# Daily Drilling and Scientific Report for IODP Expedition 347, Baltic Sea Paleoenvironment



18th Sep 00:00 - 18th Sep 24:00 GMT

#### 1. Location

10° 6.507' E 55° 0.299' N BSB-3 – Lille Baelt

Water Depth: 31.2m (beneath keel)

### 2. Activity Summary

Continued operations at M0059B.

#### 3. Science Report

Monitoring of the mud pressure did not indicate any impermeable layer and therefore the drilling continued through the tills as planned. At 167 mbsf a hard layer of the till was encountered. Upon penetration of that layer the sediment was very soft. A core was taken which brought up only a small sample of white chalk. After examination of this sample of crushed limestone collected at 169 mbsf it was decided to continue the drilling in order to get through a possible large limestone boulder. At 203 mbsf the drilling hit a softer layer and one c. 40 cm sample was taken which contained very finely minced limestone with some gravel on top. To ensure that no Quaternary deposit was missed a new sample was collected 1 m further down but it only contained a negligible amount of the same finely minced limestone. It was decided to finish the hole as the drilling had obviously penetrated into the limestone basement. The down hole logging in hole C will give a good indication of what has been cored and guide us in the collection of samples from different till beds for OSL dating.

4. Core Recovery Details

Hole	M0059B
Cores recovered	2
Drilled length	3.97 m
(Coring)	
Drilled length (Open	70.33
hole)	
Recovered length	0.02 m
Recovery	0.005%
Depth at midnight	204.03 m

#### 5. Weather

Fair, swell of 0.2 – 0.4 m; wind direction S - WNW, winds of 6 -8 kts gusting 10 - 12 kts; 16°C.

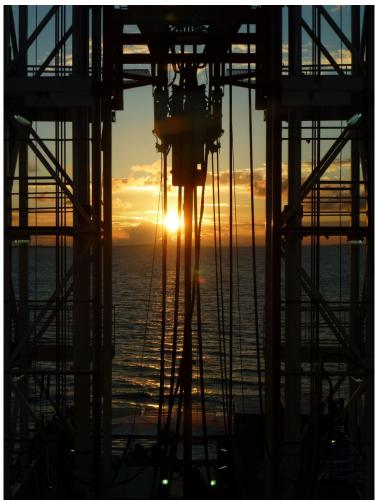
Next 24 hrs: Fair with isolated showers, swell of 0.2 – 0.4 m, wind direction NW swinging WNW, winds of 10 – 12 kts, gusting 12 - 15 kts. 15°C.

Cold front forecast to pass through the area.

#### 6. Planned Activity for the next 24 hours

Continue drilling operations on the second Paleoceanographic hole (M0059B) at BSB-3 until scientific target reached. To log M0059B prior to bumping across to M0059C to begin coring operations on the Microbiological specific hole.

## 7. Photo of the day



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