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-19 | 50 | Treatment | 100% | 2 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-19 | 50 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-19 | 50 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-19 | 50 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-19 | 50 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-17 | 975 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-17 | 975 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |

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| | | | | | | | |
|---------------------|---------------|-----------|------|---|-----------|---|---|
| SW-20100727-OV11-17 | 975 | Treatment | 100% | 3 | 7/27/2010 | 5 | 3 |
| SW-20100727-OV11-17 | 975 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-17 | 975 | Treatment | 100% | 5 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-17 | 975 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-16 | 1050 | Treatment | 100% | 1 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-16 | 1050 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-16 | 1050 | Treatment | 100% | 3 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-16 | 1050 | Treatment | 100% | 4 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-16 | 1050 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-16 | 1050 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-15 | 1210 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-15 | 1210 | Treatment | 100% | 2 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-15 | 1210 | Treatment | 100% | 3 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-15 | 1210 | Treatment | 100% | 4 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-15 | 1210 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-15 | 1210 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-14 | 1350 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-14 | 1350 | Treatment | 100% | 2 | 7/27/2010 | 5 | 3 |
| SW-20100727-OV11-14 | 1350 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-14 | 1350 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-14 | 1350 | Treatment | 100% | 5 | 7/27/2010 | 5 | 3 |
| SW-20100727-OV11-14 | 1350 | Treatment | 100% | 6 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-13 | 1450 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-13 | 1450 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-13 | 1450 | Treatment | 100% | 3 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-13 | 1450 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-13 | 1450 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-13 | 1450 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| OV140 | 35ppt Control | Control | 0% | 1 | 7/27/2010 | 5 | 5 |
| OV140 | 35ppt Control | Control | 0% | 2 | 7/27/2010 | 5 | 4 |
| OV140 | 35ppt Control | Control | 0% | 3 | 7/27/2010 | 5 | 5 |
| OV140 | 35ppt Control | Control | 0% | 4 | 7/27/2010 | 5 | 5 |
| OV140 | 35ppt Control | Control | 0% | 5 | 7/27/2010 | 5 | 5 |
| OV140 | 35ppt Control | Control | 0% | 6 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-29 | 50 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-29 | 50 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-29 | 50 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-29 | 50 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-29 | 50 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-29 | 50 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-24 | 1000 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-24 | 1000 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-24 | 1000 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-24 | 1000 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-24 | 1000 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-24 | 1000 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-23 | 1190 | Treatment | 100% | 1 | 7/27/2010 | 5 | 3 |

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| | | | | | | | |
|---------------------|---------------|-----------|------|---|-----------|---|---|
| SW-20100727-OV11-23 | 1190 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-23 | 1190 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-23 | 1190 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-23 | 1190 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-23 | 1190 | Treatment | 100% | 6 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-22 | 1300 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-22 | 1300 | Treatment | 100% | 2 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-22 | 1300 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-22 | 1300 | Treatment | 100% | 4 | 7/27/2010 | 5 | 3 |
| SW-20100727-OV11-22 | 1300 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-22 | 1300 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| OV141 | 35ppt Control | Control | 0% | 1 | 7/27/2010 | 5 | 5 |
| OV141 | 35ppt Control | Control | 0% | 2 | 7/27/2010 | 5 | 5 |
| OV141 | 35ppt Control | Control | 0% | 3 | 7/27/2010 | 5 | 5 |
| OV141 | 35ppt Control | Control | 0% | 4 | 7/27/2010 | 5 | 5 |
| OV141 | 35ppt Control | Control | 0% | 5 | 7/27/2010 | 5 | 5 |
| OV141 | 35ppt Control | Control | 0% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-38 | 50 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-38 | 50 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-38 | 50 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-38 | 50 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-38 | 50 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-38 | 50 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-36 | 700 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-36 | 700 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-36 | 700 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-36 | 700 | Treatment | 100% | 4 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-36 | 700 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-36 | 700 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-34 | 1000 | Treatment | 100% | 1 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-34 | 1000 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-34 | 1000 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-34 | 1000 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-34 | 1000 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-34 | 1000 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-33 | 1140 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-33 | 1140 | Treatment | 100% | 2 | 7/27/2010 | 5 | 3 |
| SW-20100727-OV11-33 | 1140 | Treatment | 100% | 3 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-33 | 1140 | Treatment | 100% | 4 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-33 | 1140 | Treatment | 100% | 5 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-33 | 1140 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-32 | 1250 | Treatment | 100% | 1 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-32 | 1250 | Treatment | 100% | 2 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-32 | 1250 | Treatment | 100% | 3 | 7/27/2010 | 5 | 4 |
| SW-20100727-OV11-32 | 1250 | Treatment | 100% | 4 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-32 | 1250 | Treatment | 100% | 5 | 7/27/2010 | 5 | 5 |
| SW-20100727-OV11-32 | 1250 | Treatment | 100% | 6 | 7/27/2010 | 5 | 5 |

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| | | | | | | | |
|---------------------|---------------|-----------|------|---|-----------|---|---|
| OV142 | 35ppt Control | Control | 0% | 1 | 7/28/2010 | 5 | 5 |
| OV142 | 35ppt Control | Control | 0% | 2 | 7/28/2010 | 5 | 5 |
| OV142 | 35ppt Control | Control | 0% | 3 | 7/28/2010 | 5 | 5 |
| OV142 | 35ppt Control | Control | 0% | 4 | 7/28/2010 | 5 | 5 |
| OV142 | 35ppt Control | Control | 0% | 5 | 7/28/2010 | 5 | 5 |
| OV142 | 35ppt Control | Control | 0% | 6 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-47 | 3 | Treatment | 100% | 1 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-47 | 3 | Treatment | 100% | 2 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-47 | 3 | Treatment | 100% | 3 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-47 | 3 | Treatment | 100% | 4 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-47 | 3 | Treatment | 100% | 5 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-47 | 3 | Treatment | 100% | 6 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-44 | 700 | Treatment | 100% | 1 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-44 | 700 | Treatment | 100% | 2 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-44 | 700 | Treatment | 100% | 3 | 7/28/2010 | 5 | 4 |
| SW-20100727-OV11-44 | 700 | Treatment | 100% | 4 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-44 | 700 | Treatment | 100% | 5 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-44 | 700 | Treatment | 100% | 6 | 7/28/2010 | 5 | 4 |
| SW-20100727-OV11-42 | 900 | Treatment | 100% | 1 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-42 | 900 | Treatment | 100% | 2 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-42 | 900 | Treatment | 100% | 3 | 7/28/2010 | 5 | 3 |
| SW-20100727-OV11-42 | 900 | Treatment | 100% | 4 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-42 | 900 | Treatment | 100% | 5 | 7/28/2010 | 5 | 3 |
| SW-20100727-OV11-42 | 900 | Treatment | 100% | 6 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-41 | 1087 | Treatment | 100% | 1 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-41 | 1087 | Treatment | 100% | 2 | 7/28/2010 | 5 | 4 |
| SW-20100727-OV11-41 | 1087 | Treatment | 100% | 3 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-41 | 1087 | Treatment | 100% | 4 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-41 | 1087 | Treatment | 100% | 5 | 7/28/2010 | 5 | 5 |
| SW-20100727-OV11-41 | 1087 | Treatment | 100% | 6 | 7/28/2010 | 5 | 5 |



6. ANTICIPATED WORK SCOPE FOR FUTURE SAMPLING

The R/V Ocean Veritas is en route to Port Fourchon to obtain supplies, drop off water samples, and perform a crew change.