



Report on IODP Expedition Related Activities

Reporting date (Day/Month/Year): 26/10/2015

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Affiliation and job title: Akita University, Associate Professor

Type of activities (leave one)	4. 1st/2nd Post-expedition meeting
IODP Expedition Number and Name	Exp. 347; Baltic Sea Paleoenvironment
Responsibility in the expedition	Petrophysicist (ex Sedimentologist)
Activity Period (including transportation)	From (28/9/2015) to (3/10/2015)
Venue (city and country)	Stockholm, Sweden
<p>Result of the activity</p> <p>Discussions were conducted to understand the results obtained so far, as well as to plan a course of action for continuing work. In particular, much discussion was devoted to the age models for each site. Baltic Sea sediments are difficult to date due to the influence of radiocarbon "dead" carbon that is eroded from by ice-age glaciers. This complicates radiocarbon dating of bulk sediment, causing results that are often much too old. In such cases, it is preferable to use micro- or macro-fossils for dating. However, these are often scarce or absent entirely.</p> <p>Thus, much discussion was devoted to determine alternate means for assigning ages to the various units identified in the cores. Most importantly, discussion also centered on the relative uncertainty and precision with which age may be determined. Sediment expansion was at times a problem during this expedition, resulting in up to 200% recovery at times. This uncertainty in depth is further carried into the calculation of accumulation rate, and it was decided that any results that depend on calculation of sediment age or accumulation rate must consider the full uncertainty in these parameters. Otherwise, models and calculations may be misinterpreted if the results are not robust to the various uncertainties.</p> <p>Following the wrap of these discussions, a field trip to view glacial geologic sites spanning a several thousand year window near the time of the Younger Dryas was conducted. This provided the terrestrial context to several of the sites occupied during Exp. 347.</p>	
Notes	

Note:

1. The report should be submitted to the J-DESC/IODP Travel Support by email (travel@j-desc.org) **within two weeks after the activity.**

