

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



24th Oct 00:00 – 24th Oct 24:00 GMT

1. Location

15° 28.638' E 55° 28.104' N

BSB-7C, Bornholm Basin

2. Activity Summary

Completed coring and logging operations at M0065A and began coring operations on Hole M0065B.

3. Science Report

At the start of the day we had reached a depth of 18 mbsf in Hole M0065A in the Bornholm Basin and were through a 12-14 m deep layer of black to green Holocene gyttja-clay. We were now coring a deep layer of brown glacial clay. The clay was relatively soft and uniform down to a depth of 40 mbsf where a hard layer was encountered for the first time and only a short core was recovered. The next two piston cores made a full stroke, however, and again consisted of brown clay but with varying amounts of sand.

Below 46 mbsf there was a hard and sandy formation. Very well sorted sand was collected down to 68 mbsf where it changed into a sandy silt and became gradually more like a diamicton. At approximately 74 mbsf the Mesozoic (Cretaceous) bedrock was reached, and the hole was terminated.

4. Core Recovery Details

Hole	M0065A	M0065B
Cores recovered	34	2
Drilled length (Coring)	19.42m	3.3m
Drilled length (Open hole)	26.08m	3m
Recovered length	19.9m	3.62m
Recovery	102.47%	109.7%
Depth at Midnight	73.9 mbsf	6.3 mbsf

5. Weather

Overcast with isolated showers, wave heights of 1.75 – 3 m; winds SW to W, 32 - 35 kts, gusting to 45 kts; Max 15°C.

Next 24 hrs: Fair with possible patchy fog and isolated showers, wave heights of 0.8– 1.6 m, winds W becoming SSE to S, 14 – 23 kts, gusting to 29 kts. 12°C.

A series of low pressure systems will pass to the north, increasing south to southwesterly winds.

6. Planned Activity for the next 24 hours

Continue operations at BSB-7C, Bornholm Basin.

7. Photo of the day



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