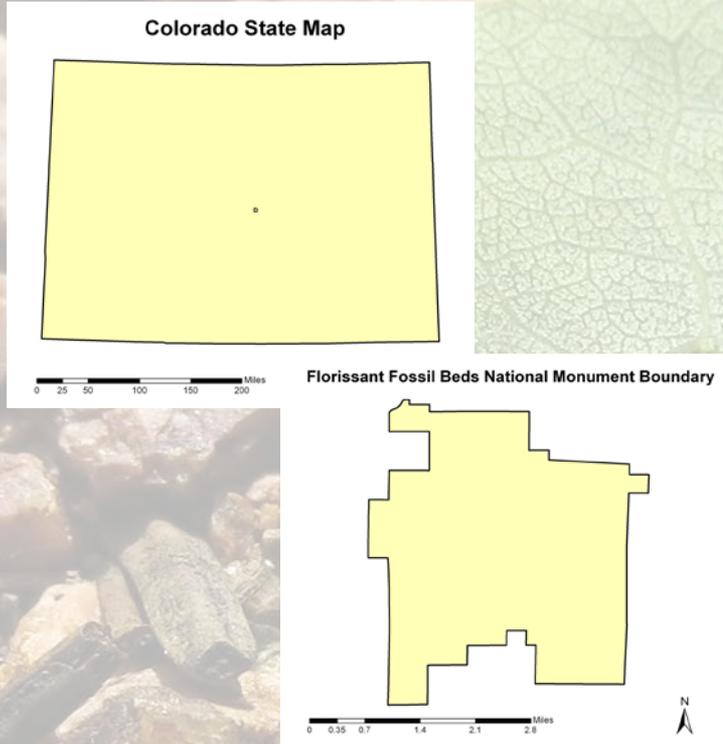




# Mosaics Position at Florissant Fossil Beds

Presented by  
Selva Marroquín

# Florissant Background

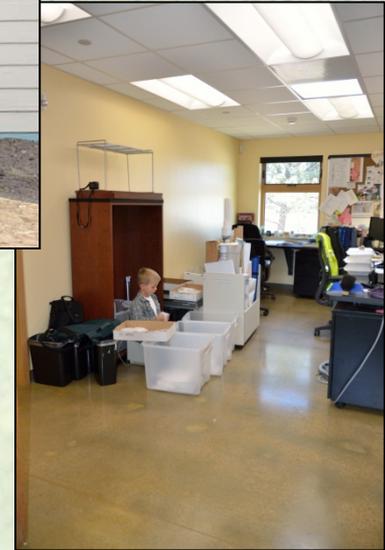


- Located an hour west of Colorado Springs
- 6,000 acres
- Eocene in age (apx. 34 million years)

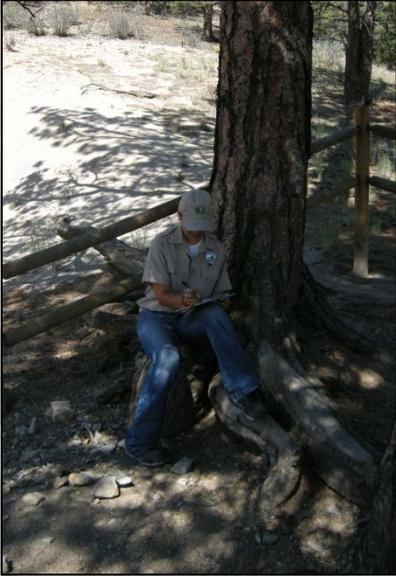
- Known for preserved redwoods and pristine leaves and insects



# The Collections Move (6/2 – 6/7)



# Inventory and Monitoring Purpose



- Way to assess and monitor the condition of different fossil sites around the park
- Monitor events such as theft or excessive erosion that may need mitigation

- Helps maintain fossil resources in order to preserve them for future generations



