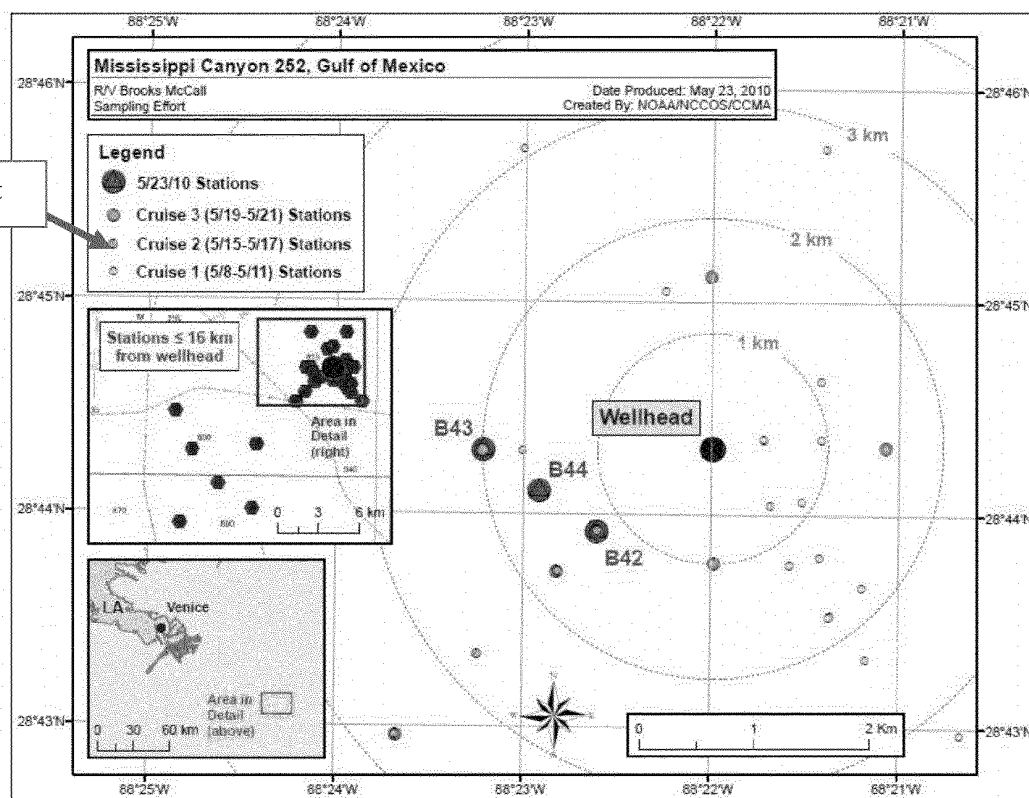


## Research Vessel Brooks McCall

### Monitoring Water Quality and Chemistry in the vicinity of the MC252 Oil Spill Location

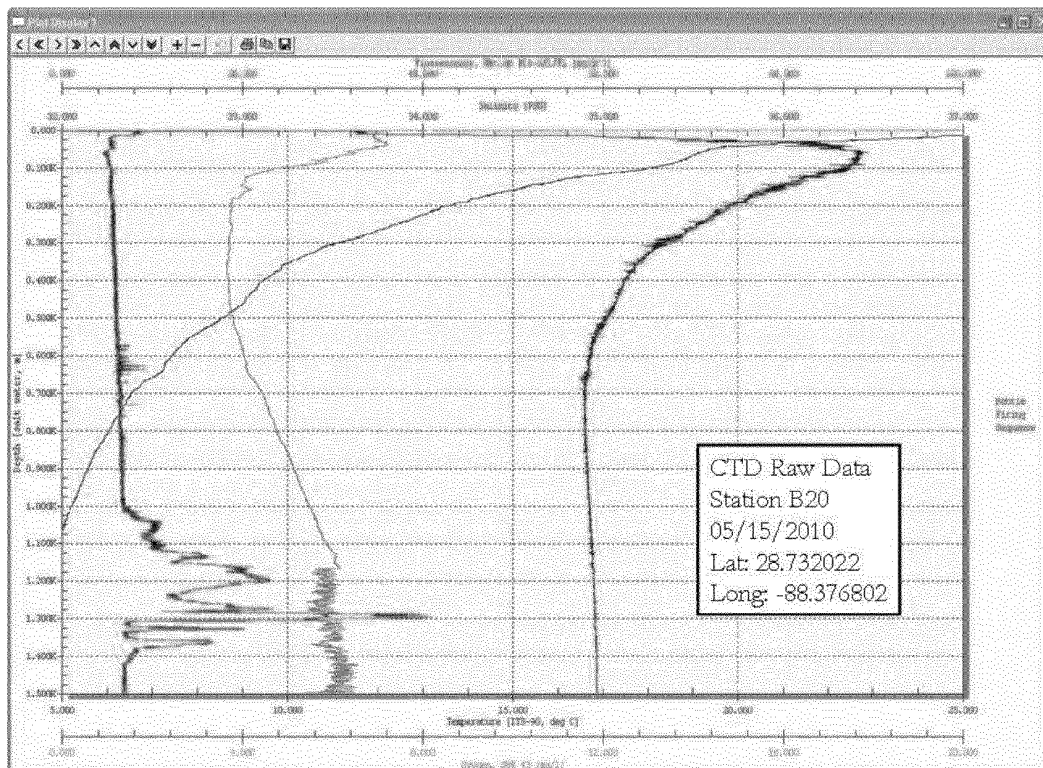
Cruise #2 May 15<sup>th</sup> – 18<sup>th</sup> 2010



