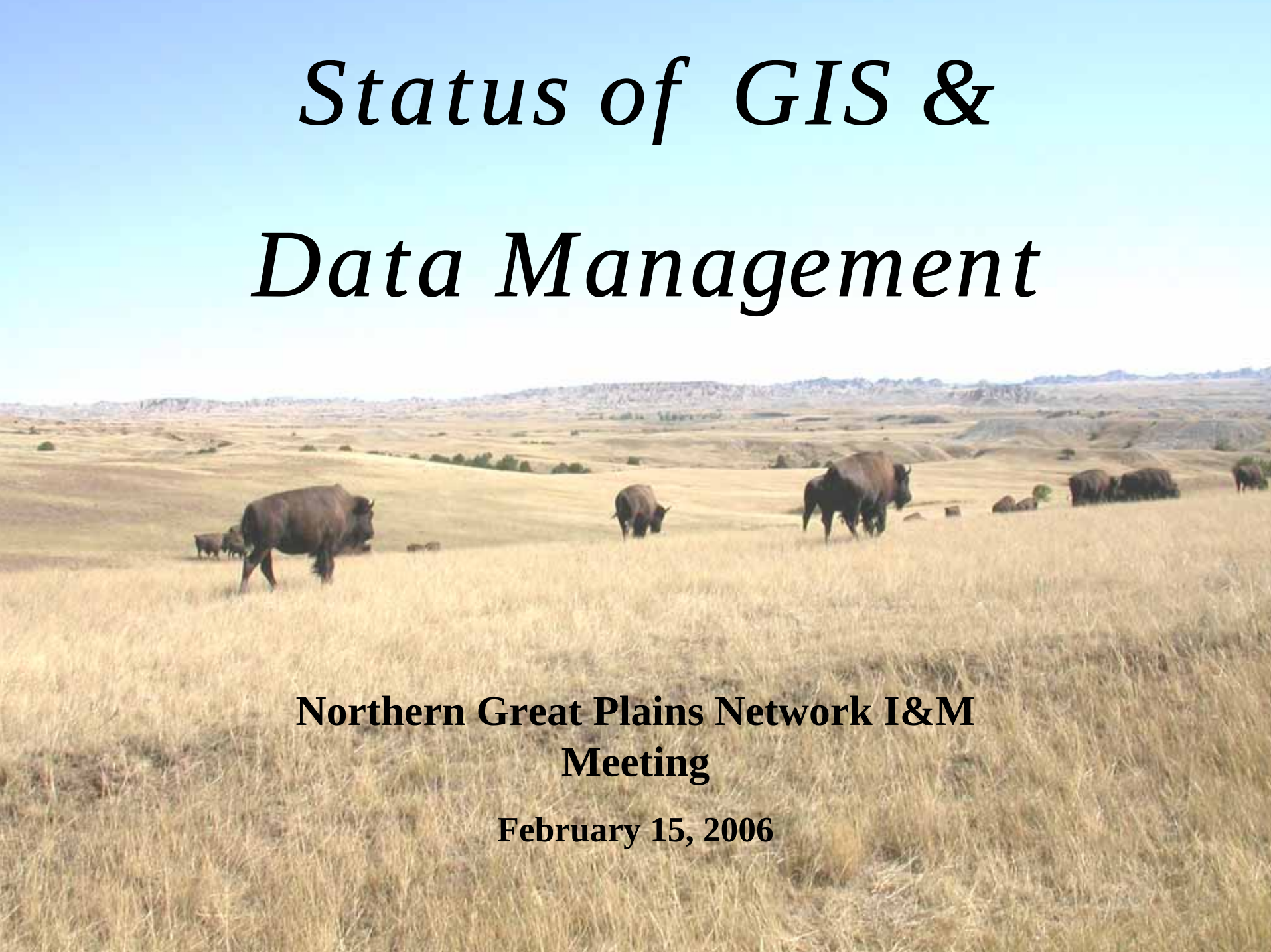
Status of GIS & Data Management



Northern Great Plains Network I&M Meeting

