

Geographically based – visualization tools



National Biological Information Infrastructure
- Southern Appalachian Information Node

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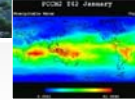
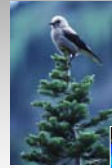


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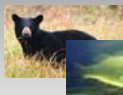


NBII: What is it?

A broad, collaborative program
designed to provide access to
data and information on our
Nation's biological resources.

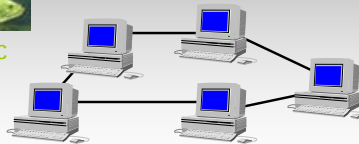
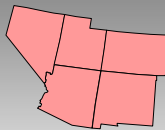


NBII Node Structure



■ Thematic

■ Regional



■ Infrastructure



Introduction

Example partnership projects that:

- demonstrate the added value of standardization for future growth and utility
- enable decision making by providing accessibility to accurate downloadable information.

NBII-SAIN and NBII's Geospatial
Interoperability Framework



Partnership projects

Three examples of partnerships building
web-based geographical visualization
tools (*that are continuing to evolve*):

- Eastern Brook Trout Joint Venture (EBTJV)
- Kentucky Department of Fish and Wildlife Resources
- Tennessee State Parks



Eastern Brook Trout Joint Venture (EBTJV)

- EBTJV is a geographically focused, locally driven, and scientifically based effort to protect, restore, and enhance aquatic habitat throughout the range of the Eastern brook trout.
- First pilot project under the National Fish Habitat Initiative
- Long-term goals of the EBTJV are to develop a comprehensive restoration and education strategy
- Web site: www.easternbrooktrout.net
- Partnership model for regional based aquatic and national conservation issues involving federal, state, and non-governmental organizations



www.easternbrooktrout.net 'Data and Maps' → http://sain.nbi.org/ebtv/

Kentucky Comprehensive Wildlife Conservation Strategy

Background:

- KY Geographic Network (<http://kygeonet.ky.gov/>) does not include CWCS information on over 250 species of amphibians, birds, mammals, fish, mussels and reptiles

Partnership Benefits:

- State view of biodiversity that has been inventoried and documented
- Facilitate
 - better KY natural resource management
 - sharing between states and future 'adaptive management' plan development

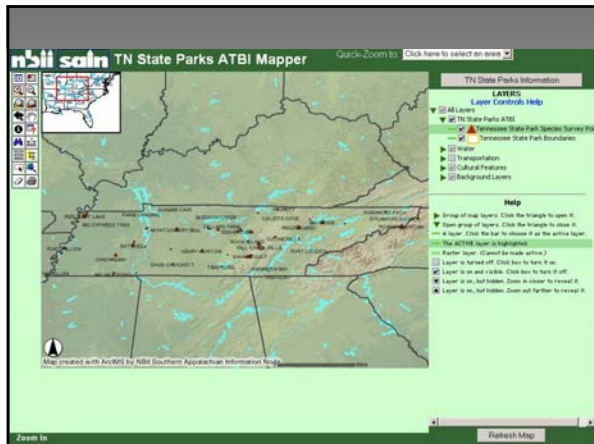
Tennessee State Parks All-Taxa Biodiversity Inventory

Background:

- Tennessee Department of Environment and Conservation manages 54 State parks
- Documented individual Park Biodiversity is needed to assist in making defensible decisions
 - regarding land use and management
 - pursuit of land acquisition for preservation of lands
 - boundary integrity and the protection of species, habitat, and ecosystems

Partnership Benefit:

- Capitalize on the data and information collected through educational institutions located throughout the state of TN that utilize the proximity of state parks for environmental, ecological, and biodiversity studies on a regular ongoing basis
- Capitalize on the NBI-SAIN infrastructure



Introduction

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NBII-SAIN and NBII's Geospatial Interoperability Framework (GIF)



NBII

Geospatial Interoperability Framework

- Purpose: Assist in making accurate biological and ecological geospatial information more useful and accessible
- Goals of the NBII GIF:
 - Provide access to live data and maps via web services.
 - Services should be interoperable.
 - It should be easy to search, discover, and visualize data.



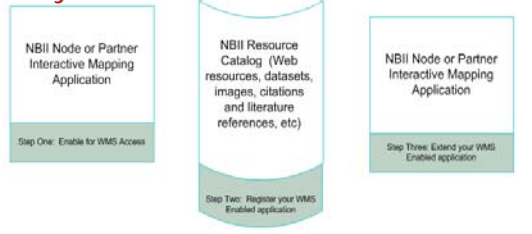
Overview

- Distributed:
 - NBII is a distributed network of partners and information resources.
 - The enterprise architecture is service oriented.
- Standards based:
 - OGC WMS, WFS
 - Other web standards
- Relies on Metadata:
 - Dublin core metadata for describing wms services
 - Metadata is catalogued and indexed for search



Steps for NBII Node Participation in GIF

Easy as 1-2-3



Graphic by Donna Roy, USGS

Summary

- Partnerships: federal, state, non-profit, private
- Purpose: enable decision making by providing accessibility to accurate downloadable biodiversity information
- NBII-SAIN:
 - strives to provide a user-friendly interface that allows the user to determine the level of interactive detail provided through the internet.
 - provides a regional hub for technology infrastructure and information management through partnerships to facilitate participation in the NBII GIF.



Thank you and enjoy the winter.

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To learn more please
visit our web site at

<http://sain.nbio.org/>