These data are being collected to analyze the water column near the MC252 oil spill for Hydrocarbon and Dissolved Oxygen content, and Toxicity.

Summary Table Cruise 2	Number of Samples With :-		
Total CTD Runs	Significant Hydrocarbon Content	Dissolved Oxygen below Specified Limit	Toxicity Indicated
9	0	0	No Available Data

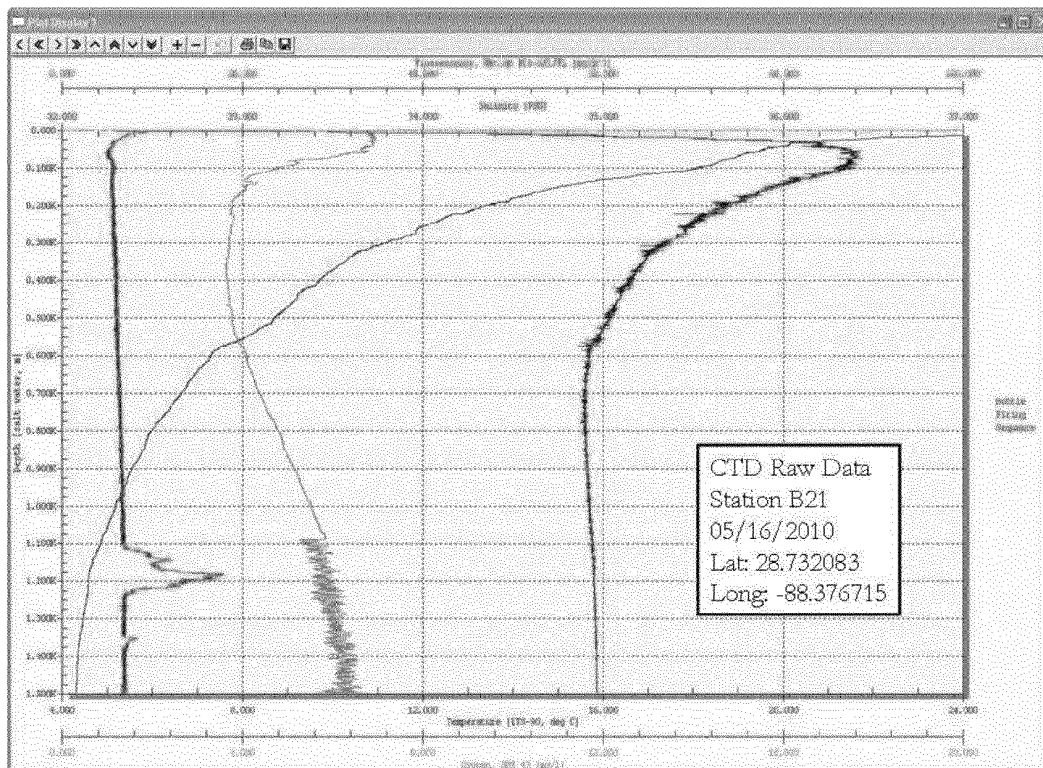
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B20</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	41 parts per <u>billion</u>	1290 meters 4231 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.7 ml/l	375 meters 1230 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