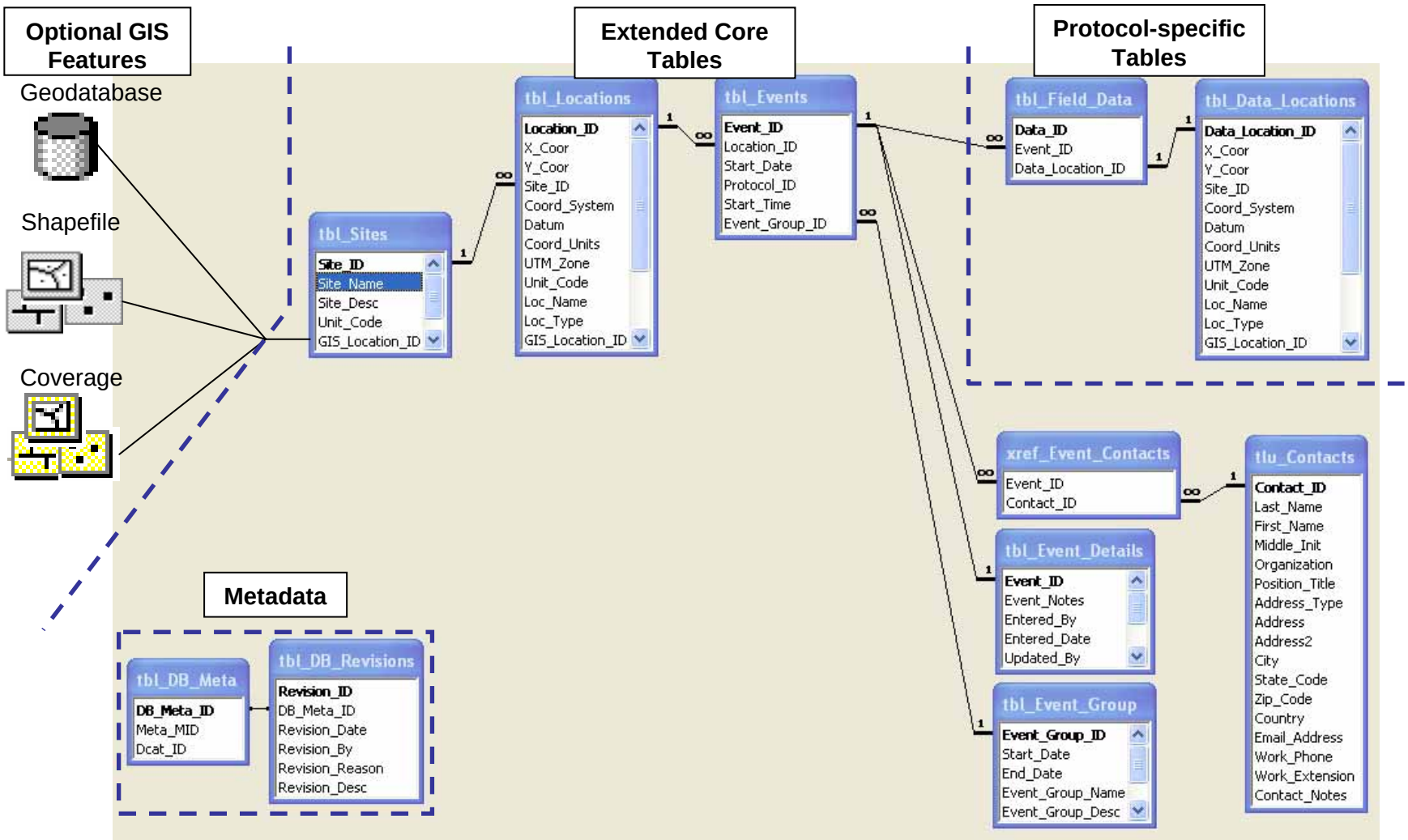
February 15, 2006

NGPN Data Management

Data Management Plan
Northern Great Plains Network

