

Supplemental File S7 A. Core Top Observations for cores offshore of northern Sumatra, in region of 2005 SASZ earthquake.

Core	Possible Recent Turbidite	OSU Core Logs				Wynn Core Logs			Bioturbation (CT)	Radiometric Age Consistency		Munsell Color	Oxidation Present
		Munsell Color	Descriptive Color	Foraminifera Presence	Notes	Descriptive Color	Foraminifera Presence	Notes		<sup>14</sup> C	<sup>210</sup> Pb		
2004													
RR0705-109MC	yes	--	--	--		##	##	--	no	--	--	--	no
RR0705-108TC	yes	--	--	--	graded upward fining turbidite unit, rich in quartz, mica, and forams	##	##	--	no	--	--	--	no
RR0705-108PC	yes	GLEY 1 5/N SY 4/3	--	--	v.f.sand mica rich forams?	##	dark gray	--	no	--	--		no
RR0705-01GC	yes	SY 4/2	olive brown	--	mud	##	##	qtz mica sand flow in at core top?	no	--	--		no
RR0705-03TC	no	--	olive gray	--	silty mud	##	##	qtz mica sand	yes	--	--		yes
RR0705-03PC	no	SY 4/2	olive brown	--	--	##	##	--	yes	--	--		yes
RR0705-05TC	no	SY 4/2	olive; dark	--	silty mud	##	##	--	yes	--	--		yes
RR0705-05PC	yes	SY 4/2	greenish brown	--	greenish gray	##	##	--	no	--	--		yes
RR0705-107TC	no	2.5Y 4/1	dark gray	--	m. silt	##	##	--	yes	--	--		no
RR0705-107PC	yes	GLEY 1 3/10Y	--	--	c. silt	##	##	--	no	--	--		no
RR0705-105TC	no	--	olive gray	--	fine sand lent with a lot of black micas; upward decrease grainsize sequence from fine sand (very bioturbated black and white micas) to silt	##	##	--	yes	--	maybe		maybe not
RR0705-106TC	no	10YR 5/2		yes	calcareous clay foram bearing	##	##	--	yes	--	--		yes
RR0705-106PC	no	10YR 5/2 SY 4/1	--	--	nanno foram ooze upward fining sand to c. silt; inclined qtz rich sharp base	##	##	--	yes	--	--		yes
RR0705-104TC	yes	SY 3/2	--	--	v. f. sand	--	--	disrupted fine qtz-mica sand w/irreg. mud clasts from below. Note some sand present at top of TC	no	--	--		no
RR0705-104PC	no	SY 4/3	--	--	greenish gray	--	--	--	yes	--	--		no
RR0705-102GC	no	SY 4/2	olive gray	--	muddy v.f. sand	--	--	--	yes	--	--		no
RR0705-12GC	yes	SY 4/2	olive gray	--	upward grainsize decrease	##	##	--	no	yes	yes		no
RR0705-102MC	yes	SY 4/2	olive gray	--	sequence from medium sand (High amount of forams/black micas and white micas) to silt also with forams	##	##	--	no	yes	yes		no
RR0705-103TC	no	--	olive gray	yes	medium sand, lots of micas and forams	##	##	--	yes	--	--		no
RR0705-103PC	no	2.5Y 4/1	--	--	silt forams	##	##	--	yes	--	--		no
RR0705-15GC	no	SY 5/3	--	yes	brownish gray	yes	--	muddy fine sand with abundant forams and quartz / mica	yes	--	--		yes
RR0705-16GC	no	SY 5/3	olive	yes	forams in all section	varying color	yes	--	yes	no	--		yes
RR0705-18GC	no	--	dark olive brown	yes	v.f. sandy foram mud with mica and glass, few mica, biogenic laminated	--	--	--	yes	no	--		yes
RR0705-101GC	no	10YR 5/1		yes	foram ooze with v.f.-f.s. sized sand grains and mica	pale brown	yes	muddy fine sand rich in forams and mica	yes	--	--		yes
RR0705-100MC	no	--	--	--	silt without laminations, structures	##	##	--	yes	--	--		maybe yes
RR0705-97MC	yes	--	dark gray	--	clayey silt	##	##	--	no	--	--		no
RR0705-96TC	yes	2.5Y 4/1	--	--	soil	##	##	soil structureless fine qtz-mica sand; V. recent double turbidite (2004-2005 event)	no	yes	yes		no
RR0705-96PC	yes	SY 4/2	--	--	~60 cm of very soupy turbidite mud; No oxidation; v. young event?	greenish gray	--	--	no	yes	yes		no
RR0705-95PC	yes	SY 3/1	--	--	Clean mica rich v. f. sand	##	##	--	no	--	--		no
RR0705-98TC	no	--	olive brown	--	mud, silt w/bioturbation	##	##	--	yes	--	--		yes, no top
RR0705-98PC	no	SY 4/1	--	--	silt	brownish gray	--	--	no	--	--		yes, no top
RR0705-99MC	yes	SY 4/2	olive brown	--	silt	##	##	--	no	--	--		maybe not
RR0705-19GC	no	--	olive gray brown	--	silty mud	##	##	--	no	--	--		yes
RR0705-20GC	no	SY 4/3	olive	--	--	##	##	--	yes	--	--		maybe yes
RR0705-21GC	no	SY 4/3	olive	--	--	##	##	--	--	--	--		maybe yes
RR0705-94PC	yes	2.5Y 4/2	dark grayish brown	--	mud - silt	greenish gray	--	soupy silty mud	no	--	yes		maybe yes, core disturbance