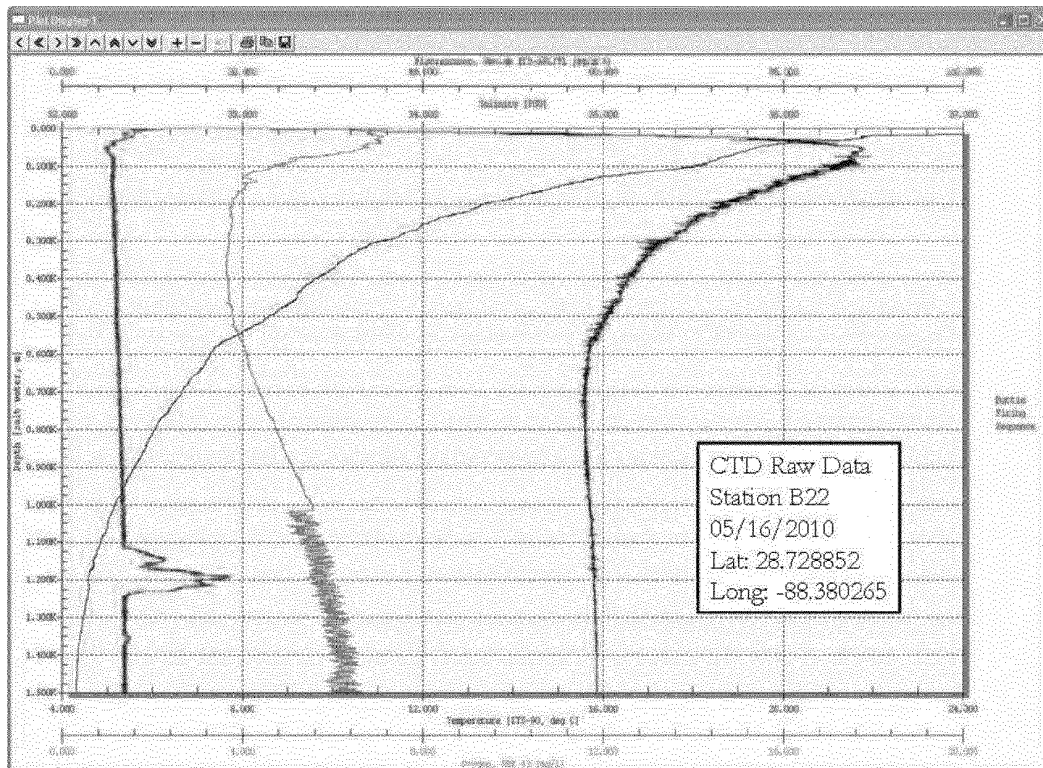
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B21</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	18 parts per <u>Billion</u>	1280 meters 4200 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.7 ml/l	375 meters 1230 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