DRAFT

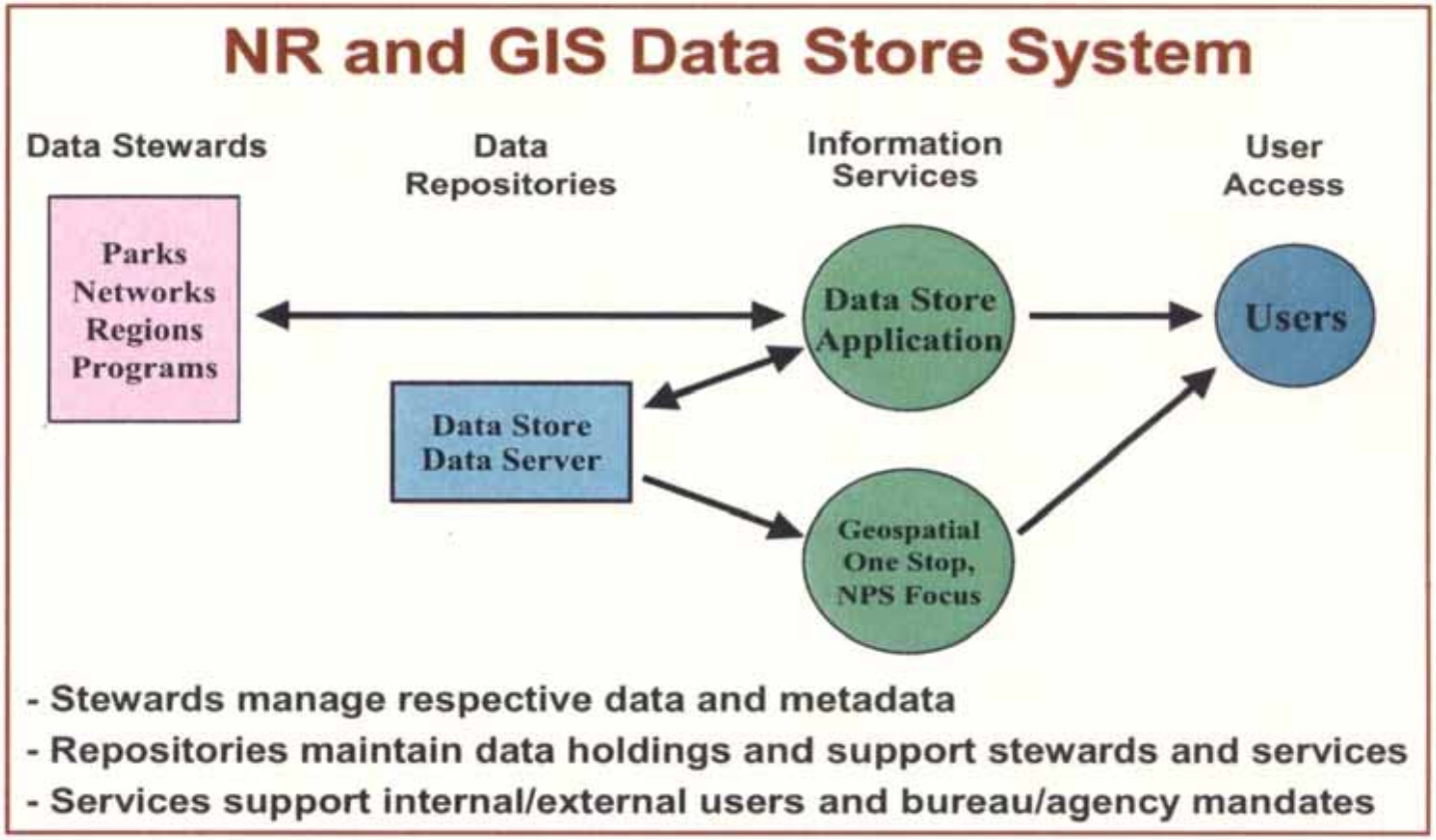
Natural Resource Database Template



NR & GIS Data Store:

