

DATA MANAGEMENT RAPID FIRE

Presenters:

1. Patrick Flaherty
2. Fagan Johnson
3. Tom Richie
4. Brent Frakes
5. Margaret Beer
6. Sara Melena
7. Christie McDonald
8. Todd M. Edgar
9. Geoff Sanders
10. Simon Kingston



Patrick Flaherty

Data Manager

NPS Appalachian Highlands Network

Galax Poaching on the Blue Ridge Parkway: Monitoring for illegally harvested species and the feedback loop for resource protection.

George Wright Society New Orleans, March 2011



Outline

- Describe the Resource
- Explain the Problem
- Describe our Monitoring
- Present the Database Used for Analysis

Galax urceolata



Diploids vs Tetraploid

- Genetically Distinct Tetraploid 4X Form
- More robust, larger leaves
- Galax tetraploid populations common along Blue Ridge escarpment
- More frequent in Western NC and North Georgia, possibly more rainfall in higher elevations
- Separate species?

Floral Arrangements



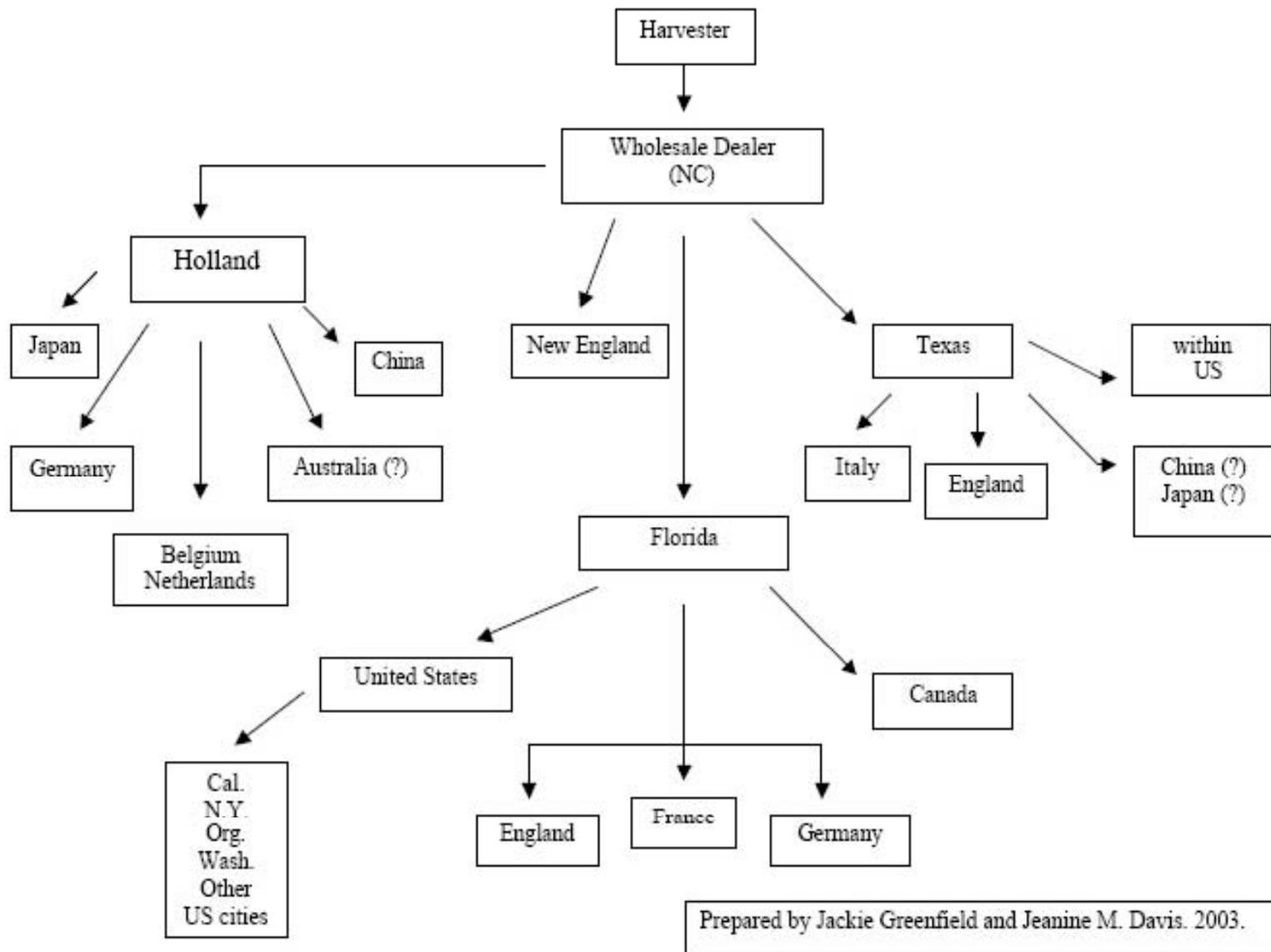
Holiday Centerpiece



Demand for Floral Trade

- Ends up as far away as Holland
- Big Business
- Decent money for ambitious Pickers, 7,500 leaves a day
- Upwards of 3 Million Leaves Annually Harvested with a majority of leaves coming from S. Appalachian Mountains
- #1 Plant poached from BLRI

Galax Distribution Routes



Prepared by Jackie Greenfield and Jeanine M. Davis. 2003.

Not Little Old Ladies in High Heels



Resource Damage



Poaching Effects





Big Numbers of Leaves Taken



Many Leaves



Late February 2011



Brian Watson
APHN SCA intern
2011

(NOT a galax
poacher...)

Monitoring Presence

- 1876 sites mapped; and in the last 2 years, 84% of the poachable populations have been poached.
- Identified Poachable Populations, minimum 50 square meters. The "poachability" is determined by size of population and presence of leaves over 3.5" in diameter
- Set up Long Term Plots, and Every Year Quick Plots
- Relayed information directly back to Rangers



Interagency Law Enforcement Effort (Forest Service, Mt. Mitchell State park, NPS)



Galax poachers face crackdown

By Clarke Morrison
CMORRISON@CITIZEN-TIMES.COM

ASHEVILLE — Law enforcement officials hope a recent crackdown on the harvesting of galax along the Blue Ridge Parkway and the arrest of 10 people will help deter the illegal practice.

More than 50,000 plants were seized since mid-February from poachers along the parkway and nearby national forest lands, Gretchen Shappert, U.S. attorney for the Western District of North Carolina, said at a news conference Wednesday at parkway headquarters.

