



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

11th 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

Another high recovery day that continued in the medium to fine sand intervals from yesterday, but by Core 105R (302 mbsf) we were again in firm, silty clay to very fine sand with mica and shell fragments. Recovery was still near 100%. Glauconite began to appear at 335 mbsf (Core 116R) and the section started to become more sandy and well-cemented. Three meters deeper at 338 mbsf in Core 117R we were in very dark green glauconitic sand, variably lithified and loose. Recovery began to fall off in this difficult-to-recover lithology, which gradually became poorly sorted, quartz-rich glauconitic sand. The day ended in Core 122R at 350 mbsf.

### 4. Core recovery details

<b>Hole</b>	M0027A
<b>Cores recovered</b>	100R to 122R (23 cores)
<b>Drilled length</b>	66.26 m
<b>Recovered length</b>	60.64 m
<b>Recovery</b>	91.52%
<b>Depth at midnight</b>	350.41 mbsf

### 5. Weather

Sea swell 2-3 ft; wind direction W; wind speed 10-15 knots; dry; 14°C.

Next 24 hrs: sea swell ~2ft; wind direction NW (becoming SW); wind speed 5-10 knots; dry; 19°C.