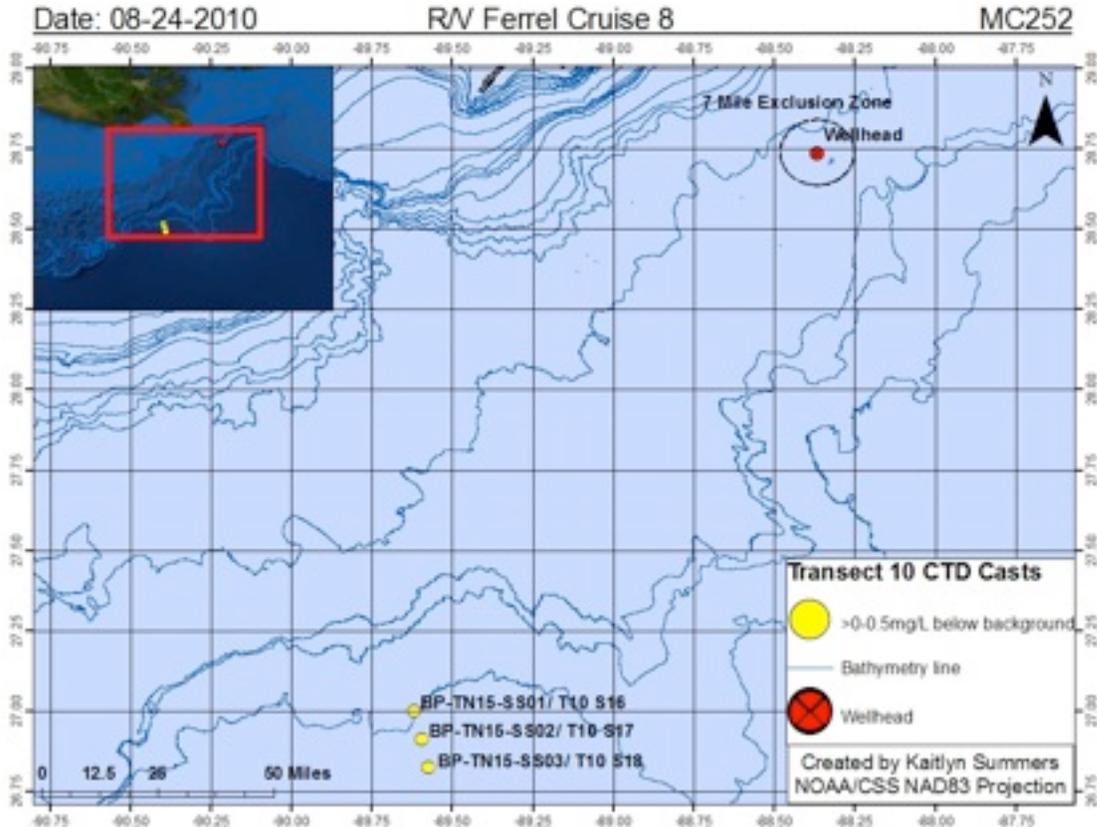


**R/V Ferrel
Francine Reid**

1. Safety Meeting – 6:30am
2. Arrived at sampling station – 7:00am
3. Sampling begins - 7:00am
4. Three stations were sampled today with four samples per station, including surface samples.
5. Hearn = DNA, RNA, PLFA (MoBio filter)
Fran = AODC, VOA Analysis, Nutrient Chemistry, Uncontaminated plume depth water, SIP, Culturing, PLFA (Sterivex filter)
6. NOTE: It rained off and on throughout the day, made sure to keep rain water out of samples. Surface samples have been taking longer to filter. Hearn often cut off the surface filtering once it took about 20 mins for 100mL. That usually ended up totally about 3000mL instead of 4000mL.
7. Weather conditions: Air Temperature 87 degrees Fahrenheit, seas 1-2ft

Sampling Nomenclature:

