



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

**21st 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**

Currently logging Hole MAT-1A (M0027A). Sonic velocity and acoustic imaging logging of the middle interval was completed. VSP was completed in open-hole conditions for the middle interval, and through pipe from 195 mbsf to seafloor. Operations were halted at 2230 after a fault developed with the cooling system on the drilling rig. A supply boat delivery with spare parts has been arranged for arrival early on the 22nd.

### **3. Science report**

Today was the third day of logging operations in the hole. We complemented previous logging operations in the middle section (347 – 195 mbsf) by running Spectral Gamma Ray, Sonic Velocity and Acoustic Imagery above the bridge that formed yesterday at 347m. We then started the acquisition of the VSP (Vertical Seismic Profile), in the open hole condition, of the middle section and continued logging through the pipe in the upper section. The dataset gathered to this point at MAT1 is considerable and of great quality. It will be easy to integrate with MAT2 and 3 into the New Jersey transect.

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

NA

### **5. Weather**

Sea swell <2 ft; wind direction southerly; wind speed 5-15 kt; dry and sunny; 20°C.

Next 24 hrs: Seas 2 – 4 ft; SW winds 10 – 15 kt (gusting to 20 kt) becoming W late afternoon; dry and sunny; 22°C.