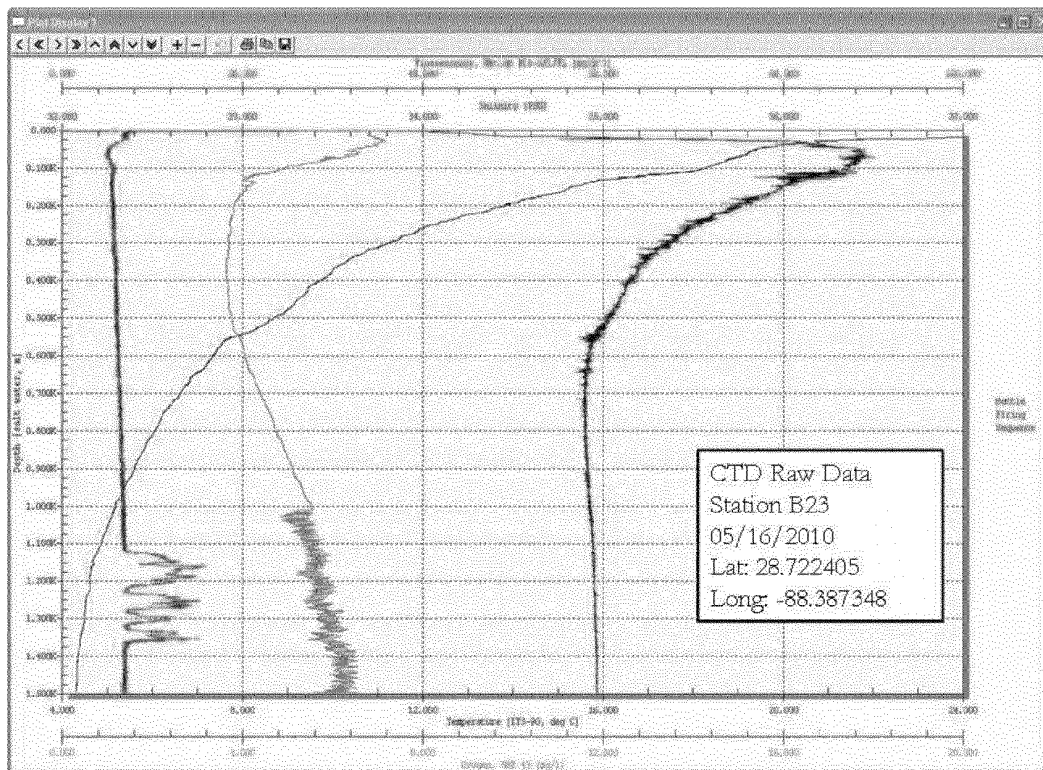
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B22</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	19 parts per <u>billion</u>	1190 meters 3904 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.6 ml/l	400 meters 1312 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

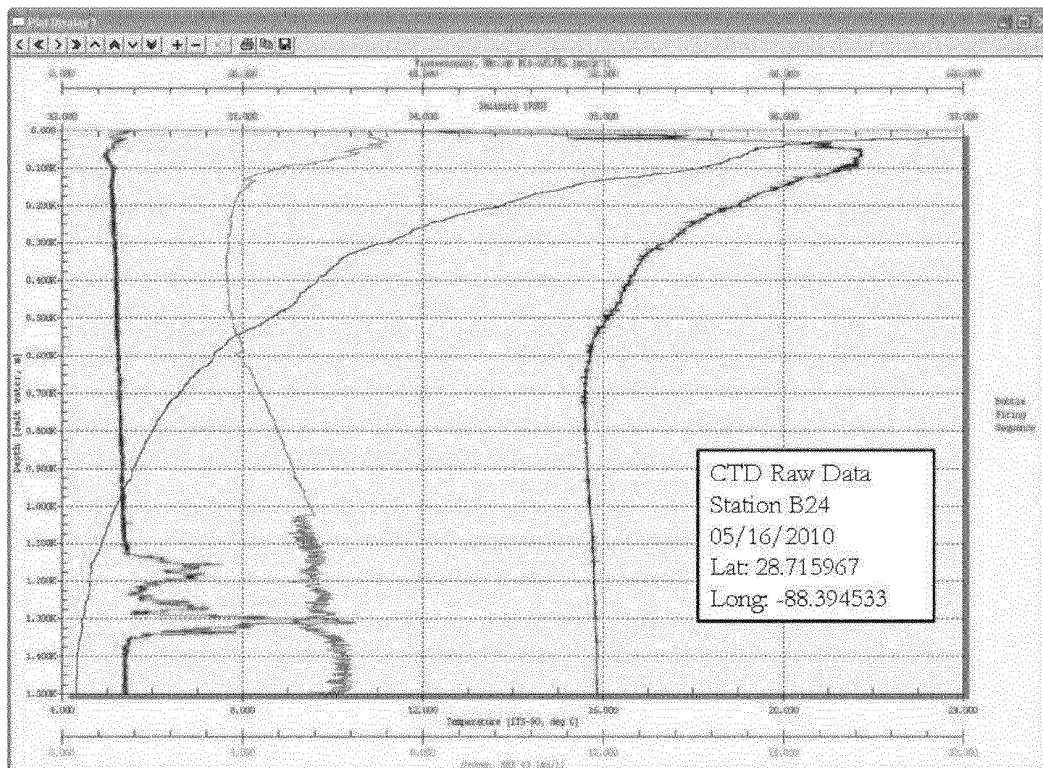
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B23</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	16 parts per <u>billion</u>	1170 meters 3839 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.6 ml/l	370 meters 1214 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