SW-YYYYMMDD-VesselMission#-SampleID
BP-TransectNumber##-SamplingSite##

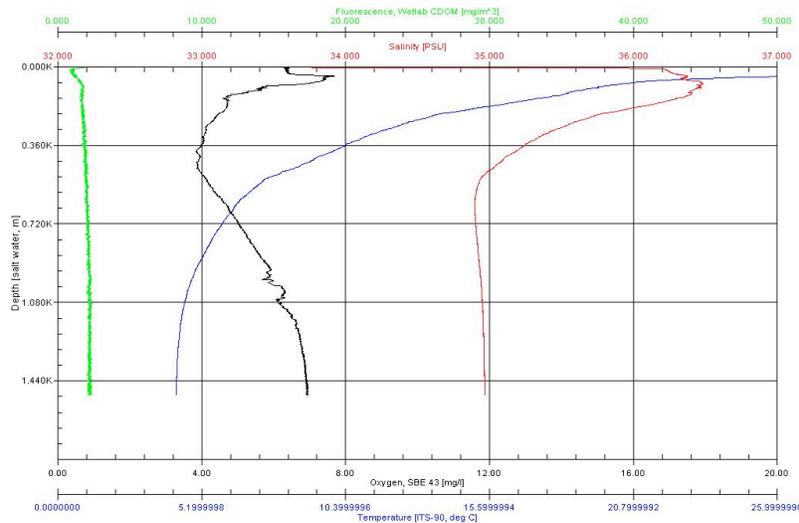
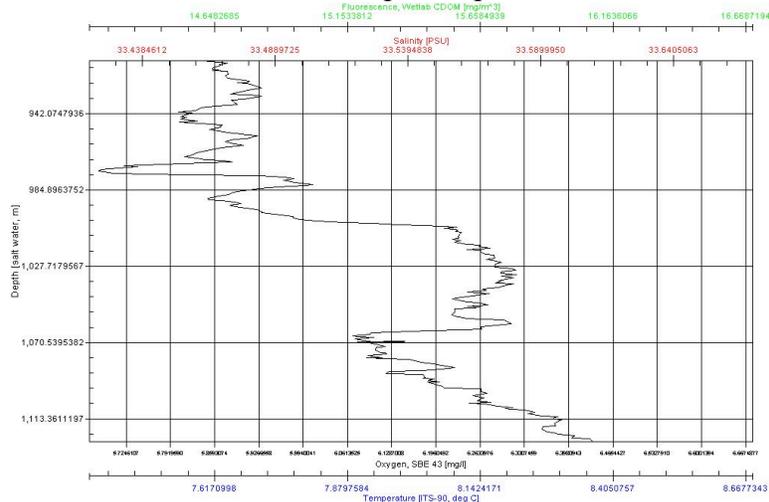


First station

SW-20100824-FER9-xx

BP-TN15-SS01

- 123 miles SW from wellhead.
- DO decline with two depressions of 0.2 mg/l at 975m and 1040m. Total CTD cast depth 1500m.
- Took samples from both DO-dips to make a total of 5 samples from this site. The other samplers only took sample from the 975m dip.

**Close up of Dip**

1. SW-20100824-FER9-01 (Surface)
BP-TN15-SS01

- DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry

2. SW-20100824-FER9-**02** (1200m)
BP-TN15-SS01
 - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry

3. SW-20100824-FER9-**04** (1075m)
BP-TN15-SS01
 - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry

4. SW-20100824-FER9-**06** (975m)
BP-TN15-SS01
 - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA, SIP, Nutrient Chemistry

