A Network Connecting Science with Conservation Who We Are and What We Do



A Network Connecting Science With Conservation



Biodiversity Conservation







Our Affiliates

80+ biodiversity information centers throughout the U.S., Canada, and Latin America

On-the-ground expertise

Global partners like Bat Conservation International

10,000+ data providers, scientists and technical staff

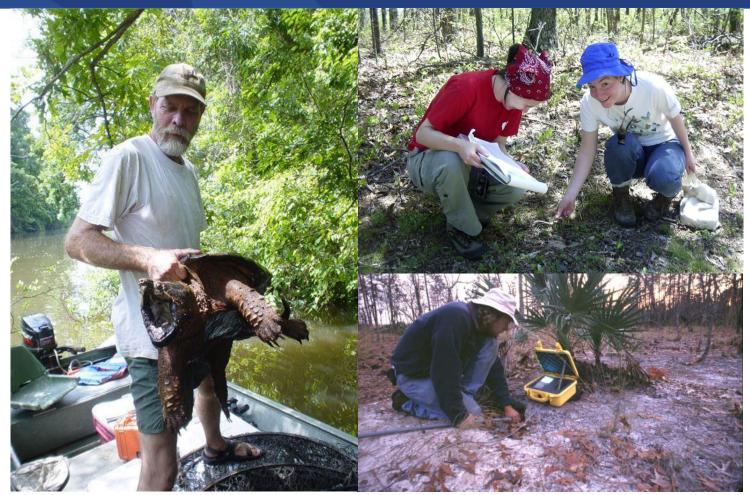
What makes us a network?

- Common standards and methods
- Common goals and purpose
- Sharing data and innovations
- Local details in a global context
- 40 years shared history

Theo Witsell, Arkansas NHP, and Milo Pyne, NatureServe

Appx 2,400 records in iDigBio

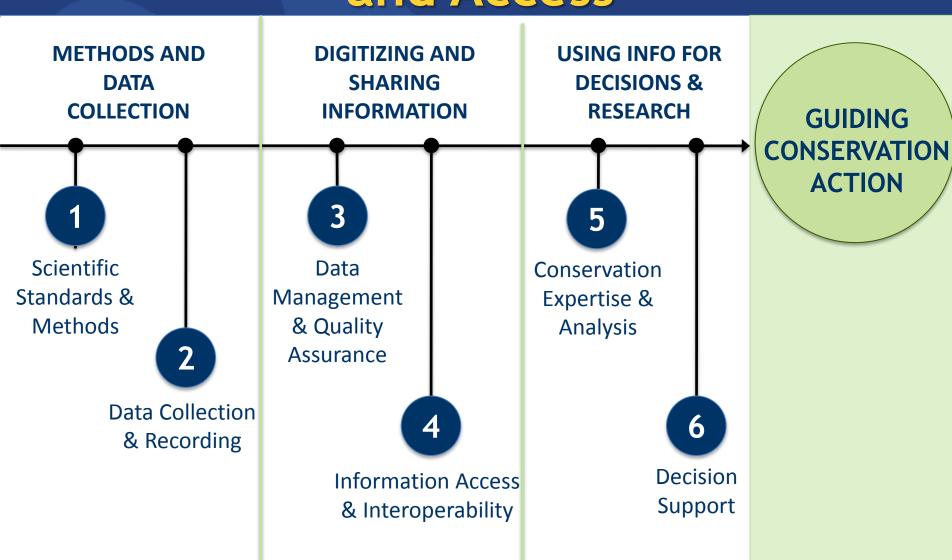
tagged as being contributed by NatureServe network