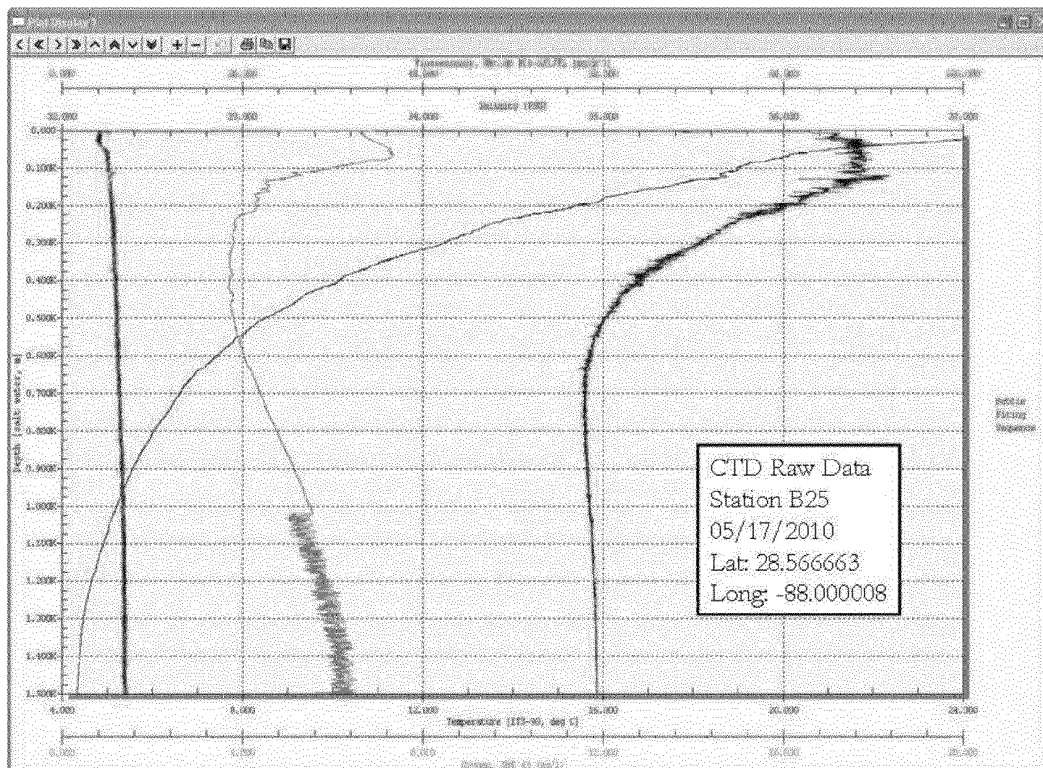
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B24</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	33 parts per <u>billion</u>	1300 meters 4265 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.7 ml/l	370 meters 1214 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

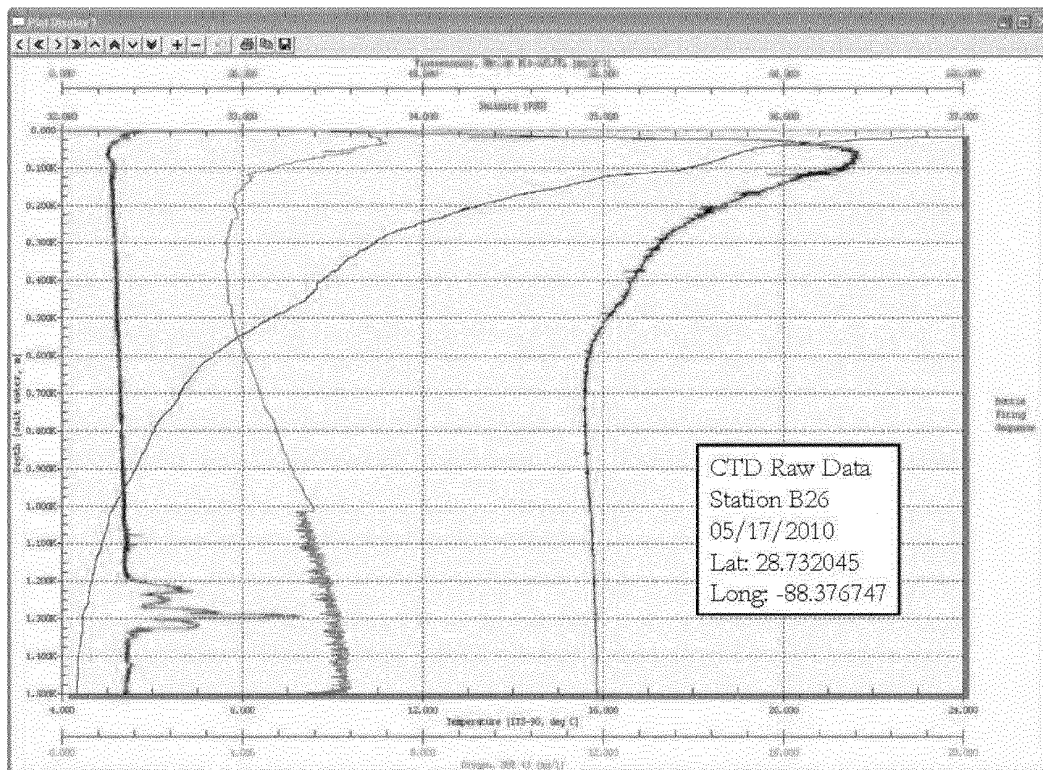
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B25</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	No Anomaly 8 parts per billion background	N/A	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.7 ml/l		
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

