



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

**8<sup>th</sup> 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**

HPC core 59H began at 177 mbsf with good penetration in structureless, uniform fine sand. As the proportion of clay matrix increased and the sediment became firmer, penetration decreased to a few 10's of cm in cohesive silty clay with faint indications of bioturbation; sediment is micaceous with pyrite and possible terrestrial organic material.

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

<b>Hole</b>	M0027A
<b>Cores recovered</b>	59H to 63H (5 cores)
<b>Drilled length</b>	3.77 m
<b>Recovered length</b>	4 m
<b>Recovery</b>	106.1 % (expanding clays)
<b>Depth at midnight</b>	189.19 mbsf

### **5. Weather**

Sea swell 3-5ft; wind direction SW; wind speed 5-10 knots; dry, sunny spells, slight fog; 20°C.

Next 24 hrs: sea swell 2-3 ft; wind direction SW; wind speed 10-15 knots (increasing to 15-20 knots, gusting to 25 knots); slight chance of showers and thunderstorms; 21°C.