

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

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
347	63	A	30	H	CC		

Sediment	Clast-rich sandy diamictm	Observer	JP
----------	---------------------------	----------	----

Smear Slide
-------------

Dominant Lithology	Minor Lithology
X	

Percent Terrigenous Texture		
Sand	Silt	Clay
30	50	20

Comments:

Birefringent coatings on grains (sand) are common; a larger amount of rock fragments is present, but this is also due to coarse sand presence. Very poorly sorted sediment; iron oxide coatings on sand grains are found; Sand grain shapes are angular-subangular.

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Nannofossils
	Pteropods
	Ostracods
	Echinoderm
	Bivalves
	Bryozoans
	Corals
	Sponge spicules
	Other spicules
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others