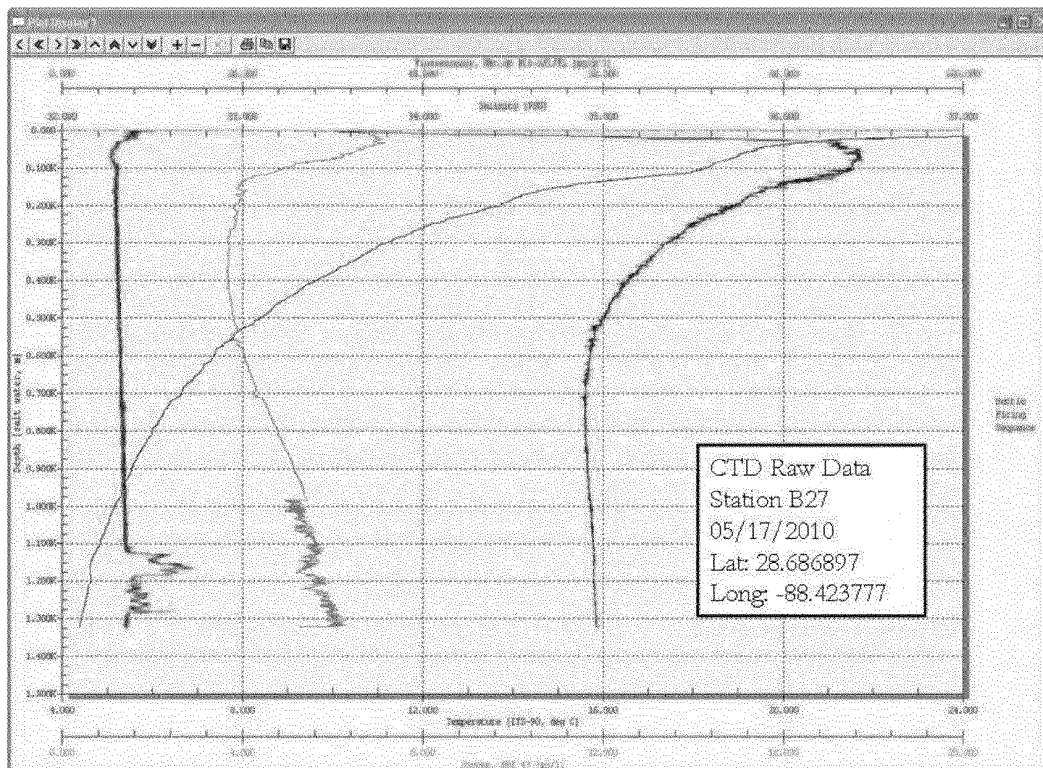
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B26</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	27 parts per <u>billion</u>	1280 meters 4199 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.6 ml/l	320 meters 1050 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