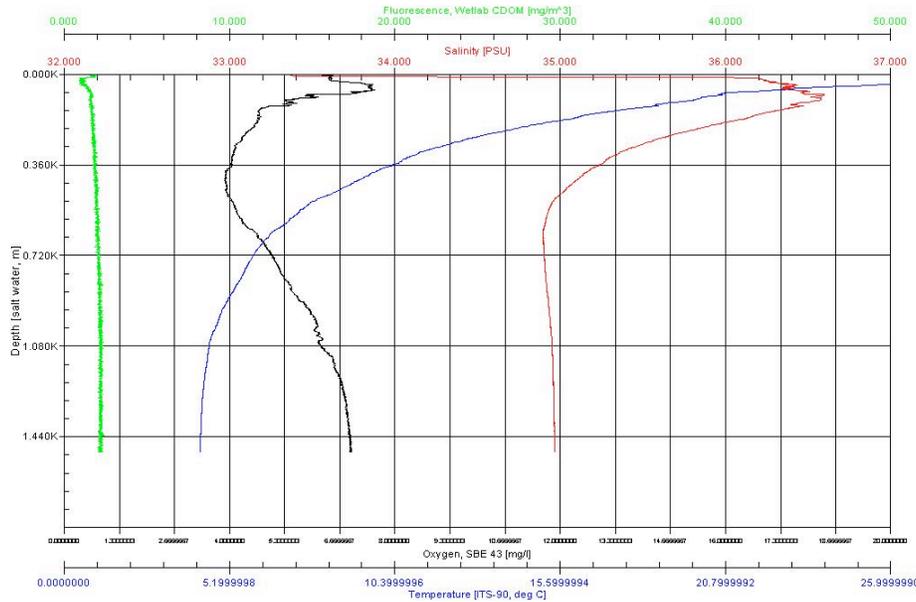
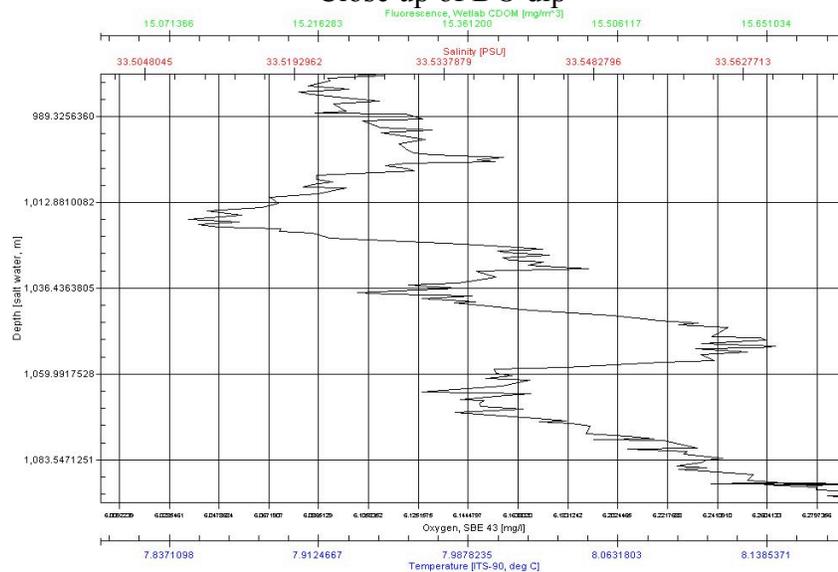
5. SW-20100824-FER9-**08** (850m)
BP-TN15-SS01
 - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA, SIP, Nutrient Chemistry

Second station

SW-20100824-FER9-xx

BP-TN15-SS02

- 127 miles SW of wellhead.
- DO decline with three depressions of 0.1 mg/l at 1020m, 1060m, and <0.1 mg/l at 1036m. Total CTD cast depth 1500m.
- The bottom spike was very broad.
- It rained during the collection of water.