Alabama Natural Heritage Program

Florida Natura Inventory

Tools for Data Management and Access



NatureServe's Technology Suite

Methods and Data Collection

Digitizing and Sharing Information

Using Information for Decisions & Research

















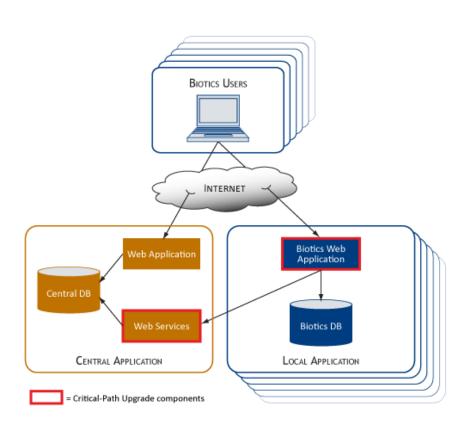








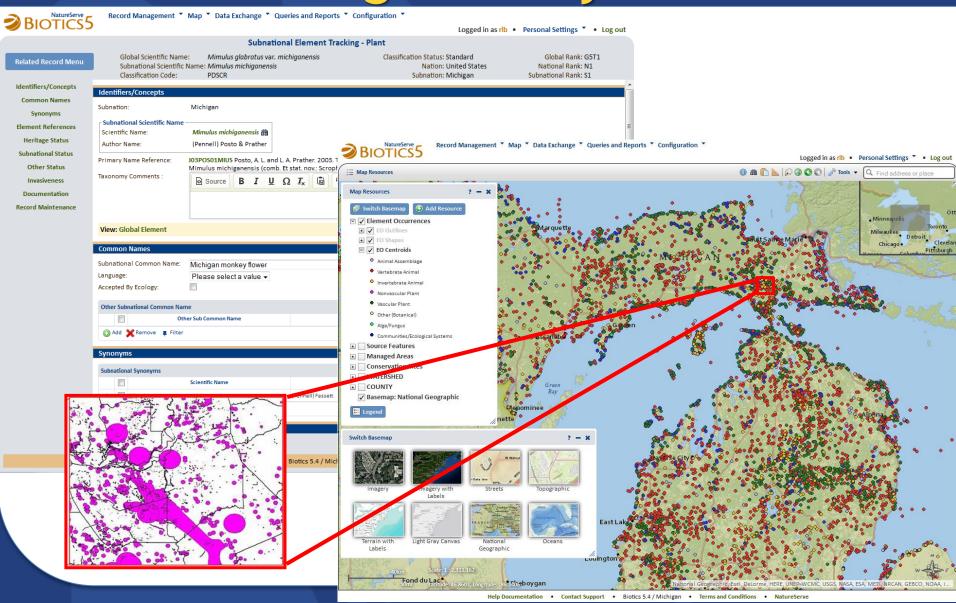
Cloud-based Architecture



- Hosted web application (the cloud)
- ArcGIS Server mapping
- Separate databases for each institution
- Web service access between data nodes



Biotics 5: Biodiversity data management system



Access: Web Services http://services.natureserve.org/



NatureServe Web Services Delivering Biodiversity Data to your Desktop



Google™ Custom Search Search

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Get Data

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- » Essentials
- » New to Web Services
- » Global Comprehensive Species
- » Species Images
- » Global Species List by Name
- » Code Samples
- » Species Schemas
- » Technical Library
- » Use Guidelines and Citation

NatureServe Web Services

About Web Services

NatureServe Web Services enable you to create dynamic, customized Web applications that interact directly with NatureServe's biodiversity databases. Using Web Services, data users can:

- Obtain near real-time access to the most recent biological inventories.
- Access and analyze data in your own applications, such as a GIS.
- Easily compare data developed across multiple states and provinces.

What's New

 Species Images Service — Provides access to NatureServe's collection of species images that are available for public use. The service provides direct access to the image metadata, selected by wild-carded scientific or common name. A code sample is available to show you how images can be retrieved and displayed by your application.

Contacts

Frank McLean

Web Services Specialist

Other Resources



Search the animals, and ecosystems of the U.S. and Canada.

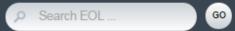


Search the birds, mammals, and amphibians of Latin America.

Find more NatureServe data.

Web Services: Encyclopedia of Life http://eol.org/





Become part of the EOL community! Join EOL now Already a member? Sign in

Calidris canutus

Red Knot learn more about names for this taxon

add to a collection

add an article

add a link

Overview

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Table of Contents

OVERVIEW

Brief Summary

Distribution

PHYSICAL DESCRIPTION

Size

Diagnostic Description

Degree of Threat: High

Comments: Increased commercial harvest of horseshoe crabs (for use as bait in eel and conch fisheries; especially in the Delaware Bay region in the 1990s; Walls et al. 2002, Morrison et al. 2004), a reduction in horseshoe crab populations, and a consequent reduction in red knot food resources (horseshoe crab eggs), body condition during spring migration, and annual survival (Baker et al. 2004) are major concerns for population that migrate along the U.S. Atlantic coast (González et al. 2006, Niles et al. 2007).

