



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

**30th May 2009 (0000-2400, local time)**

### **1. Location**

Hole MAT-2D (Hole M0028A).

Time zone: US Eastern Time, UTC -4

Position at midnight:

Latitude: 39° 33.94279' N

Longitude: 73° 29.83481' W

### **2. Activity summary**

Coring of MAT-2D (M0028A)

### **3. Science report**

Today was a day of excellent recovery with continuous coring. We retrieved 17 cores and recovered 35.7 meters of sediment. We documented a broadly coarsening upward series of sediment between the m5 and m5.2 unconformities (Langhian 16.1-15.6 Ma). The sequence is comprised of stiff silty clays with shell fragments giving rise up section to well-sorted, fine-grained clayey sands with glauconite, poorly-sorted medium to coarse-grained glauconite sand and then quartz sands and sandstones with granules, pebbles, shells and lignite. We have certainly passed through the m5.2 unconformity represented by the stiff silty clays, and are now coring down towards the m5.3 unconformity, into the Burdigalian sediment.

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

<b>Hole</b>	M0028A
<b>Cores recovered</b>	17
<b>Drilled length</b>	45.75 m
<b>Recovered length</b>	35.74 m
<b>Recovery</b>	78.12 %
<b>Depth at midnight</b>	317.62 mbsf

### **5. Weather**

Sea swell 1 - 3 ft; NW to W wind direction; wind speed 5 – 10 kt with gusts up to 18 kt; Overcast initially becoming sunny by midday; 20°C.

Next 24 hrs: Sea swell 2 - 4 ft; S winds 5-10 kt becoming SW 10 – 15 ft gusting to 20 kt by the afternoon; slight chance of showers and thunderstorms; 22°C.