

## Daily Report Cruise 4

October 2, 2010

This is the fourth cruise of the MC252 Deep water sediment sampling program, R/V Gyre. Three stations were sampled (FF-005, FF-010, and LBNL-7), one cast per station. Little black granules that may be weathered oil were observed. A slight sheen was present in overlaying water at site LBNL-7. ROBIO was picked up at the start of the day before any sampling sites.

### Station 1

1. Station ID: FF-005
2. Average Lat: 28.806806  
Average Lon: -88.561094
3. Depth: 1003m
4. Time Corer Deployed: 8:53  
Time Corer Recovered: 9:15  
Time Corer on Deck: 9:42
5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

6. LBNL Sampling Team: Kevin McClay and Julian Fortney
7. Location Notes: 1 cast attempted. Overlaying water was clear and easy to filter.
8. LBNL samples:

Core number GT0049:

Sample ID	Sample Type	Volume	Storage
SE-20101002-GY-FF005-BC-147	Intact Core	NA	-80C
SU-20101002-GY-FF005-BC-148	AODC	20ml	4C
SU-20101002-GY-FF005-BC-149	DNA Filter	800ml	-80C
SU-20101002-GY-FF005-BC-150	DNA Filter	800ml	-80C

### Station 2

1. Station ID: FF-010
2. Average Lat: 28.667883

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- Average Lon: -88.429986
3. Depth: 1356m
  4. Time Corer Deployed: 11:47  
Time Corer Recovered: 12:14  
Time Corer on Deck: 12:46
  5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

6. LBNL Sampling Team: Kevin McClay and Julian Fortney
7. Location Notes: 1 cast attempted. Overlaying water was clear and easy to filter.
8. LBNL samples:

Core number:

Sample ID	Sample Type	Volume	Storage
SE-20101002-GY-FF010-BC-151	Intact Core	NA	-80C
SU-20101002-GY-FF010-BC-152	AODC	20ml	4C
SU-20101002-GY-FF010-BC-153	DNA Filter	800ml	-80C
SU-20101002-GY-FF010-BC-154	DNA Filter	800ml	-80C

**Station 3**

1. Station ID: LBNL-7
2. Average Lat: 28.639058  
Average Lon: -88.471317
3. Depth: 1545m
4. Time Corer Deployed: 14:21  
Time Corer Recovered: 14:54  
Time Corer on Deck: 15:33
5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

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6. LBNL Sampling Team: Kevin McClay and Julian Fortney

7. Location Notes: 1 cast attempted. Overlaying water was clear and easy to filter. Soft sediment interface, likely drilling mud. A slight sheen was observed on top of water after pumping.

8. LBNL samples:

Core number 1: GT0011

Sample ID	Sample Type	Volume	Storage
SE-20101002-GY-LBNL7-BC-155	Intact Core	NA	-80C
SU-20101002-GY-LBNL7-BC-161	AODC	20ml	4C
SU-20101002-GY-LBNL7-BC-162	DNA Filter	640ml	-80C
SU-20101002-GY-LBNL7-BC-163	DNA Filter	600ml	-80C

Core number 2: GT0056

Sample ID	Sample Type	Volume	Storage
SE-20101002-GY-LBNL7-BC-156	Intact Core	NA	-80C
SU-20101002-GY-LBNL7-BC-164	AODC	20ml	4C
SU-20101002-GY-LBNL7-BC-165	Culture	10ml	4C
SU-20101002-GY-LBNL7-BC-166	RNA Filter	770ml	-80C with 10ml RNA later
SU-20101002-GY-LBNL7-BC-167	RNA Filter	800ml	-80C with 10ml RNA later
SU-20101002-GY-LBNL7-BC-168	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol
SU-20101002-GY-LBNL7-BC-169	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol
SU-20101002-GY-LBNL7-BC-170	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol

Core number 3: GT0003

Sample ID	Sample Type	Volume	Storage
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SE-20101002-GY-LBNL7-BC-157	Single cell genomics	1ml (sediment)	-80C with 0.5ml 60% glycerol
SE-20101002-GY-LBNL7-BC-158	AODC	1ml (sediment)	4C with 0.1ml of formaldehyde
SE-20101002-GY-LBNL7-BC-159	Culture	1ml (sediment)	4C
SE-20101002-GY-LBNL7-BC-160	RNA	1.5ml (sediment)	-80C with 10ml RNA later
SU-20101002-GY-LBNL7-BC-171	SIP	125ml	4C
SU-20101002-GY-LBNL7-BC-172	Nutrients	100ml	-80C
SU-20101002-GY-LBNL7-BC-173	VOA	40ml	4C with 0.05ml HCL