-- no observation

## no log

Supplemental File S7 B. Core Top Observations for cores offshore of northern Sumatra, in region of 2004 SASZ earthquake.

Core	Possible Recent Turbidite	OSU Core Logs				Wynn Core Logs			Core Data	Radiometric Age		Munsell Color	Oxidation Present
		Munsell Color	Descriptive Color	Foraminifera Presence	Notes	Descriptive Color	Foraminifera Presence	Notes		<sup>14</sup> C	<sup>210</sup> Pb		
2005													
RR0705-91MC	yes	SY 4/2	olive gray	yes	decreasing grain size upward sequence from fine sand to silt; presence of forams and larger micas	##	##	--	yes				yes
RR0705-92TC	no	SY 4/2	olive gray	--	grain size decreasing upward sequence f. sand to silt	##	##	--	no				no
RR0705-92PC	no	2.5Y 4/1	--	--	silt, oxidized	##	##	--	no				yes
RR0705-93TC	yes	--	--	--	--	##	##	--	no				no
RR0705-93PC	no	2.5Y 4/1	--	--	silt	brown	--	disturbed mud with v. fine sand	no				yes
RR0705-23GC	no	SY 4/2	olive gray	--	--	##	##	--	yes				yes
RR0705-23GC	no	SY 4/2	olive gray	--	--	##	##	--	yes				no
RR0705-24GC	no	--	olive brown	--	--	##	##	--	yes				yes
RR0705-89TC	no	2.5Y 4/2	dark grayish brown	--	silt hemipelagic	##	##	--	yes				yes
RR0705-89PC	no	2.5Y 5/3	light olive brown	--	silty v.c. sand	##	##	--	yes				yes
RR0705-90MC	yes	SY 4/3	olive	yes	silt-clay, forams, burrows, black micas	##	##	--	no				yes
RR0705-88TC	yes	SY 4/2	brown	--	hemipelagic (?) sediment	##	##	--	no				no
RR0705-88PC	no	GLEY 4/N SY 5/1	--	--	silt	grayish mud	--	mud	no				no
RR0705-26GC	no	--	dark gray	--	bioturbated v. f. sand	greenish gray	--	silty mud	yes				no
RR0705-27GC	yes	--	SY 4/2	--	--	greenish gray	--	silty mud	yes		</td		