



Approach

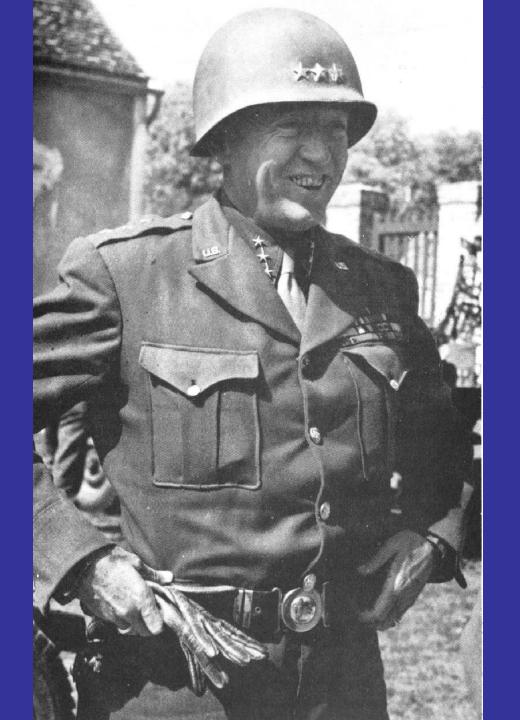
	Short-term (50 yrs.) maps	Long-term (10 ³ to 10 ⁴ yrs.) isotopes
Small-scale (m)	1	2
Large-scale (km)	N/A	3





Global Positioning Systems (GPS; left)

Accelerator Mass
Spectrometery (AMS; top)





Desert Training Center 1942 to 1944

- Over 1,000,000 men
- 12 base camps
- Size of Vermont







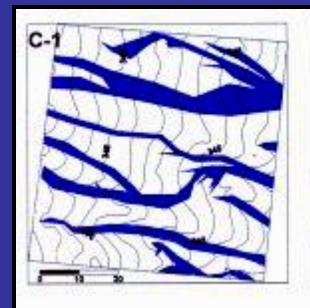
Why use Iron Mountain?

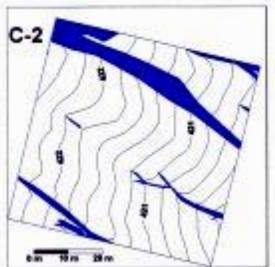
- 2 years channel alteration (Army tanks, marching soldiers, etc.)
- No significant disturbance since
- Discrete time-frame of channel response to intense use (1944 to present).
- Ability to survey channels on the centimeter scale using differential Global Positioning System.

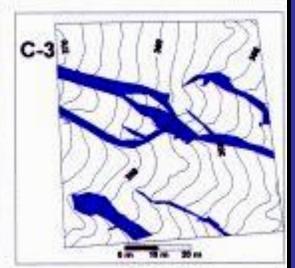
Centimeter-scale topographic mapping

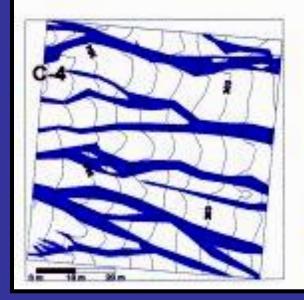
- 6 Control Plots representative of piedmont channels outside of Camp Iron Mountain
- 6 Walkway Plots representative of piedmont channels forming in areas of intense foot trafficked areas
- 6 Road Plots representative of piedmont channels forming downgradient of road berms

