



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

11th 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

early signs of H₂S. Core 118R (534-537 mbsf) was more of the glauconite sandstone we had seen the day before. The effectiveness of a brown matrix binding the glauconite and quartz grains into a hard sandstone varied from core to core. With Core 124R (546-548 mbsf) the proportion of quartz increased, the induration of the sediments decreased, and we crossed sequence boundary m5.6 and began to consistently recover glauconitic sand. This continued with excellent recovery until we ended the day with Core 131R (564-567 mbsf) in medium to coarse glauconitic sand, dominated by quartz in both well-sorted, sand-sized, sub-angular grains, and in rounded granules and pebbles. No other minerals or shells occur in these sands/sandstones.

4. Core recovery details

Hole	M0028A
Cores recovered	118R to 131R (14 cores)
Drilled length	33.55m
Recovery length	31.78m
Recovery	94.72%
Depth at midnight	567.4 mbsf

5. Weather

Sea swell 2-3 ft; E winds 5-15 kt; fog, scattered showers, thunderstorms in the evening; 20°C.

Next 24 hrs: sea swell 3-4 ft (subsiding to 2-3 ft); SW winds 15 kt (diminishing to 5-10 kt); scattered showers and thunderstorms; 24°C.