Daily Report August 21, 2010

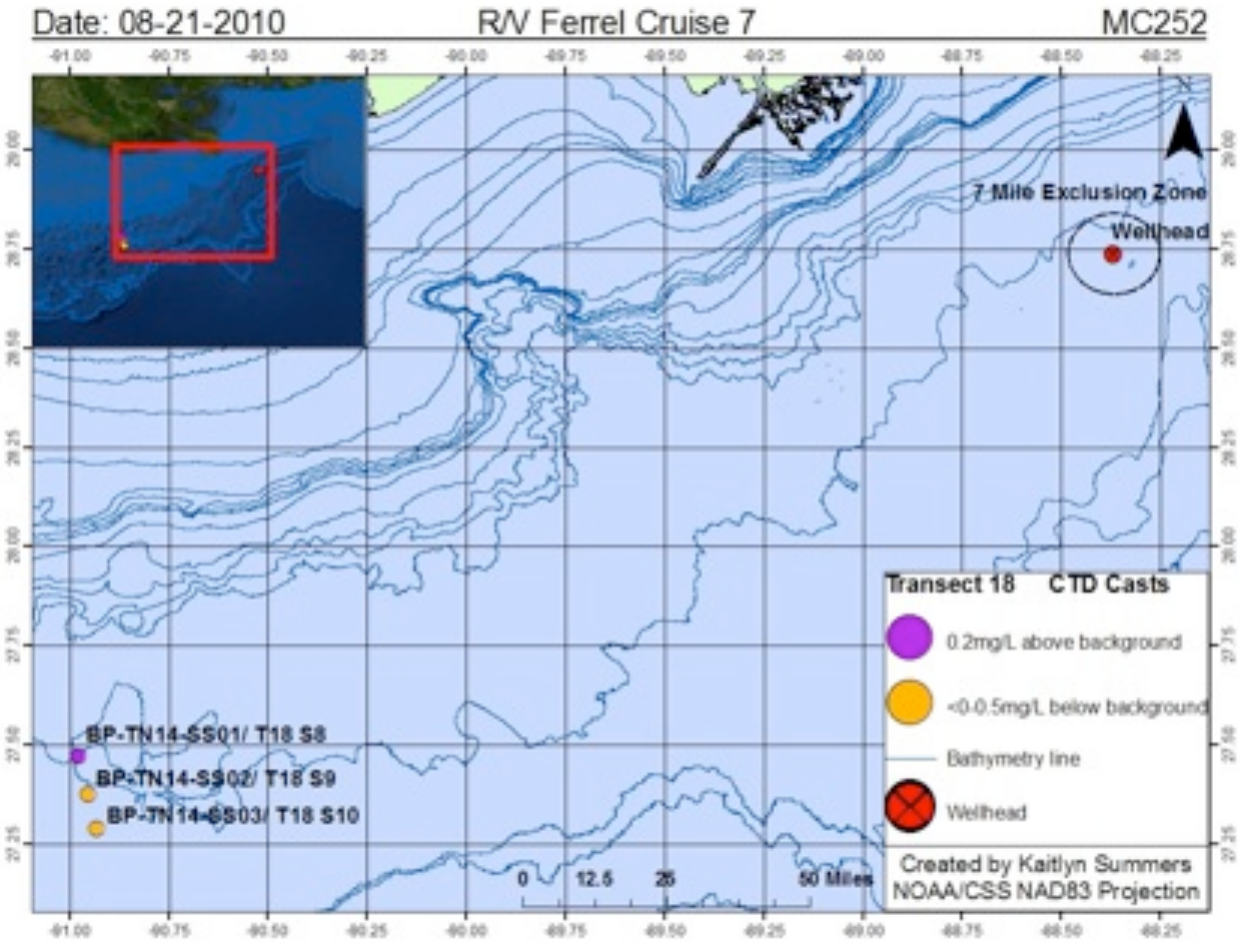
R/V Ferrel
Francine Reid

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, Culturing, PLFA (Sterivex filter)
6. NOTE: I have been noticing some double DO-dips on some of the scans. For next mission I would like to start taking depth samples at each dip if they are significant enough and possibly in between the dips as well.

