



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

21st June 2009 (0000-2400, local time)

1. Location

Hole MAT-3A (Hole M0029A).

Time zone: US Eastern Time, UTC -4

Position at midnight:

Latitude: 39° 31.1717' N

Longitude: 73° 24.7957' W

2. Activity summary

All pipe and casing were cut below seabed and returned to deck. We have departed Site M0028 and have arrived at Site M0029 (MAT-3).

3. Science report

Our first core at 1700 hrs at Hole M0029A was intended to tag the seafloor and penetrate 80 cm into a hard sandy bottom; it returned empty. Our next three attempts recovered just a few cm of loose, medium-sized quartz sand. Core 5R (7-10 mbsf) recovered silty dark gray clay beneath a 10 cm layer of shelly gravel and provided good material for shore-based microbiological investigations. Despite low recovery, Cores 6R-8R (10-19 mbsf) recovered sufficiently fine-grained material to continue sampling for microbiology and porewater chemistry. The day ended with 3 cm of gravel and very coarse sand with broken shells in Core 10R (28-31 mbsf).

4. Core recovery details

Hole	M0029A
Cores recovered	Attempted runs 1R-10R (7 cores recovered)
Drilled length	25.2 m
Recovered length	6 m
Recovery	23.81 %
Depth at midnight	31.3 mbsf

5. Weather

Sea swell 3-5 ft; N winds 10-15 kt (increased to 15-20 kt); patchy fog, rain; 21°C.

Next 24 hrs: sea swell 3-5 ft; N winds 15-20 kt (gusting 25 kt, diminishing 10-15 kt); slight chance of light rain and drizzle in the morning, chance of showers in the afternoon; 24°C.