

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



20th Oct 00:00 – 20th Oct 24:00 GMT

1. Location

15° 13.585' E 55° 43.273' N

BSB-5, Hanoë Bay

2. Activity Summary

Arrival at Site BSB-5, Hanoë Bay. Complete camera survey of the seabed and commence coring operations.

3. Science Report

The first piston core was collected from 0-3 mbsf, displaying a short sequence of late Holocene sediments on top of a brown varved glacial clay. This type of clay was present in the following three cores down to 12 mbsf where a sandy clayey diamicton was encountered. It was coarser and distinctly more compacted at 13 mbsf where stones of chalk were present. At 16 mbsf a totally different type of diamicton was collected which had a greenish grey colour and contained only metamorphic and crystalline bedrock fragments and two fossil bivalves in limestone. The same type of diamicton was collected from 16.6 mbsf with the exception that this sample also contained fragments of sedimentary bedrock and was highly compacted and "dry".

4. Core Recovery Details

Hole	M0064A
Cores recovered	10
Drilled length (Coring)	19.5m
Drilled length (Open hole)	0
Recovered length	16.68m
Recovery	85.54%
Depth at Midnight	19.5mbsf

5. Weather

Isolated showers early morning becoming overcast, wave heights of 0.5 – 1.25 m; winds ENE swinging to SW and back to SE, 7 - 15 kts, gusting to 20 kts; Max 15°C.

Next 24 hrs: Showers, wave heights of 0.6– 1.3 m, winds SSW swinging through W, WSW and NW before becoming NE, 16 –23 kts, gusting to 29 kts. 10°C.

The warm front over the Baltic Sea will move north, with winds swinging to southerly. A low pressure to the west will interact with high pressure to the east.

6. Planned Activity for the next 24 hours

Continue coring operations at BSB-5, Hanoë Bay.

7. Photo of the day



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Night time operations