

The Status of America's Geologic Heritage

The Sequester Edition

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Geologic Heritage is the Fun Stuff



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U.S. Geologic Heritage Status



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Iconic Resources

- World Heritage Sites
- National Natural Landmarks
- National Landscape Conservation System
- National Forest System
- Public Lands
- National Park System



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Protections

- Environmental laws
 - Clean Air, Clean Water, NEPA
- Antiquities Act
- Cave and Karst Resource Protection Act
- Paleontological Resource Protection Act
- Geothermal Steam Act



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Geologic Heritage Checklist

- Lands
- Funding
- Access
- Facilities
- Education
- Tourism
- Support

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Geologic Heritage Checklist

- ✓ Lands
- ✓ Funding
- ✓ Access
- ✓ Facilities
- ✓ Education
- ✓ Tourism
- ✓ Support

**STATUS:
GOOD**

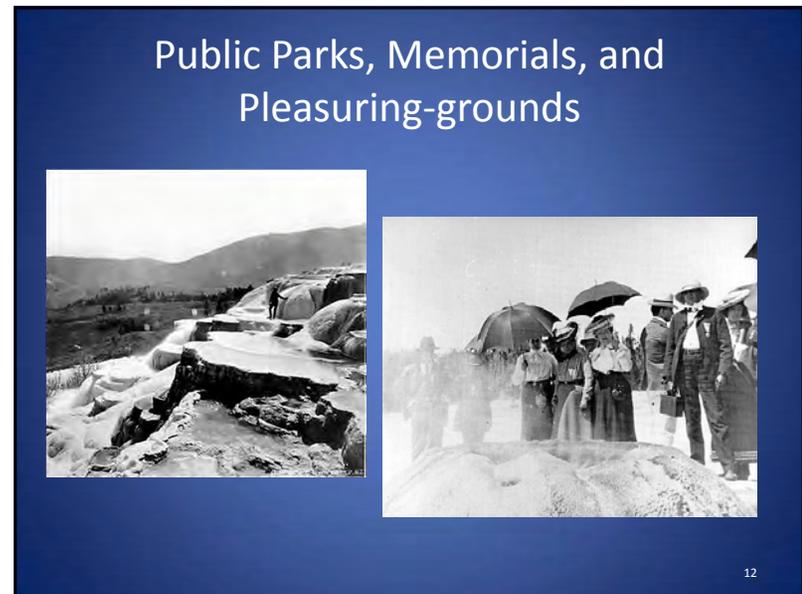
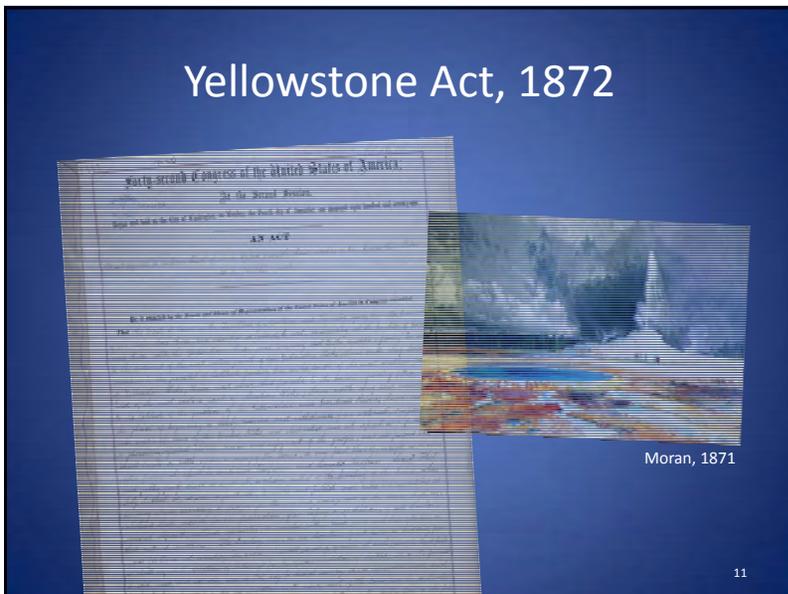
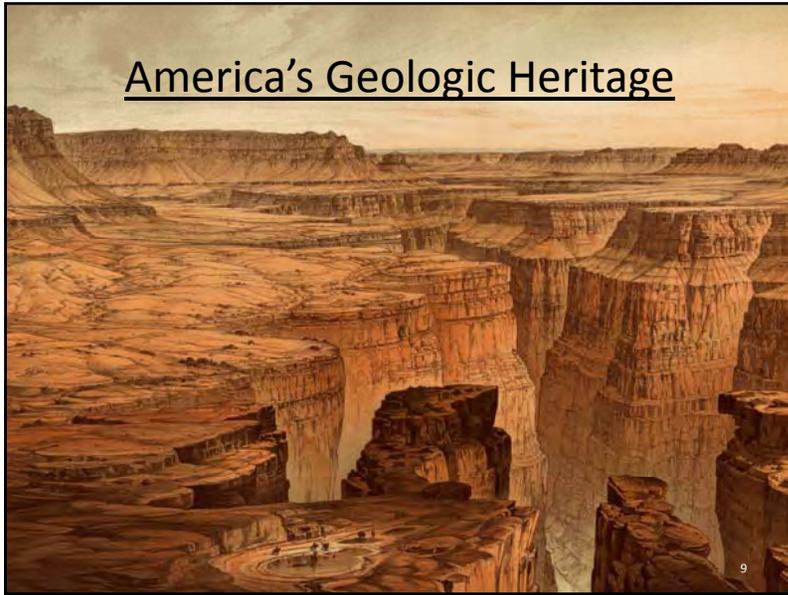
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What is Geologic Heritage?