a NPS-wide system for management and distribution of GIS data & metadata

http://science.nature.nps.gov/nrdata/

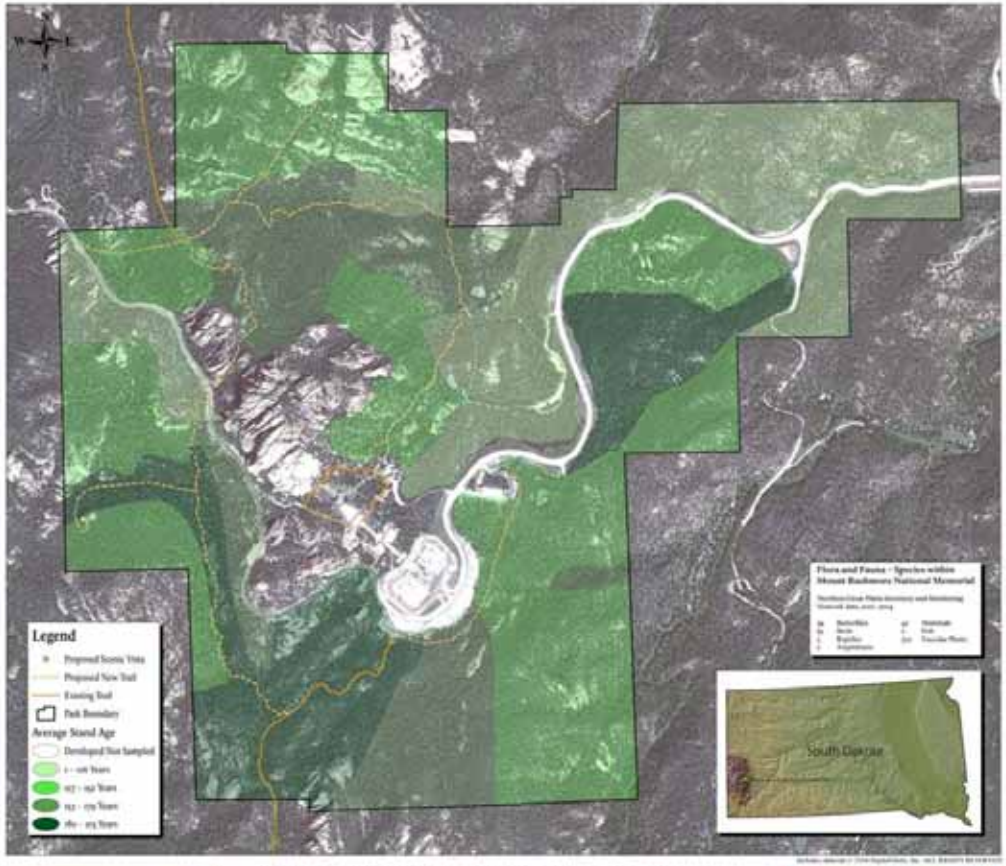


The NR & GIS Data Store is a repository for spatial and non-spatial NPS metadata and data that allows public and secure interaction via simple and advanced search options. The Data Store posts data to the federal Geospatial One-Stop and delivers data back to data producers using Web Services technology.

Northern Great Plains
Inventory and Monitoring Network

National Park Service
U.S. Department of the Interior

Science and Recreation at Mount Rushmore National Memorial: A Proposed Interpretive Trail

