

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

Expedition	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
347	59	D	17	H	2	72	73

Sediment	Silty sand at lithological boundary	Observer	J.P.
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Smear Slide

Dominant Lithology	Minor Lithology
	X

Percent Terrigenous Texture		
Sand	Silt	Clay
3	80	17

Comments:

Mainly silt; however sand grains are visible macroscopically. Brown hornblende in sand fraction and rounded quartz, also subangular quartz, sand is poorly sorted. Clay minerals are present, perhaps iron phases. Overall a ~~very~~ poorly sorted sediment, no biogenic debris that is visible at 40x magnification.

Percent	Component
SILICICLASTIC GRAINS/MINERALS	
	Framework minerals
80	Quartz
3	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
tr	Biotite
	Muscovite
	Chlorite
15	Clay sized fraction
	Glaucinite
tr	Ferromagnesian minerals
tr	Other dense minerals
	Authigenic minerals
	Zeolite
	Pyrite
	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
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
tr	Organic debris
	Plant debris
	Fish remains (teeth, bones, scales)
	Others