Heritage
America's Heritage
America's Geologic Heritage

GH Resources
GH Conservation
GH Partnership

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Antiquities Act, 1906

- Led to the preservation of many of the country's most cherished places
- Grants the President the authority to create national monuments
- 103 sites of natural or cultural significance
- Managed by NPS, BLM, USFS, USFWS, or local jurisdictions

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- President Theodore Roosevelt designated Devil's Tower in Wyoming as the first national monument on September 24, 1906.



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Geo-Tourism



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Geologic Heritage Resources

- World Heritage Sites
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Geologic Heritage in Your Backyard

A collage of images related to geologic heritage. On the left is the cover of the book "PARKS PLATES" which features a landscape with mountains and a lake. On the right is the cover of the book "EXPLORING THE FOSSIL FREEWAY" which features a fossil. In the center is a photograph of a young boy in a grey t-shirt with "INSIDE" written on it, holding up his hand in a gesture.

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Geologic Heritage Resources

Designated

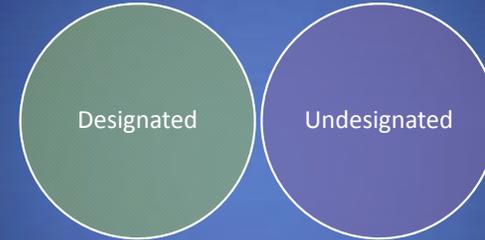
- State Parks
- Scenic Byways
- World Heritage Sites
- National Natural Landmarks
- National Landscape Conservation System
- National Forest System
- Public Lands
- National Park System

Undesignated

- Scenic Overlooks
- Points of Interest
- Earth Caches
- Highpoints
- Fieldtrip Stops
- Outcrops
- High walls
- Road Cuts
- Community Landmarks

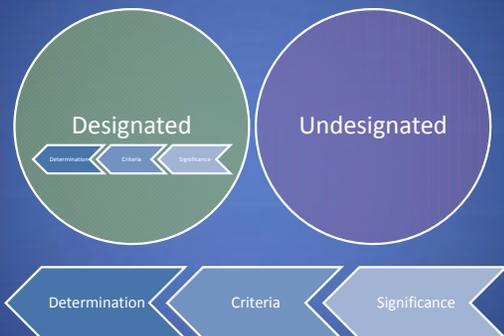
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Geologic Heritage Resources