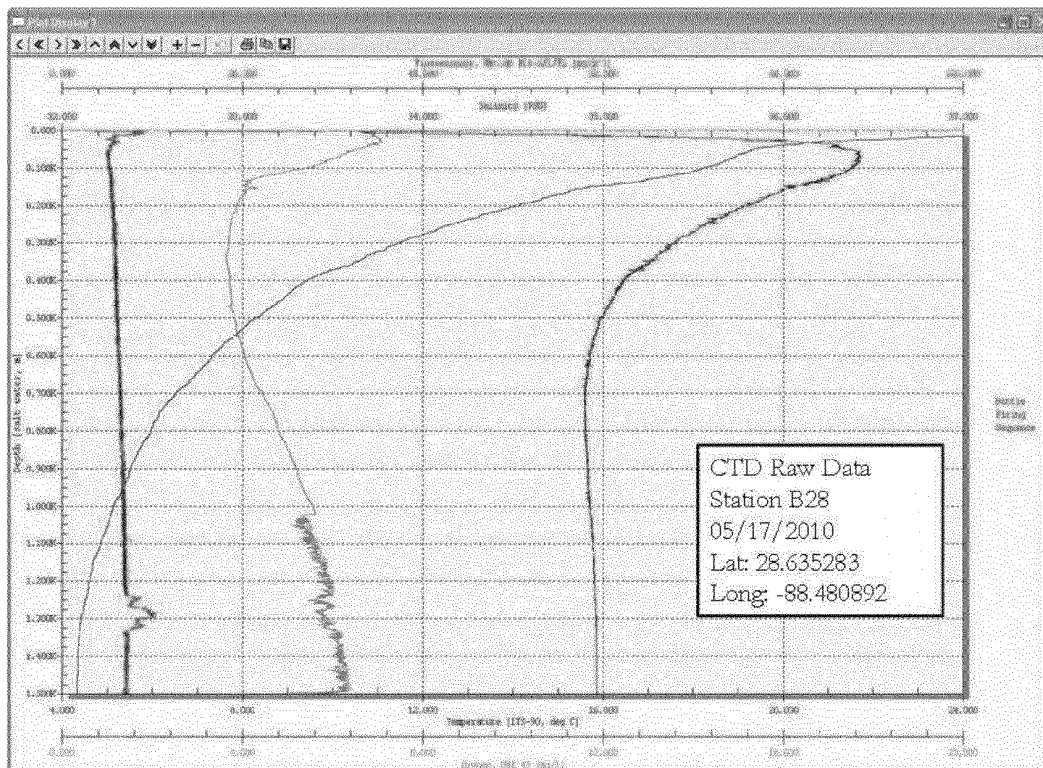
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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B27</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	14 parts per <u>billion</u>	1270 meters 4167 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.7 ml/l	350 meters 1148 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand

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Conductivity, Temperature Depth (CTD) Sensor Information <b>Station B28</b>				
Measurement	Reference Point	Value from Station	Depth below sea level	Status
Hydrocarbon Concentration in Water Maximum Fluorometry Reading (Note #1)	29 parts per million	11 parts per <u>billion</u>	1290 meters 4232 feet	
Minimum Dissolved Oxygen ml/l (Note #2)	2 ml/l	3.7 ml/l	350 meters 1148 feet	
Toxicity Results	No Available Data			
Data Source	Brooks McCall Cruise Science team - NOAA, EPA, & BP representatives on board			

Sources and References
Note #1 As a reference point, The EPA NPDES (National Pollutant Discharge Effluent Standard) permits for Offshore Gulf of Mexico installations contain a NOT TO EXCEED limit of 42 mg/L (42 parts per million) on a daily basis AND a NOT TO EXCEED limit of 29 mg/L per day (29 parts per million) on a monthly basis.
Note #2. 2 milliliters per Liter ( 2 parts per million) is the lower limit for Dissolved Oxygen specified by the applicable documents controlling the use of dispersant in subsea injection for the MC 252 oil spill.
Note #3. Green Curve is Fluorescence on a scale of 0 to 100 milligrams per cubic meter (0 to 100 parts per billion) Grey Curve is Dissolved Oxygen on a scale of 0 to 20 milliliters per Liter Blue curve is Temperature on a scale of 4 to 24 degrees Centigrade (39 to 75 degrees Fahrenheit) Red Curve is Salinity on a scale of 32 to 37 parts per thousand