



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

27th May 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

Conducting coring and re-casing of the hole at MAT-2D (M0028A)

3. Science report

Today was the second day of coring at MAT-2D. Recovery was very good at first, with more than 10m of sticky, olive-grey silty clay, slightly micaceous, with rare lignite and shell fragments. At 253m, we entered into a poorly sorted, angular to sub-rounded, medium to coarse grained quartz sand with glauconite sand and granules and rare shell debris. Recovery decreased sharply afterwards. Some intervals of liquefied sands were recovered. The core barrel locked at 264m and coring stopped. We think that we have reached one of the most important unconformities at the top of Miocene prograding clinoforms, the m5 Langhian unconformity, although we probably did not go through it as yet.

4. Core recovery details

Hole	M0028A
Cores recovered	7
Drilled length	18.3 m
Recovery length	12.91 m
Recovery	70.55%
Depth at midnight	264.03 mbsf

5. Weather

Sea swell 2-4 ft; E wind direction; wind speed 10-15 kt; period of dense fog breaking midday into a sunny period, but returning mid-afternoon; 12-18°C. Next 24 hrs: Sea swell 2-4 ft building to 3-5 ft late afternoon; E winds 5-10 kt; chance of rain and patchy dense fog; 18°C.