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“Geologic Heritage”



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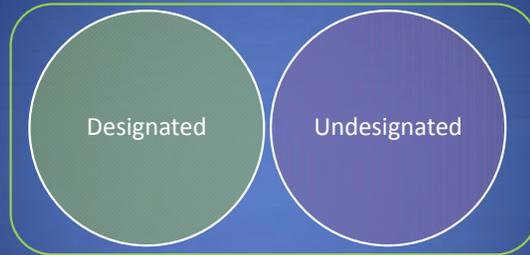
Boundaries and Brass Plaques

- Not everything in the boundary is significant
- Not everything that is significant is designated
- Boundary ≠ Protection



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Geologic Heritage Resources



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Geologic Heritage Resources

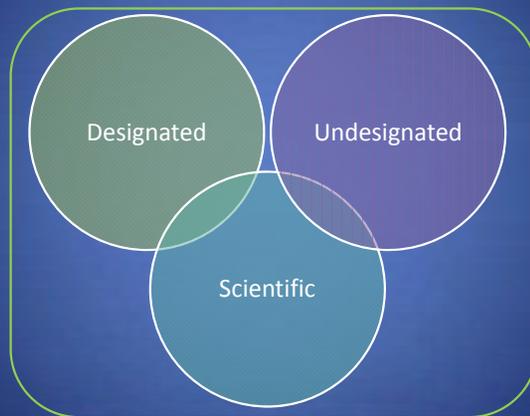
Scientific

- Type Locations
- Type Sections
- Museum Collections
- Ice Core
- Drill Core
- Data Sets
- Rare Mineral Occurrence



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Geologic Heritage Resources



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Geologic Heritage Sites



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Vulnerability and Risk

Resources at Risk (Significance x Vulnerability)



Threats to GH Conservation

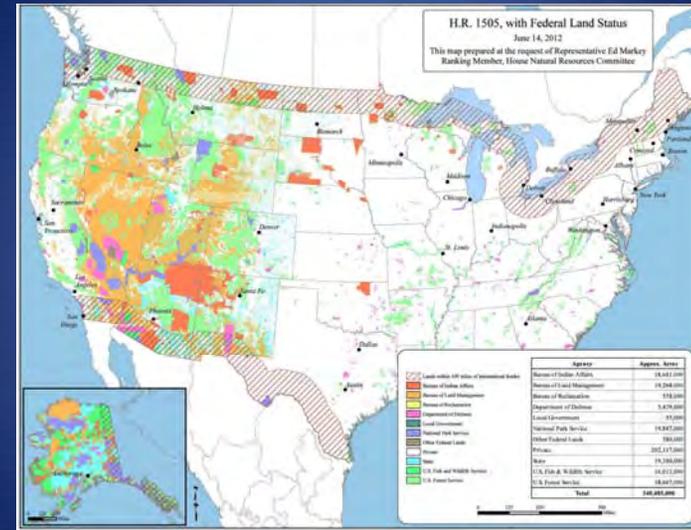


ANTHROPOCENE

approx. 1945 A.D. - present



A new geologic era with no precise start date. Marked by significant human impact on climate and ecosystems. Coined by Paul Crutzen. Rise of agriculture. Deforestation. Cement. Combustion of fossil fuels. Coal, oil and gas roused from the earth. Extraction and emission. Operation Crossroads vaporizes 70 acres of Bikini Atoll. Deep geologic repositories. Pacific Trash Vortex, a swirling gyre of marine litter and plastic. 6.7 billion humans + growing. Palo Verde Nuclear Power Plant. Hull-Rust-Mahoning open pit mine. Three Gorges Dam. Fresh Kills Landfill. Las Vegas. Dubai.