7. Weather conditions: Air Temperature 87 degrees Fahrenheit, seas 1-2ft

Sampling Nomenclature:

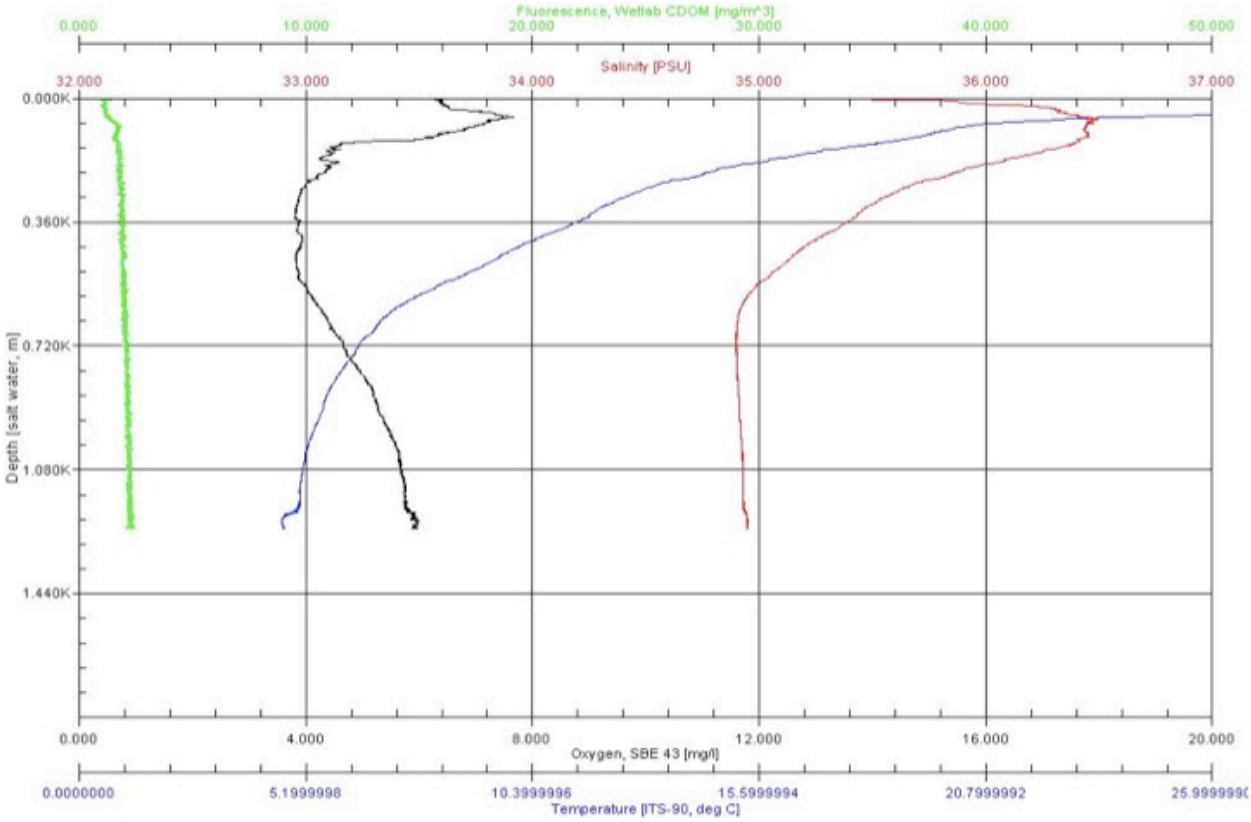
SW-YYYYMMDD-VesselMission#-SampleID
BP-TransectNumber##-SamplingSite##



First station

156 miles SSW of wellhead. DO spike of 0.2mg/l and temp. dip of 0.3 deg. C at 1200m. Total CTD cast depth 1254m

SW-20100821-FER8-xx
BP-TN14-SS01



1. SW-20100821-FER8-**01** (Surface)
   BP-TN14-SS01
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry

2. SW-20100821-FER8-**02** (1250m)
   BP-TN14-SS01
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry
   - Roger took 15mL sample for pressurization