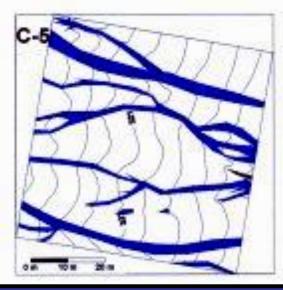


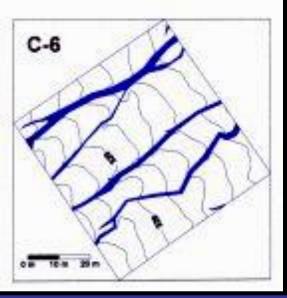


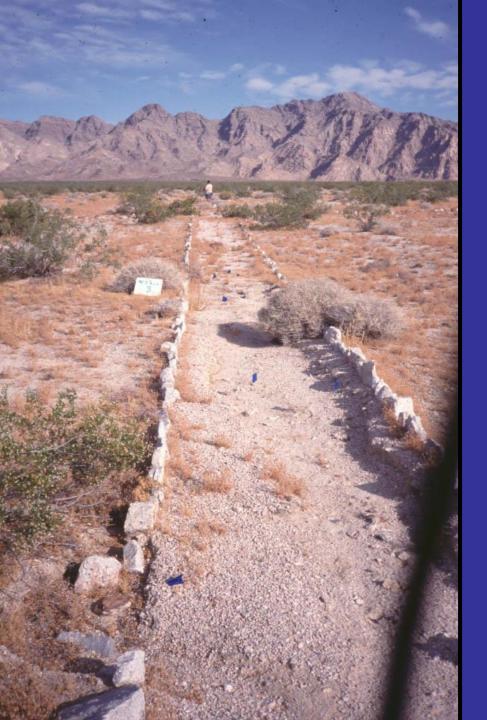




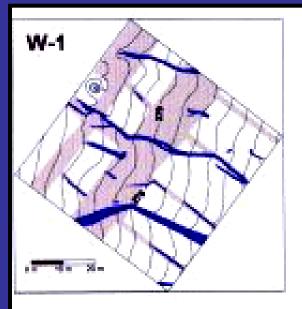


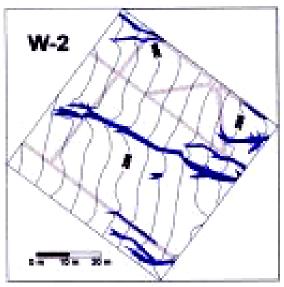


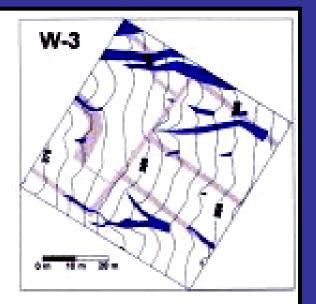


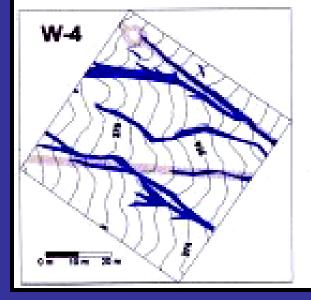


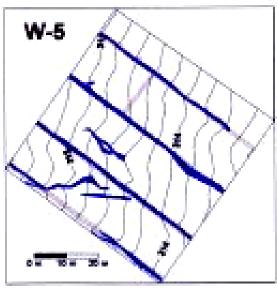
Typical Walkway Area

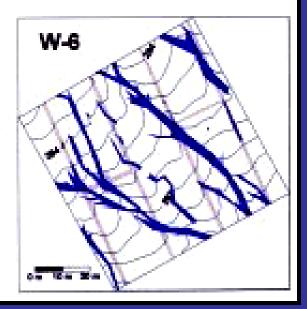


