



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

5th 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

With a switch to XCB coring at 42 m (core 25X), nearly full recovery was made. The recovered material was medium to coarse quartz sand with rare dark grains, occasional grains and rare cm-sized fragments of lignite. Recovery decreased rapidly below 50 m (core 27X) in intervals of well-rounded granules and pebbles of quartz and metamorphic grains, with possible grading due to coring disturbance. There was a change at 79 m (core 38X) to mica-bearing fine to medium sand with clay matrix and several lignite layers. The low recovery of medium quartz-rich sand in cores 39X-41X is probably cave-in from above 79 m.

4. Core recovery details

Hole	M0027A
Cores recovered	25X to 41X (17 cores)
Drilled length	39.66 m
Recovered length	17.14 m
Recovery	43.22 %
Depth at midnight	81.57 mbsf

5. Weather

Sea swell 4-6 ft; wind direction NE; wind speed 15-20 knots; fog, dry spells, rain, thunder and lightning in the evening; 12°C.

Next 24 hrs: Sea swell 2-4 ft; wind direction NE, becoming N; wind speed 5-10 knots; chance of showers; 14°C.