**Close up of DO dip**

6. SW-20100824-FER9-09 (surface)

BP-TN15-SS02

- DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP

7. SW-20100824-FER9-**10** (1200m)
BP-TN15-SS02
 - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry, SIP

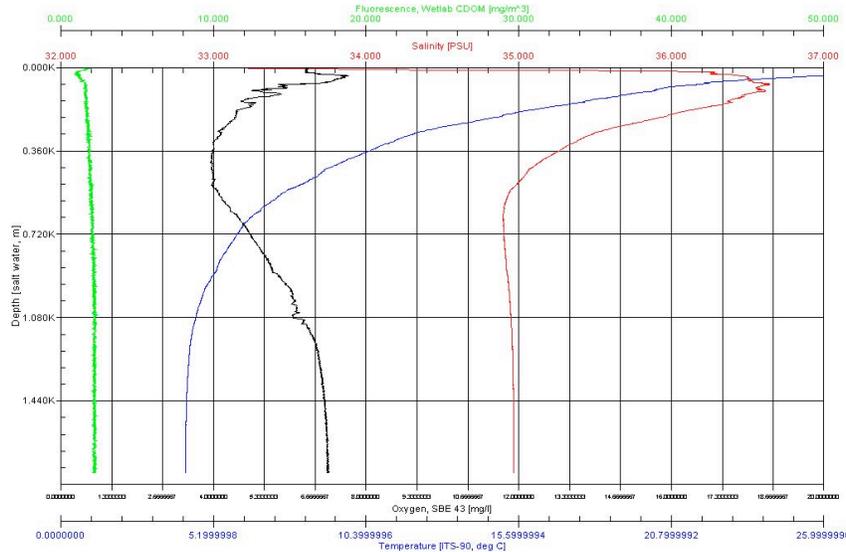
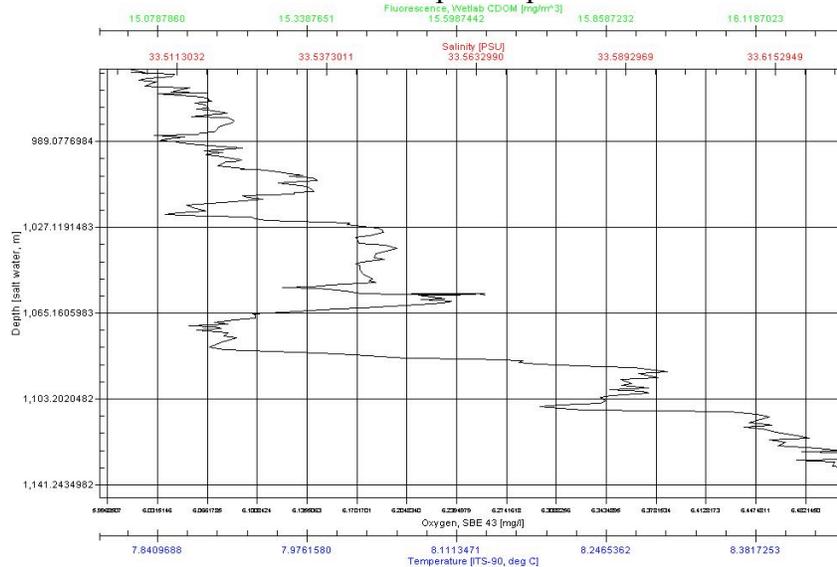
8. SW-20100824-FER9-**12** (1065m)
BP-TN15-SS02
 - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP

9. SW-20100824-FER9-**14** (950m)
BP-TN15-SS02
 - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP

Third station

SW-20100824-FER9-xx
BP-TN15-SS03

- 131 miles SW of wellhead.
- DO decline with four depressions of 0.1 mg/l at 1020m, 0.2 mg/l at 1075m, and <0.1 mg/l at 1052m and 1105m. Total CTD cast depth 1748m.
- Many little spikes which were close together. Decided to just take the most prominent spike.

**Close up of Dip**

10. SW-20100824-FER9-16 (surface)
BP-TN15-SS03

- DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP

11. SW-20100824-FER9-17 (1200m)

BP-TN15-SS03

- DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry, SIP

12. SW-20100824-FER9-19 (1075m)

BP-TN15-SS03

- DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP, SIP

13. SW-20100824-FER9-21 (950m)

BP-TN15-SS03

- DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP