



Daily Drilling and Scientific Report for IODP Expedition 313 New Jersey Shallow Shelf

16th May 2009 (0000-2400, local time)

1. Location

Hole MAT-1A (Hole M0027A).

Time zone: US Eastern Time, UTC -4

Position at midnight:

Latitude: 39° 38.04606' N

Longitude: 73° 37.30146' W

2. Activity summary

Conducting coring operations at Hole MAT-1A (M0027A).

3. Science report

The day was again a day of excellent recovery and very good advance pace. After crossing the Miocene-Oligocene boundary last night, we cored most of the Oligocene today and are now sampling the limit between the Oligocene and the Eocene. The nature of the sediments was quite monotonous i.e. glauconite silts and silty clays with forams and shell fragments, showing very subtle changes in grain size and composition. These changes will be looked at more closely at the Onshore Science Party in Bremen, as the Oligocene period is a crucial time of global cooling.

4. Core recovery details

Hole	M0027A
Cores recovered	183R to 198R (16 cores)
Drilled length	39.65 m
Recovered length	39.67 m
Recovery	100.05 %
Depth at midnight	554.76 mbsf

5. Weather

Sea swell 2-4ft; wind direction SE; wind speed 5-15 kt; patchy fog, showers; 22°C.

Next 24 hrs: sea swell 3-5 ft (subsiding to 2-4ft); wind direction SW (becoming NW); wind speed 15-20 kt (gusting to 25 kt), diminishing to 10-15 kt (gusting to 20 kt); showers likely; 15°C.