

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



22nd Sep 00:00 – 22nd Sep 24:00 GMT

1. Location

10° 6.4697' E 55° 0.2898' N (M0059C)
BSB-3 – Lille Baelt
Water Depth: 31.2m (beneath keel)
Transit to BSB-1

2. Activity Summary

Completed coring operations at M0059C. Commenced transit to BSB-1 (M0060A).

3. Science Report

Drilling of Hole M0059C in southern Little Belt continued. The drilling depth was approaching an interval at 145-155 mbsf where down-hole logging indicated increased resistivity. A sample at 143 mbsf recovered coarse sand. The material below this was sampled every metre by a hammer sampler which returned mostly sand and gravel. At 148 mbsf it was decided to move down to 153 and 158 mbsf in order to assess the presence of any finer grained sediments. As these were not found, the hole was terminated. At both depths a small amount of clay was found in the core catcher while the rest was the remains of washed-out gravel. In conclusion, an Eemian sequence was not found at this site. However, our more detailed sampling of the deep glacial sequence using the hammer corer has been very successful and many samples had been secured for OSL dating. These will provide new information on till development during the late glacial period.

4. Core Recovery Details

Hole	M0059C
Cores recovered	5
Drilled length (Coring)	0.48 m
Drilled length (Open hole)	11.6 m
Recovered length	0.48 m
Recovery	100 %
Final depth at M0059C	158.08 m

5. Weather

Fair with isolated showers, wave heights of 0.5 – 1.1 m; winds WSW-WNW, 16 – 23 kts, gusting 22 -27 kts; 14°C.

Next 24 hrs (BSB-1): Fair, wave heights of 0.3 – 0.5 m, winds NW 22 – 27 kts, gusting 22 - 27 kts. 14°C.
Low pressure moving through the area, maintaining elevated winds.

6. Planned Activity for the next 24 hours

Arrive at BSB-1; complete downpipe camera survey and commence coring operations on Hole M0060A.

7. Photo of the day



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