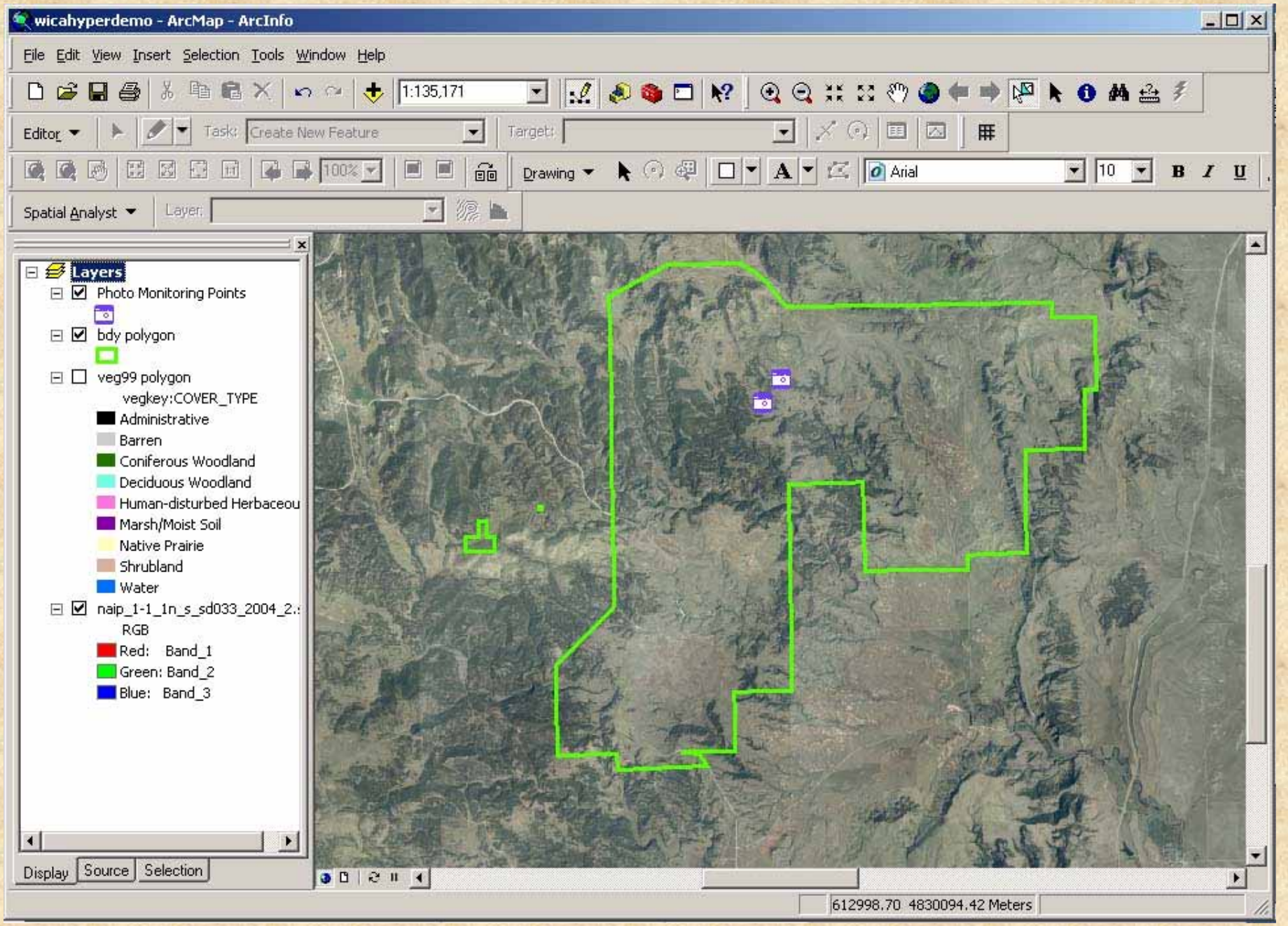


Mount Rushmore National Memorial is one of the National Park Service's most recognizable icons. However, what is not widely recognized is that the 1278- acre Memorial is also home to towering granite rock formations, beautiful rugged scenery, majestic ponderosa pines, and diverse flora and fauna.

Mount Rushmore is home to one of the largest remaining contiguous stands of old- growth ponderosa pine in the Black Hills. There are a total of 901 acres of old- growth ponderosa pine forest in the Memorial; this means that 71% of the Memorial has old- growth forest. Overall, this represents 16% of the old- growth ponderosa pine forest in the Black Hills. The old- growth forest at Mount Rushmore appears to be the second largest contiguous area of old- growth within the Black Hills. Old- growth forest appeals to people because of its large, stately trees, its variety of tree sizes, and its "unspoiled" appearance. Old- growth forest is *also* appealing to other species – sometimes so much so that they can't live without it. The characteristics that appeal to people (large trees) sometimes are the same as those required by these species. For example, Northern Goshawks (*Accipiter gentilis*) in the Black Hills use only mature ponderosa pine trees as nest sites, usually in the largest tree in the stand.

There is currently a proposed new trail system, which would lead around the perimeter of the park, and through much of the remaining old- growth stands of pine. While this trail system is still in the planning stages, and has not yet gone through the NEPA process, there is widespread support for the project. The intent is to open up more of Mount Rushmore to the public – both to allow for increased recreational opportunities, as well as allowing for interpretive displays explaining the importance of the old- growth forest structure.

