



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

10th 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).

3. Science report

We continued with excellent recovery in the lithology cored yesterday, finding silty and very fine quartz sand in Cores 109R-111R (512-522 mbsf). Core 112R (522-525 mbsf) marked an abrupt change to medium to coarse quartz sand with glauconite. The next core recovered medium sand-sized glauconite with some quartz, and then Core 114R (528-530 mbsf) was a fully cemented glauconite sandstone with well-rounded quartz granules. Further analysis and wireline logs yet to be run will evaluate our preliminary conclusion that this sandstone marks the m5.6 sequence boundary. We advanced by less than full core barrels, but with good recovery through Core 117R at 533-534 mbsf.

4. Core recovery details

Hole	M0028A
Cores recovered	9
Drilled length	21.35m
Recovery length	21.21m
Recovery	99.34%
Depth at midnight	533.85 mbsf

5. Weather

Sea swell ~2 ft; E winds 5-10 kt; patchy fog, showers; 21°C.

Next 24 hrs: sea swell 2-3 ft; E winds 5-10 kt (increasing to 10-15 kt); fog, scattered showers, 20°C.