

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



23rd Oct 00:00 – 23rd Oct 24:00 GMT

1. Location

15° 28.631' E 55° 28.094' N

BSB-7C, Bornholm Basin

2. Activity Summary

Completed coring and logging operations at M0064D and transited to M0065A before conducting an ROV survey and re-commencing coring operations.

3. Science Report

Hole M0064D was completed with good recovery of the hard and compact sandy-silty-clayey diamicton down to 33 mbsf where the sediment turned into well sorted gravel. As this gravel was hard to collect the hole was open-holed down to 41 mbsf where the bedrock was most probably reached as the corer returned gravel and crystalline rock fragments, similar to the lowermost sample from hole M0064C. After this, down-hole logging was successfully carried out and then the *Greatship Manisha* left for the next site, BSB-7C northeast of the island of Bornholm.

No short Rumohr cores will be taken at this site due to the risk of encountering old ammunition or toxic war gas, and the piston coring started at 2 mbsf for the same reason. The sediment turned out to consist of a homogenous greenish gyttja-clay containing fragments of bivalve shells, abundant benthic foraminifers and organic remnants down to 12 mbsf where it gradually tuned into a greyish homogenous clay. At 16 mbsf, greyish-brown glacial clay with a small portion of sand was recorded but no distinct varves could be detected in the core catcher material.

4. Core Recovery Details

Hole	M0064D	M0065A
Cores recovered	15	9
Drilled length (Coring)	9.7m	26.4m
Drilled length (Open hole)	11.1m	2m
Recovered length	7.67m	28.58m
Recovery	79.07%	108.26%
Depth at Midnight	41.2 mbsf	28.4 mbsf

5. Weather

Overcast, wave heights of 0.5 – 1.25 m; winds S, 15 - 22 kts, gusting to 35 kts; Max 16°C.

Next 24 hrs: Fair, wave heights of 1.8– 2.0 m, winds WSW veering W, 29 –32 kts, gusting to 40 kts. 12°C.

Strong westerly winds building as a low pressure passes to the north.

6. Planned Activity for the next 24 hours

Continue operations at BSB-7C, Bornholm Basin.

7. Photo of the day



Preparing to deploy the ROV for the seabed survey.
Nadine Quintana Krupinski©ECORD_IODP