



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

4th 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 hole MAT-2D (M0028A)

3. Science report

The day began with core 55R (360-363 mbsf) shortly after midnight, continuing the pattern of glauconitic quartz sand from the night before. We believe we passed through the m5.3 sequence boundary last evening at 356 mbsf. We hope our wireline log data will shed light on the nature of this boundary as available observations thus far have not detected a major facies change. The sand gradually became finer and more clay-rich with occasional shell fragments and decreasing amounts of glauconite down to an interval of no recovery at 382-385 mbsf. We believe this marked a major downlap surface, and below it cores became more coarse with decreased amounts of glauconite. Core 69R (400-403 mbsf) was the last of the day, and contained moderately well sorted medium quartz sand with very fine glauconite, scattered shell fragments and some rounded quartz granules and pebbles.

4. Core recovery details

Hole	M0028A
Cores recovered	15
Drilled length	42.7m
Recovery length	22.61m
Recovery	52.95%
Depth at midnight	403.02 mbsf

5. Weather

Sea swell 1 - 3 ft; NE wind direction; wind speed 15 - 20 kt gusting to 23 kt; dry and overcast until late afternoon when rain set in; 17°C.

Next 24 hrs: Sea swell 3 - 5 ft; NE winds around 15 kt gusting up to 25 kt; rain with isolated thunderstorms; 14°C.