Actions to conserve horseshoe crabs have included reduced harvest quotas, more efficient use of crabs as bait, closure of the harvest in certain seasons and places, and the designation of a sanctuary off the mouth of Delaware Bay (Niles et al. 2007). The latest information is that the crab population may have stabilized, but there is no evidence of recovery (Niles et al. 2007).

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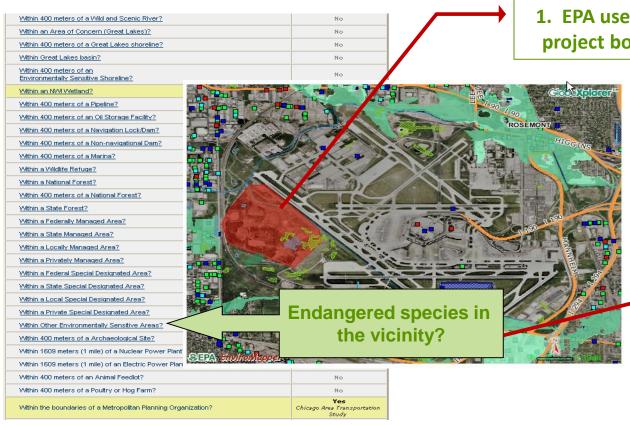
Source: NatureServe

TRUSTED

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Web Services: U.S. EPA NEPAssist



1. EPA user can map the proposed project boundary (red area)

- 2. EPA user can choose from a list of datasets to find out what is nearby the project boundary.
 - 3. If EPA user chooses "Endangered Species", NEPAssist calls NatureServe's web service and user is informed if a species is nearby.

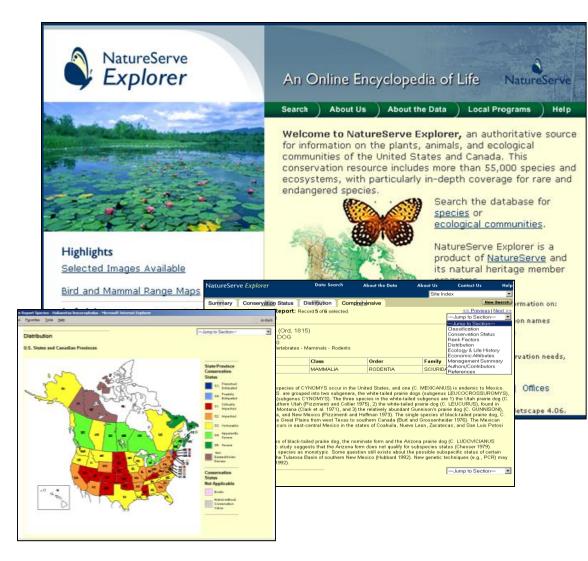
Access: NatureServe Explorer http://explorer.natureserve.org/

Comprehensive, searchable database

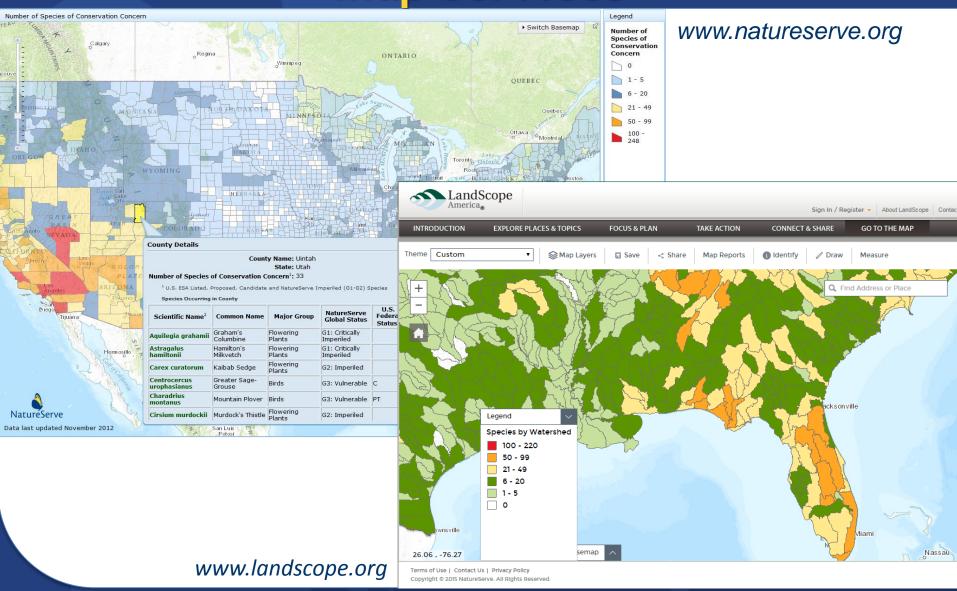
Data on 70,000+ plants and animals, and 1,600 ecological communities

