



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

**6th 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**

A change in facies at 79 mbsf to mica-bearing fine to medium sand with clay matrix and several lignite layers may be the middle Miocene Kirkwood equivalent, though the return to medium quartz-rich sand by 82 mbsf suggests we may still be in the late Miocene Cohannsey formation.

### **4. Core recovery details**

<b>Hole</b>	M0027A
<b>Cores recovered</b>	42X to 50H (9 cores)
<b>Drilled length</b>	13.77 m
<b>Recovered length</b>	5.43 m
<b>Recovery</b>	39.43 %
<b>Depth at midnight</b>	97.62 mbsf

### **5. Weather**

Sea swell 2-4 ft; wind direction N; wind speed 5-10 knots; showers; 14°C.  
Next 24 hrs: sea swell 4-7 ft; wind direction SW; wind speed 15-20 knots (gusting to 25 knots); rain likely, isolated thunderstorms, patchy fog in the evening; 21°C.