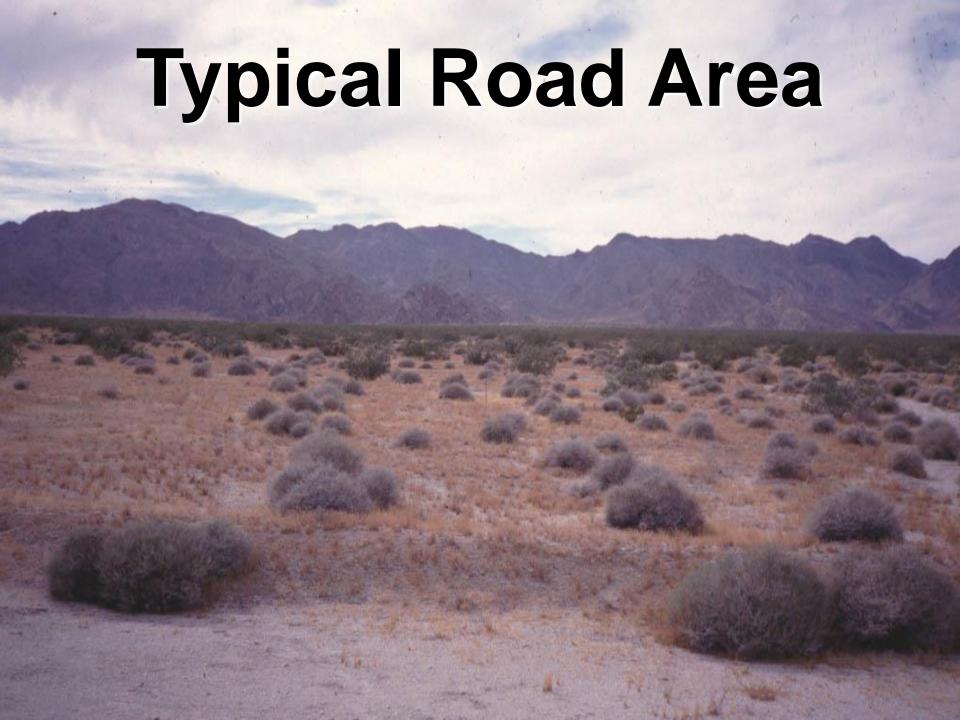


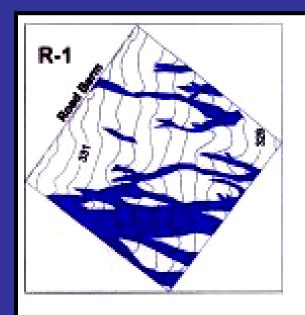


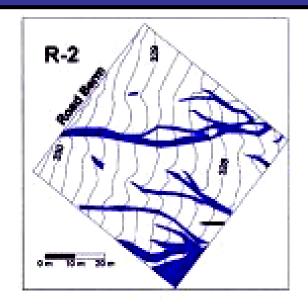


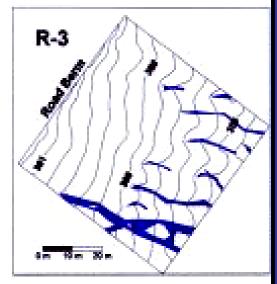


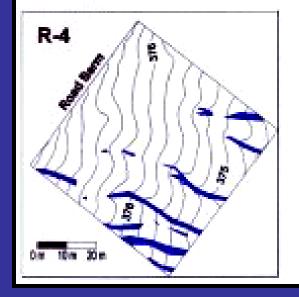


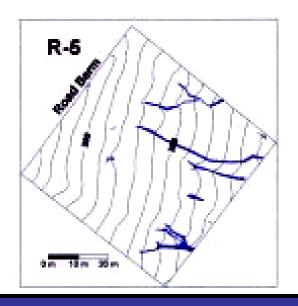


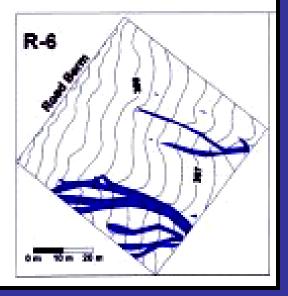


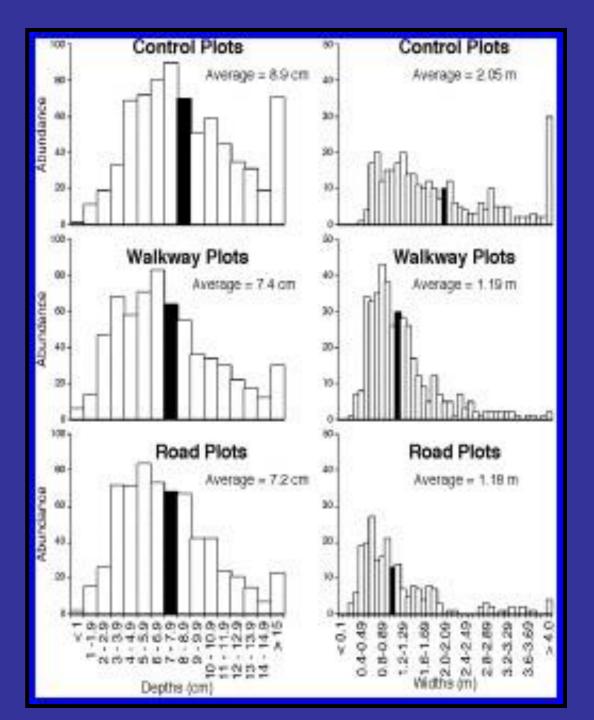












Channel orientations