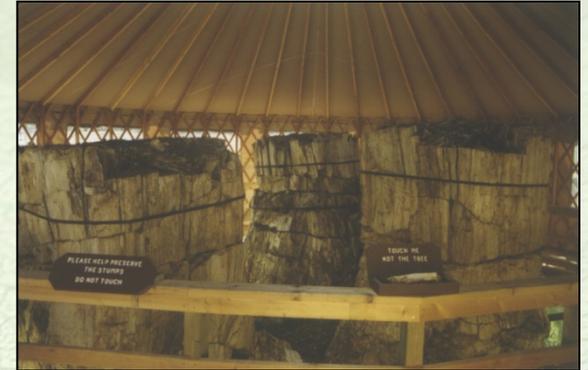
1992



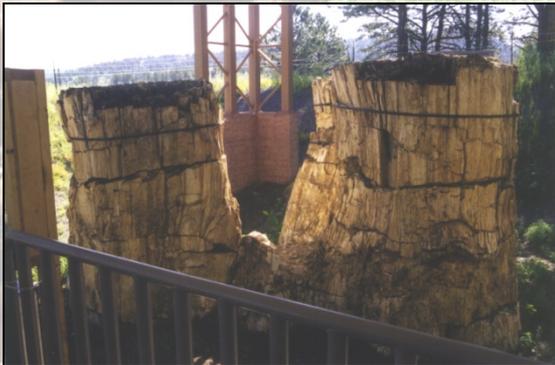
1994



2001



2003



2008

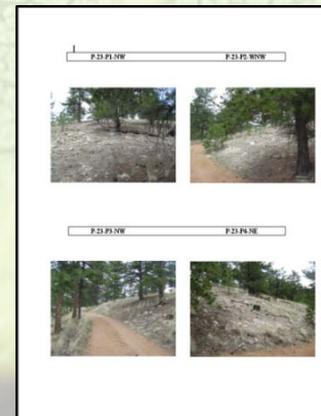
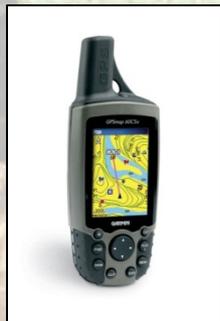


2011



# Inventory & Monitoring Process

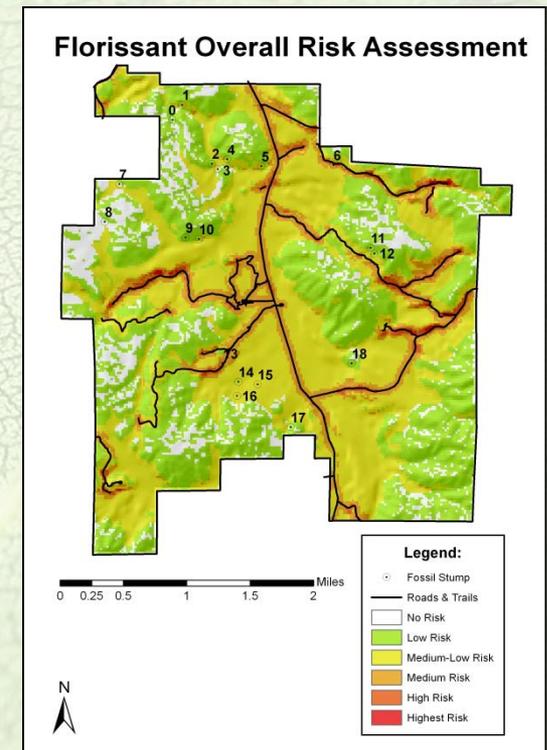
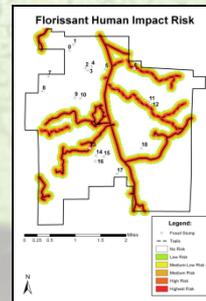
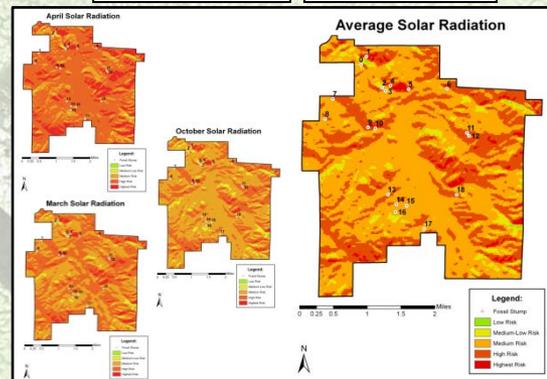
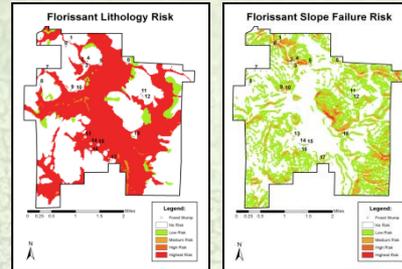
- Sites monitored on yearly rotations
- Set number of photographs at specific locations to monitor changes over time
- Site evaluation monitors overall condition of site and any issues it might have



SITE EVALUATION FORM			
Evaluator	Whitmore	Date	6/3/08
		Site	90
Disturbance	10	Actual Loss	10
Disturbance Mitigation	15	Loss Mitigation	10
Fragility	20	Site Access	0
Fragility Mitigation	0	Access Mitigation	20
Fossil Abundance	0		
			<b>85</b>
			<b>GOOD</b>
Petrieved Stump			
None			
Illegal collecting evident, moderate loss, mitigation by way of barrier and increased patrolling in process			

# Risk Assessment

- Geologic erosion factors (lithology and slope)
- Climate erosion factors (solar radiation)
- Human impact
- Compiled into overall risk assessment map



# Fossil Digitization Project

- Aims to digitize every fossil in the collection
- Use macrophotography and microphotography



- Photoshop CS5.5 used to improve the clarity of pictures if necessary
- Photographs will be uploaded into a public access database in the future







Thank you, for your support of this program and allowing me this opportunity

