Laboratory Key #4 - Geologic Surface Processes in Dry Lands

- 1. TX, AZ, CA (and many others possible)
- 2. CA, AZ, NM (and others possible)
- 3. Mid-latitude (rain shadow) deserts
- 4. Upland (intermittent) streams (bajadas, alluvial fans, playa lakes....etc.... see Figure 3)
- 5. Sand dunes, pedestal rock, desert pavement, ventifacts (see Figure 2)
- 6. 36° 15' N, 117° 5' W
- 7. Mid-latitude (rain shadow) deserts
- 8. Death Valley is early stage
- 9. Death Valley will become late stage
- 10. Mountain Ranges
- 11. around the upland streams and the playa lake (sources of water)
- 12. Streams carry all of their load (including chemicals in the dissolved load) to the valleys where they evaporate and leave the chemicals behind in the playas.
- 13. Playa Lake
- 14. they are Intermittent
- 15. an alluvial fan
- 16. Southeast
- 17. small brown dots
- 18. < 5 %, and the words 'sand dunes' do NOT appear in the definition of a desert
- 19. a bajada
- 20. -282 ft
- 21. 14 miles

- 22. (9064 ft 282 ft) / 14 miles = 667.57 ft/mile
- 23. Inselbergs
- 24. Pediment the flat, sediment-filled, region between inselbergs
- 25. Late Stage
- 26. (3690 ft 2200 ft) / 21.5 miles = 69 ft/mile
- 27. the Rio Grande is a lowland river
 - wide, permanent channel
 - meanders
 - adjacent floodplain
- 28. the intermittent streams are upland streams
 - small channels
 - relatively straight
 - no floodplains
- 29. NOT eolian, no sand dunes or desert features on the map
- 30. Fluvial, lowland river and upland streams are the dominate features on this map