Map produced by the Northern Great Plains Inventory and Monitoring Network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Macromedia Dreamweaver MX 2004 - [NPS: Nature & Science » Networks: Northern Great Plains Network (networks/index.cfm) (XHTML)]

File Edit View Insert Modify Text Commands Site Window Help

Common

index.cfm

Code Split Design Title: NPS: Nature & Science » Netw

Nature & Science
NPS
Input Searcl Search
Advanced Search
Search A to Z

Nature & Science

Inventory & Monitoring

Explore This Network:
- About Us
- Inventories
- Monitoring
- Reports & Publications
- Site Map

Parks: Nature & Science

Northern Great Plains Network

NPS » Nature & Science» I & M » Networks » Northern Great Plains

Northern Great Plains Network
Inventory and Monitoring Program

The Inventory and Monitoring Program is a major component of the National Park Service's strategy to improve park management through greater reliance on scientific information.

Current NGPN Newsletter
[PDF File]

Nationwide, 270 national parks have been grouped into 32 Vital Signs Networks linked by geographic similarities, common natural resources, and resource protection challenges. The network approach facilitates collaboration, information sharing, and economies of scale in natural resource monitoring. The Northern Great Plains Network encompasses 13 park units in North Dakota, South Dakota, Wyoming, and Nebraska.

The goals of Inventory and Monitoring networks are:

- inventory the natural resources and park ecosystems under National Park Service stewardship to determine their nature and status;
- monitor park ecosystems to better understand their dynamic nature and condition, and to provide reference

