M

Part 3:

For each depositional environment, predict what characteristics of the sediment deposited

Depo. Environ.	Rock type(s)	Sorting and rounding	Sed. Structures	Fossils (body and/or trace)	
River – channel	conglomovate Sandstone	well Rounded well sorted	Ripple modes		
River – Floodplain	Shole, Sult/clay	well sorted Rainded	Scau mortes Muderodes	planto and some animals	
Dune field	Sandstone	Well sorted Round	Cross Bedding	maybe phonto	
Playa Lake	silt, day	well sorted	mudcracks	Those Finil	
Alluvial Fan	conglomerate	poonly sorted angular	Cross bedding	note some med not	
Glacial Terminus	conglomenate	poorly Sorted Angular	N/A	N/A	
Swamp	Coal	well Sorted	and cracks	vegetation and ledy funils	
Delta	mudatore. Soundatione	well sorted Round	scour marks	and figh	
Beach	Sand Stone	well sortes Yound	Riphles	moll abells and restres	
Tidal Flat	muditions Sandritins	well sorted round	muduak Nyple molks	Sheep and	
Continental shelf/platform	linestrone Ohole, somantoni	well sorted Round	graded Bed	o dish lawal	
Reef	Limentone, Choolk,	n/A	n/A	cond Foriels	
Deep Ocean	lineabore mudations	well sorted Rama	gricavid Beas	amor fish / Worth /shall	

## Interpreting Depositional Environments by Observing Sedimentary Rock

Learning objectives:

- Determine what types characteristics of sedimentary deposits can be used as clues for interpreting depositional environment
- Become familiar with the different types of depositional environments
- Define the sedimentological and fossil characteristics that typify the deposits formed in each depositional environment

## Part 1:

List the types things you can look for (i.e. observations you can make) in a sediment rock or a sedimentary bed that might tell you something about depositional environment:

Brainstorm area:	coming Silver	1. Grown pinze
Diamstorm area.	-grain size	2. Sedurintions Shurtines
	-Amgular or circular	3. Sorting
	- Sections	4. Rounding
	- Sorting	5. Type of Rak
	- coeo -connoution	6. Bed Hickmen
	- lastion	7. Firmlo (Trace + Firml)
	- (Joodon)	8. <u>Seid Gerandry</u>

## Part 2:

For each image on the powerpoint slides shown in class, name the depositional environment and indicate whether it is a non-marine, transitional, or marine depositional environment by marking an X on the table

Image	Depo. Environ.	Terrestrial	Transitional?	Marine?
		?		
Α	Sand Rune	V		
В	Playa libre.			
С	River	<b>/</b>		
D	Flood plane.	V		
Е	Allurio plane	V		
F	Glorid Depoit			
G	Swomp			
Н	Deotra		V	
1	Beach		V	
J	Tidle Flots		V	
K	Continental Shoul			V
L	Deoro Morumo			V,
m	Coral			