



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

12th 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

The quartz-rich glauconitic fine-grained sand in Core 122R continued downward, but gradually all glauconite disappeared. Fine to medium, well-sorted quartz sand with traces of metamorphic grains continued to Core 134R (378 mbsf) as lithification decreased substantially. While the sediment was still relatively uncemented, shell fragments began to appear below this depth, and were concentrated in 10-cm intervals in Cores 142R and 143R (403 to 408 mbsf).

4. Core recovery details

Hole	M0027A
Cores recovered	123R to 136R (14 cores)
Drilled length	36.6 m
Recovered length	21.27 m
Recovery	58.11%
Depth at midnight	387.01 mbsf

5. Weather

Sea swell ~2ft; wind direction NW; wind speed 5-10 knots; dry and sunny; 19°C.

Next 24 hrs: sea swell 1 ft (building to 2-3 ft); wind direction E; wind speed 10-15 knots; dry; 20°C.