

Sediment Lab

Hand Samples

1. Cross-bedded sandstone. What is the sorting in this sample?
2. oolitic limestone. Sketch the texture.
3. Conglomerate. What is the sorting in this sample? How is it different from 1? What does this tell you about the environment of deposition?
4. Sandstone.
5. Arkosic sandstone. How does this sandstone differ from 1 and 4? What do those differences tell you about the maturity of the sediments and their provenance?
6. Fossiliferous sandstone. Sketch two or three of the fossils (don't forget to put a scale!)
7. Fossiliferous limestone. 6 and 7 both contain fossils but what do the differences between the two tell you about depositional environments? Would you expect to see differences in the fossils present (assuming they were from the same time)?
8. Shale.