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

7th 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

Core 51H at 112 mbsf recovered 25 cm of clay with silt and very fine sand. We spot-cored throughout the day and recovered uniform quartz sands, occasionally with well-rounded granules and occasional pebbly units possibly sorted during coring/retrieval. The catcher in core 58H at 169 mbsf contained pyritized medium sandstone, the first cemented unit encountered thus far.

4. Core recovery details

<table>
<thead>
<tr>
<th>Hole</th>
<th>M0027A</th>
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</thead>
<tbody>
<tr>
<td>Cores recovered</td>
<td>51H to 58H (8 cores)</td>
</tr>
<tr>
<td>Drilled length</td>
<td>6.83 m</td>
</tr>
<tr>
<td>Recovered length</td>
<td>6.83 m</td>
</tr>
<tr>
<td>Recovery</td>
<td>100 %</td>
</tr>
<tr>
<td>Depth at midnight</td>
<td>168.87 mbsf</td>
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</tbody>
</table>

5. Weather

Sea swell 4-7 ft; wind direction SW; wind speed 15-20 knots; spells of rain, patchy fog; 21°C.
Next 24 hrs: sea swell 3-5ft; wind direction SW, becoming S; wind speed 5-10 knots; chance of showers and thunderstorms; 20°C.