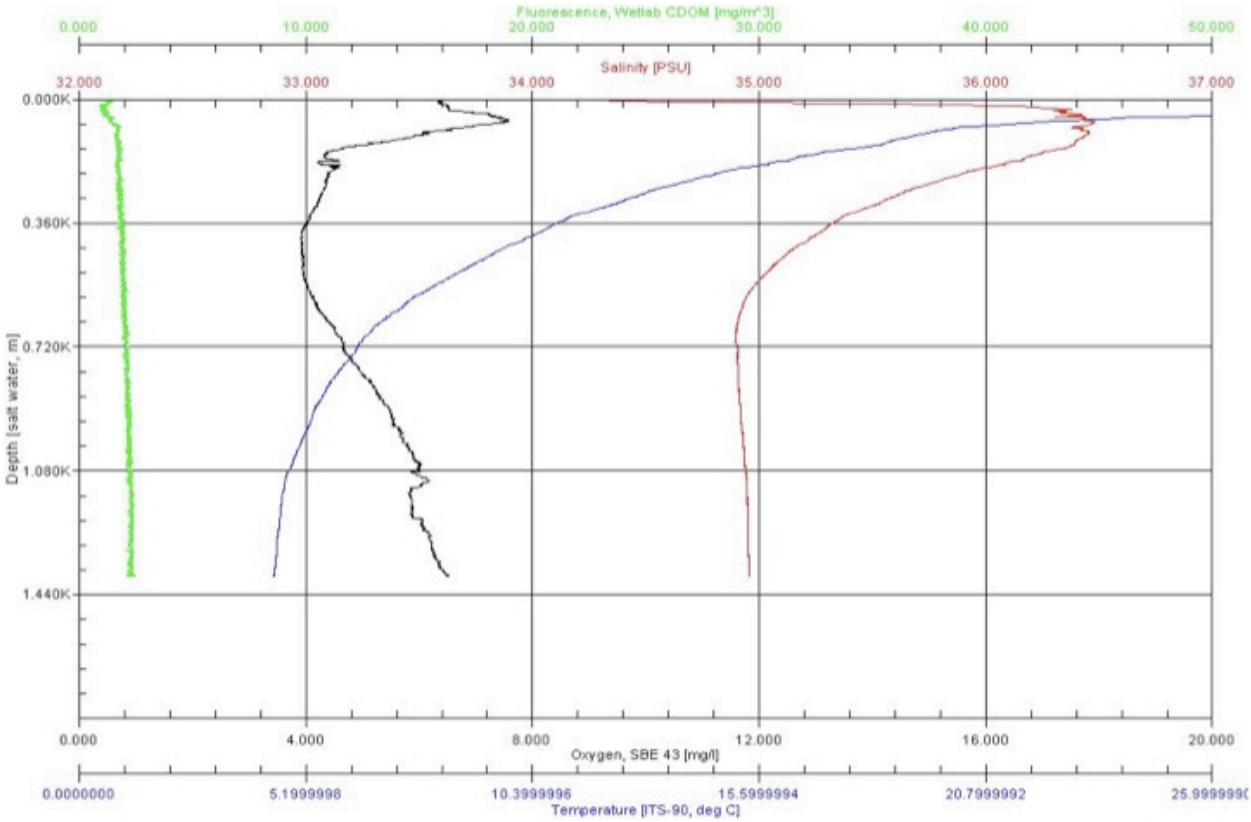
3. SW-20100821-FER8-**04** (1150m)
   BP-TN14-SS01
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry

4. SW-20100821-FER8-**06** (950m)
   BP-TN14-SS01
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA, SIP, Nutrient Chemistry

Second station

159 miles SSW of wellhead. DO decline with one narrow and one broad depression of 0.2 mg/l at 1060m and 0.4 mg/l at 1128m. Total CTD cast depth 1384m.

