

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



19th Oct 00:00 – 19th Oct 24:00 GMT

1. Location

17° 46.3' E 57° 40.5' N

On transit to BSB-5, Hanoë Bay

2. Activity Summary

Complete coring operations at Hole M0063E (Microbiology) and begin transit to BSB-5.

3. Science Report

The microbiology sampling of Hole M0063E in the Landsort Deep continued during the night until completion at 92.8 mbsf. Piston cores were taken from the glacial clay in the lower part of the hole with close to 100% recovery after shifting to 3.3 m depth increments. The last piston core hit hard glacial till, yet recovered 1 m of core with a mixture of clay, sand, gravel and a rock that filled the liner.

All together about 1500 individual samples were taken from Hole M0063E for microbiology and geochemistry. Most of these samples are kept at -80°C until arrival in port. Three cooling boxes with live samples are kept at +4°C until they can be offloaded to a small ship upon arrival at Station BSB-5. In addition, 50 interstitial water samples were taken that will be divided in up to ten splits to satisfy the many requests.

4. Core Recovery Details

Hole	M0063E
Cores recovered	6
Drilled length (Coring)	17.5m
Drilled length (Open hole)	0
Recovered length	17.71m
Recovery	101.2%
Depth at Midnight	92.8m

5. Weather

Isolated showers and overcast, wave heights of 1.25 – 1.75 m; winds SW swinging to SE, 15 - 35 kts, gusting to 45 kts; Max 13°C.

Next 24 hrs: Fair with light rain showers, wave heights of 0.8– 1.0 m, winds SE swinging to WSW, 14 –19 kts, gusting to 23 kts. 10°C.

High pressure over Scandinavia will be pushed eastwards as a low builds across the region.

6. Planned Activity for the next 24 hours

Arrive at BSB-5, Hanoë Bay mid-morning and begin set-up for coring operations, including a camera survey of the seabed.

7. Photo of the day



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Ever changing light at sea