

Geology 135 Sedimentation
Exam 2 Review - Fall 2003

1. The contrast between lithostratigraphy, and chronostratigraphy (biostratigraphy, magnetostratigraphy, and allostratigraphy. Transgressions, regressions, members, formations, groups, supergroups. (ch. 18 and ch. 20 - Correlations)
2. The significance of and different types of unconformities – angular unconformity, disconformity, nonconformity. (ch. 18)
3. Biostratigraphy – different types of biozones (ch. 19)
4. Eustasy and the variety of mechanisms for generating eustatic sea level changes. (ch. 21)
 - Sea floor spreading rate
 - Glaciation
 - Ocean temperature / salinity
 - Lake / aquifer volume
5. The influence of astronomical cycles on climate – Milankovitch cycles. (ch. 21)
 - Insolation – seasonal distribution of heat across the globe
 - Precession cycle – wobble of Earth's axis
 - Obliquity cycle – change in degree of axial tilt
 - Eccentricity cycle – change in shape of Earth's orbit
6. The different types tidal cycles and sedimentary record of tides: (ch. 11)
 - Flood tide / ebb tide
 - Semi-diurnal / Diurnal tides
 - Spring-Neap (syzygy)
 - Apogee-Perigee
 - couplets