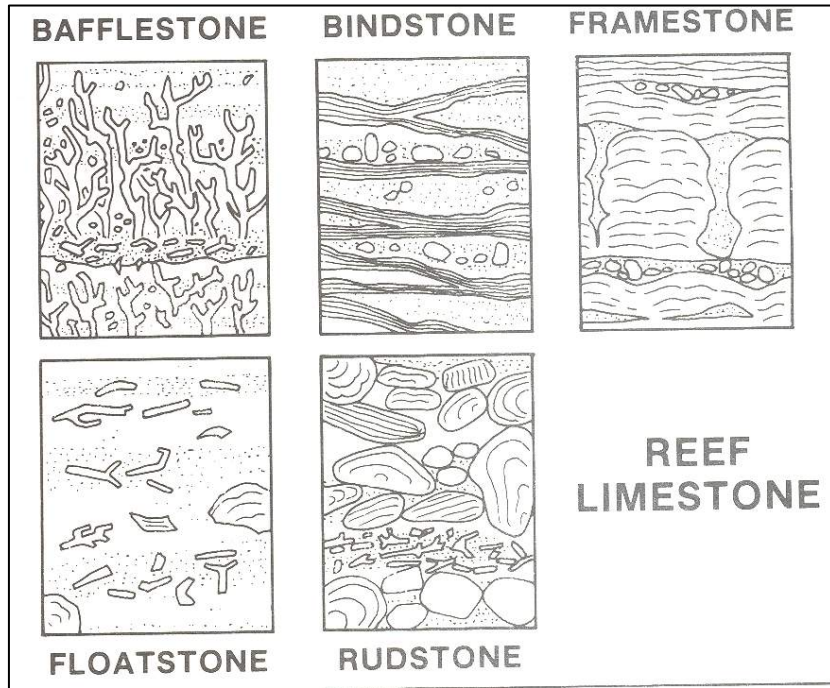


## GY 402 Sedimentary Petrology

### Lecture 20: Carbonate Petrology 1: Tidal Flats

Allochthonous Limestone Original components not organically bound during deposition					Autochthonous Limestone Original components organically bound during deposition				
Less than 10% >2 mm components				Greater than 10% >2 mm components		By organisms that build a rigid framework	By organisms that encrust and bind	By organisms that act as baffles	
Contains lime mud (<0.03 mm)			No lime mud		Matrix-supported				Supported by grain components coarser than 2 mm
Mud-supported		Grain-supported							
Less than 10% grains (>0.03 mm <2 mm)	Greater than 10% grains								
Mudstone	Wackestone	Packstone	Grainstone	Floatstone	Rudstone	Boundstone			
						Framestone	Bindstone	Bafflestone	

Source: Prothero, D.R. and Schwab, F., 1996. *Sedimentary Geology*. W.H. Freeman, 575 p.



Source: Walker, R.G., 1984. *Facies Models*. Second Edition. *Geoscience Canada*, 317p.

## Notes

---