



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

12th June 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

Continue coring activities at MAT-2D (M0028A). Planning for the end of this hole, logging operations, salvage of casing and coring strategy for the next hole continued throughout the day.

3. Science report

We continued to work down through the glauconitic quartz sand of sequence m5.7 with satisfactory recovery at a pace of roughly 2 m per hour. The lithology remained a monotonously uniform 60-80% bimodal quartz sand (medium to coarse, sub-angular grains plus well-rounded granules to pebbles) and fine to medium glauconite sand. Some intervals were cemented to sandstone by a hard brown matrix. Penetration rates began to fall off towards evening, and the glauconite component began to decrease. Core 142R (592-595 mbsf) was recovered just before midnight, and we believe the base of sequence m5.7 lies just a few meters deeper. We hope to confirm this tomorrow.

4. Core recovery details

Hole	M0028A
Cores recovered	132R to 142R (11 cores)
Drilled length	27.45m
Recovery length	29.27m
Recovery	106.63%
Depth at midnight	594.85 mbsf

5. Weather

Sea swell 2-4 ft; SW winds 5-15 kt; scattered showers and thunderstorms; 24°C.

Next 24 hrs: sea swell 2-4 ft; E winds 10 kt; chance of showers and thunderstorms in the afternoon; 22°C.