Parks in this Network

Northern Great Plains Network Map
National I & M Map

Quick Links
- Link
- Link
- Link

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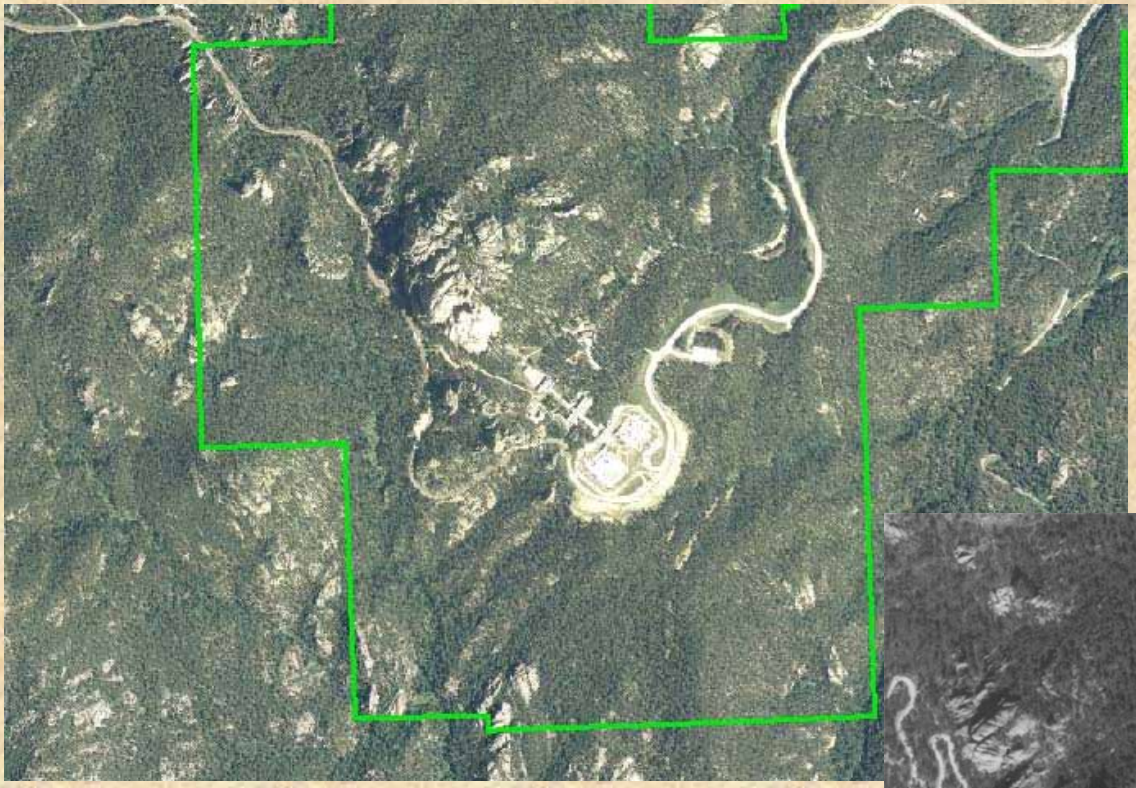
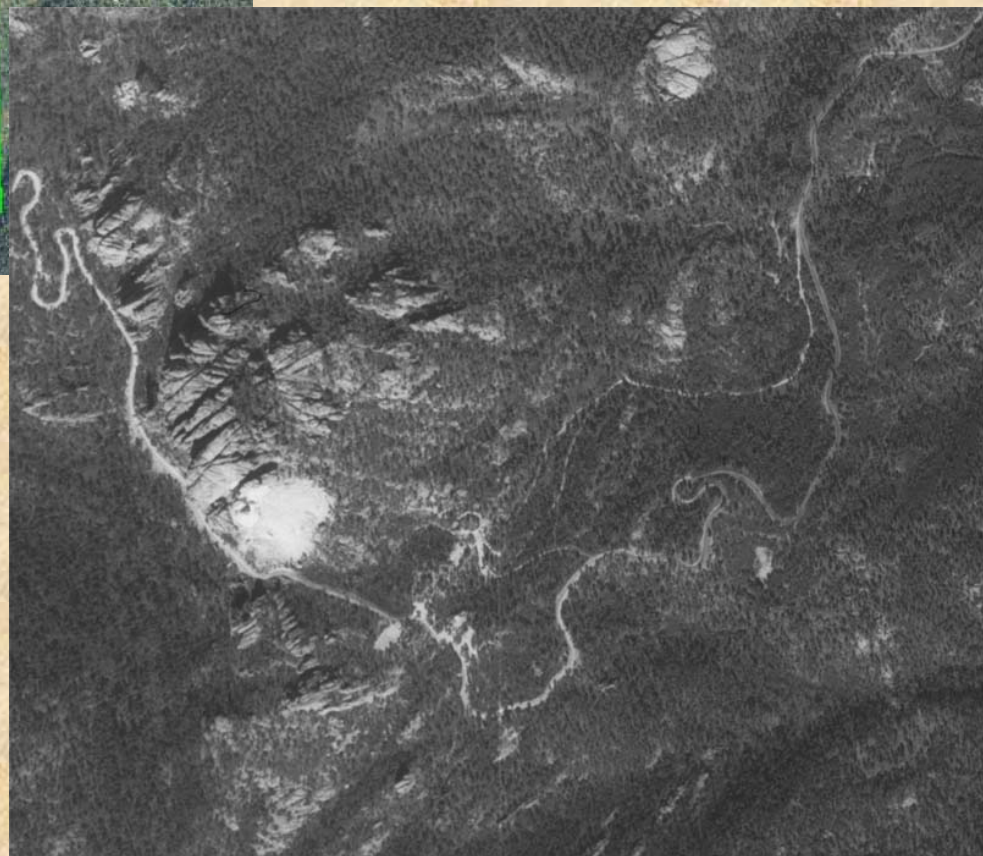


2004

Mount Rushmore



1938

VISUAL NATURE STUDIO™ 2

Visual Nature Studio 2.60 - [JECAproto2cnotrees.proj]

File View Data Window Help

Cameras
- Camera (Camera)
- Camera.1 (Camera)
- Overhead (Camera)
- Overhead Camera (C
- Plan (Camera)

Post Processes
Render Jobs
Render Options
Render Scenarios

3D Materials
3D Objects
Area Terraffectors
Atmospheres
Cameras
Celestial Objects
Cloud Models
Color Maps
Control Points
Coordinate Systems
DEM Mergers
DEMs

Camera - JECAproto2 Preview Options

Overhead - JECAproto2 Preview Options

Camera.1 - JECAproto2 Preview Options

Diagnostic Data

Component:	Pines
Distance (Z):	2741.6433m
Latitude	43.741854°
Longitude	103.83228°
Elevation:	1797.407m
Rel El:	-23.88
Slope:	11.132769°
Aspect:	34.472416°
Reflection:	0.0%
Illumination:	73.8%
Normal XYZ:	-0.360, 0.914, 0.187
RGB/HSV:	63,56,46 / 35,26,24
Alpha:	255

0s

Camera.1 (Camera)

MSG: Render time for anim, 1 frames: 00:09:47