IODP Exp. 347 Baltic Sea Paleoenvironment
SEDIMENT SMEAR SLIDE
&THIN SECTION WORKSHEET

| Expedition | Site | Hole | Core | Type | Sec | Interval (cm) Top | Interval (cm) Bottom |
|---|---|---|---|---|---|---|---|
| 347 | 59 | A | 15 | H | 2 | 126 | 127 |

| Sediment | Very dark grey laminated silty clay<br>Black organic-rich silty clay | Observer | SP |
|---|---|---|---|

Smear Slide

| Dominant Lithology | Minor Lithology |
|---|---|
| | X |

| Percent Terrigenous Texture | | |
|---|---|---|
| Sand | Silt | Clay |
| | | |

Comments:
Light-colored lamina, mm-scale
Large abundance of diatoms like this  (lake diatoms ~~sea ice~~)
Also complete centric diatoms
Trace of sand grains, trace of silt, mostly clay minerals

| Percent | Component |
|---|---|
| | **SILICICLASTIC GRAINS/MINERALS** |
| | Framework minerals |
| 5 | Quartz |
| tr | Feldspar (undifferentiated) |
| | K-feldspar (Orthoclase, Microcline...) |
| | Plagioclase |
| | Rock fragments |
| | Volcanic glass |
| | |
| | |
| | Accessory/trace minerals |
| | Micas |
| tr | Biotite |
| | Muscovite |
| | Chlorite |
| 62 | Clay sized fraction |
| tr | Glauconite |
| | Ferromagnesian minerals |
| tr | Other dense minerals |
| | |
| | |
| | Authigenic minerals |
| | Zeolite |
| | Pyrite |
| tr | Opaque minerals (undifferentiated) |
| | Fe-oxide |
| | Carbonates |
| | Micrite |
| | Others |

| Percent | Component |
|---|---|
| | **BIOGENIC GRAINS** |
| | Calcareous |
| | Foraminifera |
| | Nannofossils |
| | Pteropods |
| | Ostracods |
| | Echinoderm |
| | Bivalves |
| | Bryozoans |
| | Corals |
| | Sponge spicules |
| | Other spicules |
| | Bioclast (undifferentiated) |
| | |
| | Siliceous |
| | Radiolarians |
| 20 | Diatoms |
| | Silicoflagellates |
| 1 | Sponge spicules |
| 10 | Siliceous debris (undifferentiated) |
| | |
| | Others |
| | Dinoflagellates |
| | Pollen |
| 1 | Organic debris |
| | Plant debris |
| | Fish remains (teeth, bones, scales) |
| | Others |
| | |