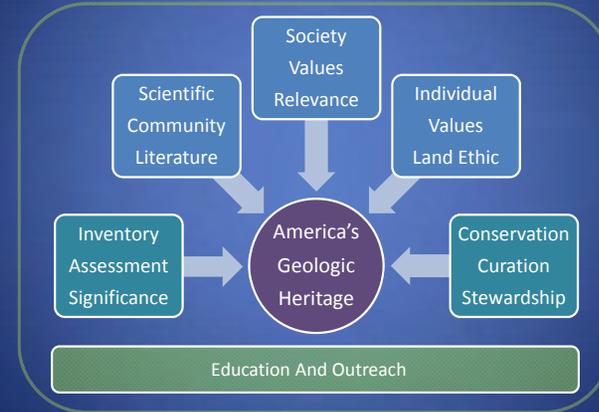


Geologic Heritage Partnership



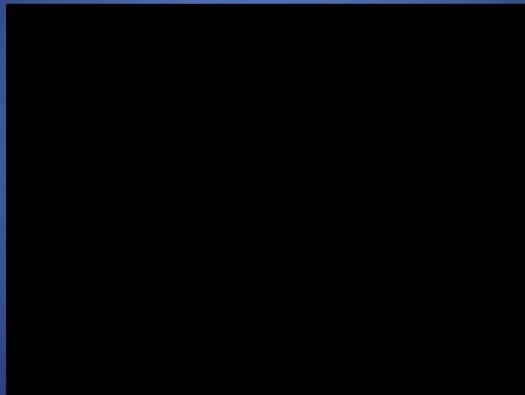
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National GH Partnership



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National Heritage Areas



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National Heritage Areas

- Community-based efforts
- Mixture of public and private property
- Join together around a common theme
- Promote cultural, natural, and recreational benefits
- Help revitalize communities, strengthen local economies, and create jobs



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NATIONAL FOSSIL DAY

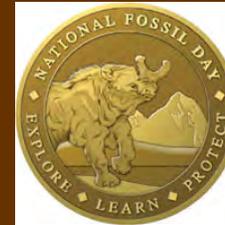
CELEBRATING THE SCIENTIFIC AND EDUCATIONAL VALUES OF FOSSILS



go.nps.gov/NFD

NATIONAL FOSSIL DAY

MISSION: National Fossil Day is a celebration organized to promote public awareness and stewardship of fossils, as well as to foster a greater appreciation of their scientific and educational values.



- EVENTS
- ACTIVITIES
- PARTNERS
- PRESIDENTIAL MESSAGE
- ART CONTEST
- NFD SONG
- JUNIOR PALEONTOLOGIST PROGRAM
- MORE

NATIONAL FOSSIL DAY & CHILDREN



NFD 225 Partners Strong



National GH Performance

- Unified
- Comprehensive
- Understood
- Effective
- Supported
- Cooperative
- Dialog Started

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GH Partnership Journey



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To Educate



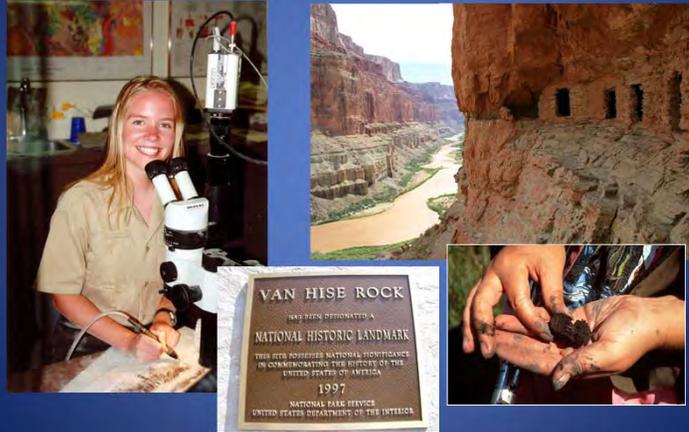
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To Inspire



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To Conserve



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For Future Generations



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