SW-20100821-FER8-xx
BP-TN14-SS02



5. SW-20100821-FER8-**08** (surface)
   BP-TN14-SS02
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry

6. SW-20100821-FER8-**09** (1300m)
   BP-TN14-SS02
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry

7. SW-20100821-FER8-**11** (1150m)
   BP-TN14-SS02
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP
   - Roger took 15mL sample for pressurization

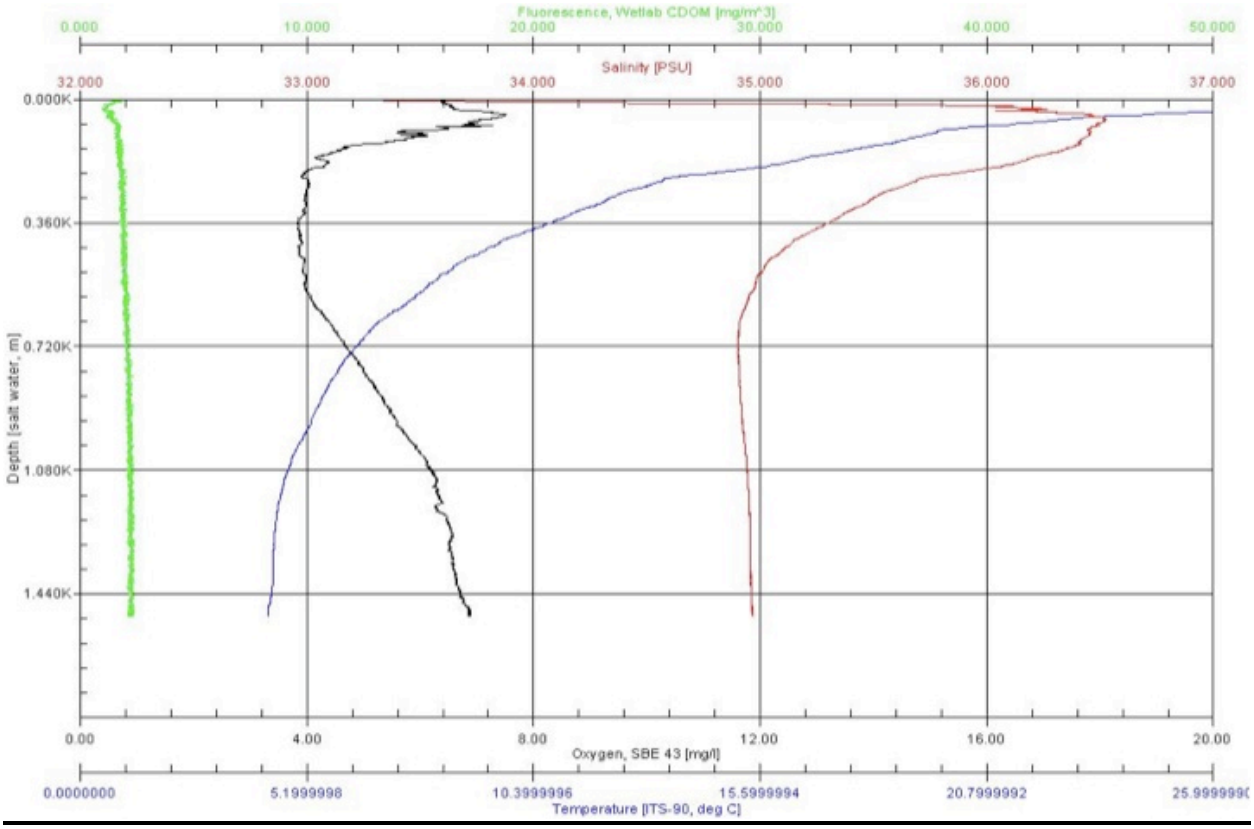
8. SW-20100821-FER8-**13** (1000m)
   BP-TN14-SS02

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

Third station

160 miles SSW of wellhead. DO decline with narrow depression of 0.2 mg/l at 1175m. Total CTD cast depth 1500m

SW-20100821-FER8-xx
BP-TN14-SS03



9. SW-20100821-FER8-**10** (surface)
   BP-TN14-SS03
   - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry

10. SW-20100821-FER8-**15** (1300m)
    BP-TN14-SS03
    - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, SIP, Nutrient Chemistry
    - Roger took 15mL sample for pressurization

11. SW-20100821-FER8-**18** (1190m)
    BP-TN14-SS03
    - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry, SIP

12. SW-20100821-FER8-**20** (1000m)
    BP-TN14-SS03
    - DNA (4L), RNA (4L), PLFA (Sterivex 600mL + MoBio Filter 1.4L), AODC, VOA Analysis, Nutrient Chemistry