

ALLUVIAL FANS AND RIVERS (and the differences between them!)

Small Alluvial Fan (cone), French Alps



Modern Alluvial Fan, Laguna Salada, NW Mexico



Surface of modern alluvial fan, debris-flow gravel, Laguna Salada



Exposure of poorly sorted gravel (debris flow), Laguna Salada



Miococene Conglomerate, Split Mt Gorge, CA. Lots of massive, poorly sorted ungraded conglomerate beds deposited by debris flow process.

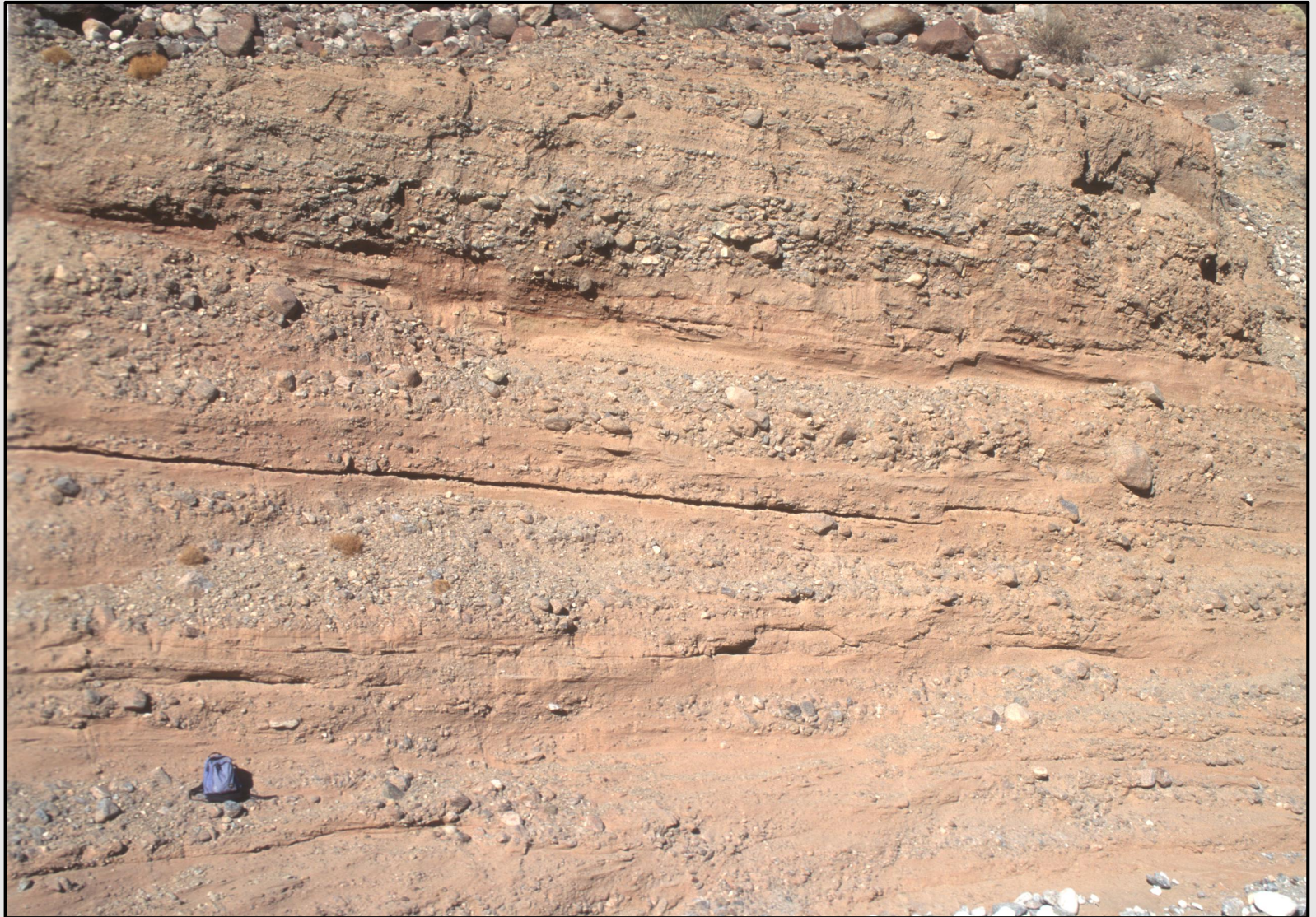




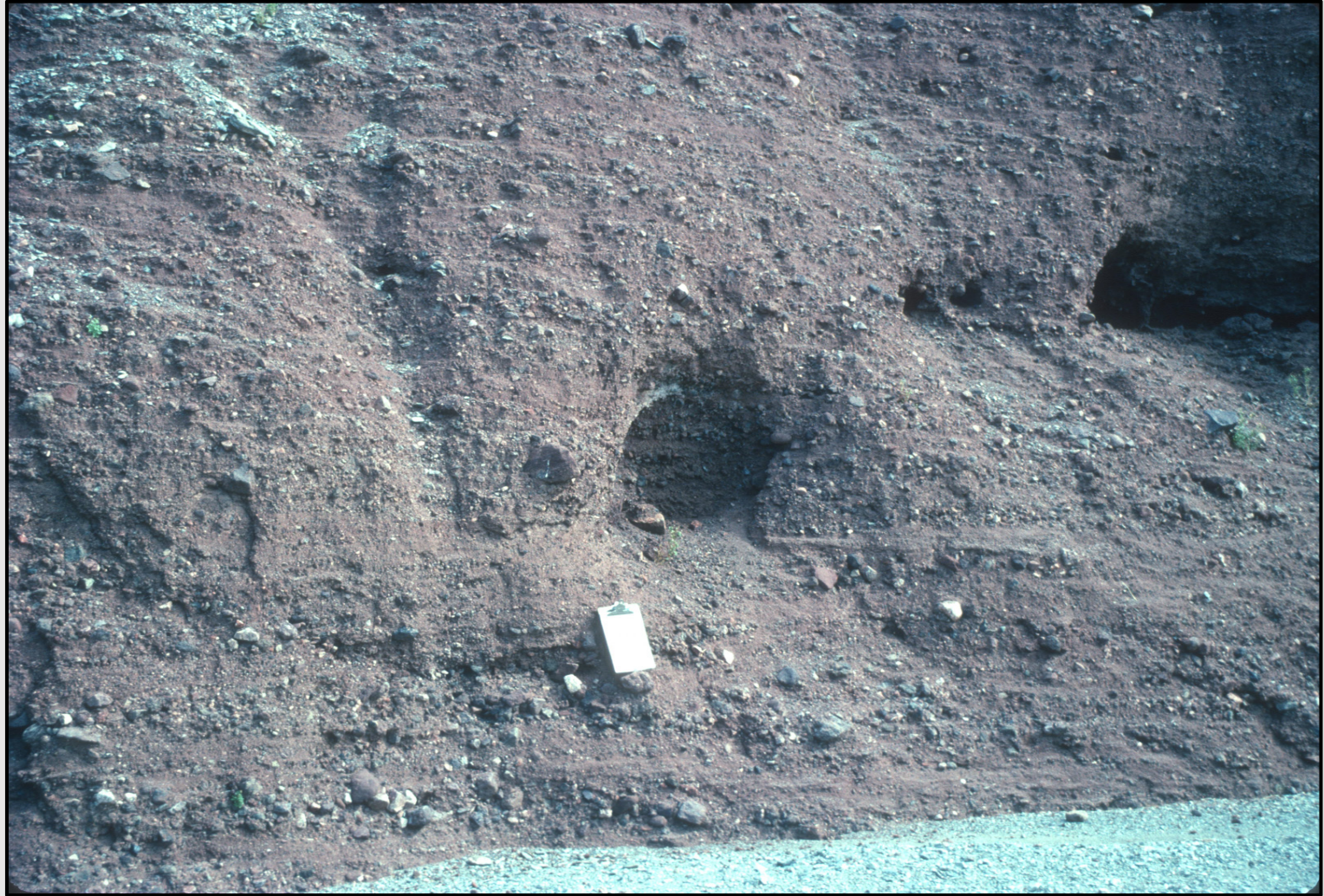
Miocene “megabreccia”
deposit, Split Mt Gorge, CA

Deposited by catastrophic
large rock avalanche.

Poorly sorted conglomerate and pebbly sandstone, Laguna Salada



Poorly sorted, horizontally stratified sandy pebble conglomerate (Miocene, Whipple Mts, CA): Process = deposition from sheet floods.



Modern Braided Stream (glacial outwash), Alaska



Modern Braided Stream, Eastern Taiwan





Cross Bedded sandstone
and pebble conglomerate

Channel-fill pebble conglomerate



Modern meandering stream (river)



Cross-bedded fluvial sandstone and mudstone
(Pliocene, Fish Creek Wash, CA)



Fluvial mudstone-dominated overbank (flood plain) deposits
(Pliocene, southern Santa Rosa Mts., CA)

