

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



8<sup>th</sup> Oct 00:00 – 8<sup>th</sup> Oct 24:00 GMT

### 1. Location

18° 15.250 E 58° 37.340' N

BSB-9 Landsort Deep

### 2. Activity Summary

Commence coring operations at BSB-9.

### 3. Science Report

The *Manisha* arrived at Station BSB-9B in the Landsort Deep early this morning. With a water depth of 437 m, this site is the deepest during Expedition 347 and also the deepest area in the Baltic Sea. The anticipated sediment thickness at this site is c. 160 meters and is expected to consist of soft gyttjas and clays overlying varved glacial clays and silt. The lowermost part of the sequence is believed to be till of unknown age, probably Weichselian.

The first push core was taken to locate the sediment-water interface recovered a blackish gyttja strongly smelling of sulphide. The following piston cores were charged with methane gas which made them expand in the liner. This type of sediment was recovered down to c. 18 mbsf where a dark greenish gyttja with a small amount of silt was recorded. In the entire sequence down to 19 mbsf, foraminifers, diatoms and different pollen grains were present but their abundance varied between the different cores.

### 4. Core Recovery Details

Hole	M0063A
Cores recovered	7
Drilled length (Coring)	19.96
Drilled length (Open hole)	N/A
Recovered length	19.28
Recovery	96.59%
Depth at Midnight	19.5m

### 5. Weather

Overcast with occasional sun, wave heights of 0.1 – 0.3 m; winds SW, 10 - 15 kts, gusting to 25 kts; 16°C.  
Next 24 hrs: Light rain and patchy fog, wave heights of 1.2 – 2.0 m, winds SW, 19 –27 kts, gusting 23 -34 kts. 16°C.

A low pressure system will move south across the North Sea producing fresh to strong winds.

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

Continue coring operations at BSB-9. Landsort Deep.

7. Photo of the day



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Cosmin experiences a rapidly expanding core from the Landsort Deep as it arrives on the drill floor.