

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



16th Oct 00:00 – 16th Oct 24:00 GMT

1. Location

18° 15.240' E 58° 37.330' N

BSB-9 Landsort Deep, Hole M0063E

2. Activity Summary

Commence coring operations at Hole M0063E (Microbiology).

3. Science Report

During the first half of the day we drilled the glacial clays in the lower part of Hole M0063D. As drilling penetrated below 55 mbsf, core expansion due to gas ceased. This is the fourth hole for paleoceanography in the Landsort Deep. This hole is being cored in order to secure a continuous stratigraphy and varve record. The cored intervals were coordinated with earlier holes in order to obtain the most complete combined record. As a result of the multiple holes, we expect to have a unique sequence of Holocene and late glacial sediments with good varve resolution ranging from the modern anoxic Landsort Deep through the Holocene and into late glacial clay.

4. Core Recovery Details

Hole	M0063D
Cores recovered	9
Drilled length (Coring)	25.6m
Drilled length (Open hole)	0
Recovered length	25.91m
Recovery	98.72%
Depth at Midnight	86.8m

5. Weather

Overcast with showers in the evening, wave heights of 0.5 – 1.5 m; winds NE, 12 - 23 kts, gusting to 27 kts; Max 13°C.

Next 24 hrs: Showers, wave heights of 0.3 – 0.8 m, winds from WSW becoming SSW, 12 –16 kts, gusting to 20 kts. 12°C.

Moderate southwesterly winds and showers will continue through Thursday ahead of an approaching area of low pressure.

6. Planned Activity for the next 24 hours

Continue coring operations at Hole M0063E (microbiology)

7. Photo of the day



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Interstitial water sampling from Hole M0063D