Free to the public

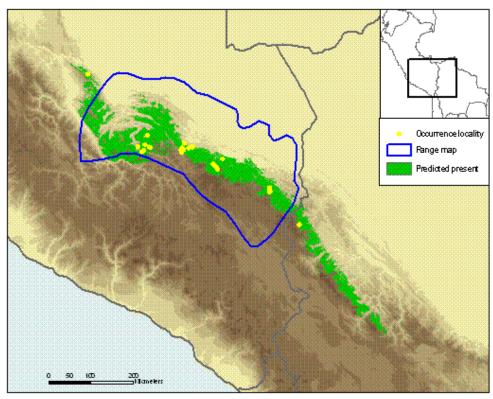
Data outputs only via pdf reports



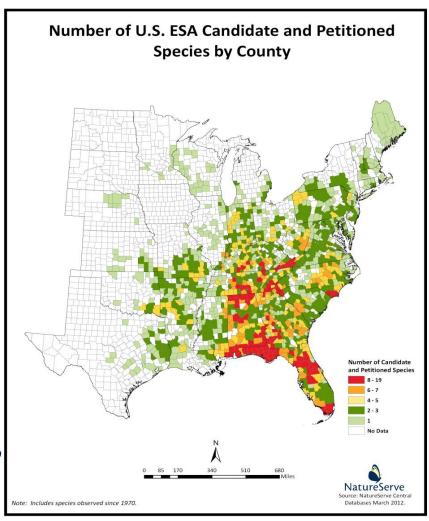
Access: interactive maps and map services



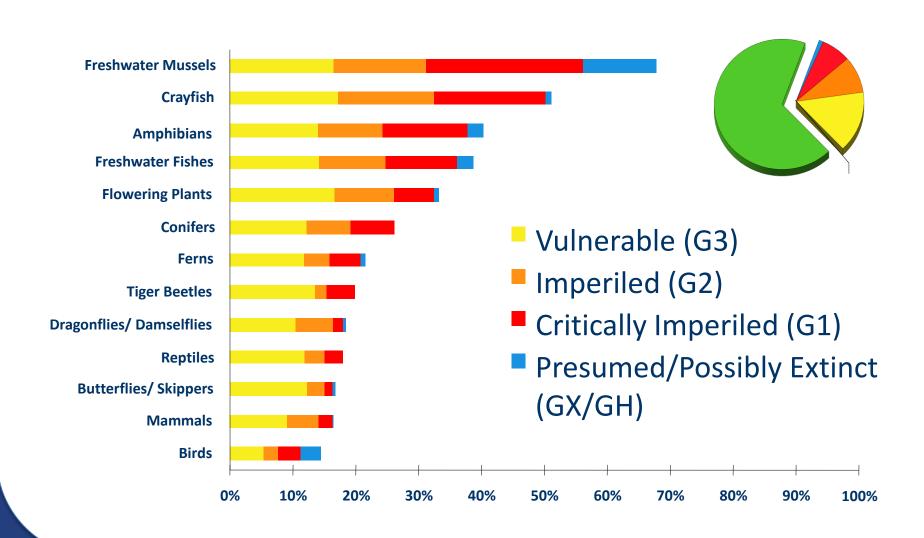
Research Use: distribution of endangered/endemic species



Results for a rare mammal in Peru and Bolivia: yellow points are known occurrences, green is the predicted occurrence, and the blue line is the original range map.



Research Use: Assessing species at Risk



Standards are established collaboratively



- Network members serve on governing councils
- Work groups include member programs and NatureServe staff
- Identify "best practices" from users
- Representation from across organizations

Sustainability: Diverse funding, matching our strengths

Infrastructure & Network

Standards & Data Services

Social Benefits



Private Foundations



Government Agencies



Corporate: Retail



Corporate: Banking



Corporate: Forestry



Individuals and Family Foundations

Networking and collaboration are essential elements for success



NatureServe 2015 Joint Member / Management Team

Thank you!

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