"Poaching of galax is a major problem," she said. "The preservation of our national forests and parks is a public trust. We are obli-



CITIZEN-TIMES PHOTO

Galax urceolata.

gated to protect them."

While the harvesting of galax is legal and has a long tradition on private lands in Western North Carolina, it's

Please see GALAX on B4

WHAT IS GALAX?

■ Galax (*Galax urceolata*) is an evergreen groundcover harvested for use in the floral industry. The plant's durable, shiny green leaves turn red in the fall and are popular background foliage in flower arrangements. The leaves are 3-5 inches in diameter when mature. The plant is

most prevalent in the Southern Appalachians.

Source: U.S. Forest Service.

■ To report poaching, call the Blue Ridge Parkway at 800-727-5928 or the N.C. Wildlife Resources Commission at 800-662-7137.

Outreach

Appalachian Highlands Science Journal

Welcome to the third issue of the *Appalachian Highlands Science Journal*. This magazine is a compilation of articles about natural and cultural research occurring in the parks of the Appalachian Highlands Monitoring Network (Big South Fork NRRA, Blue Ridge Parkway, Great Smoky Mountains National Park, and Obed Wild and Scenic River). It is produced collaboratively by the staffs of the Appalachian Highlands Science Learning Center, the Appalachian Highlands Inventory and Monitoring Network, the Southeast Exotic Plant Management Team and the Southern Appalachian CESU (Cooperative Ecosystems Study Unit). Several of the articles in this issue focus on the exciting new finds from park inventories and research that are part of the Natural Resource Challenge, a National Park Service initiative to improve park management through greater reliance on scientific knowledge.

Susan Sachs, Education Coordinator.

Galax Poaching on the Blue Ridge Parkway



Nora Murdock, Ecologist, Appalachian Highlands I&M Network; Tim Francis, Pisgah District Ranger, Blue Ridge Parkway; John Garrison, Chief Ranger, Blue Ridge Parkway

The illegal harvesting of plants for commercial sale in the herbal remedy and floral markets is of growing concern along the Blue Ridge Parkway, where individual poachers have been intercepted leaving the park with tens of thousands of plants. Numerous species of plants targeted by poachers are found in the Blue Ridge Mountains and there is evidence that illegal harvesting activity is increasing. Some of these species do not recover quickly (or at all) from intensive harvesting, and are being eliminated from habitats that are accessible to poachers. The close proximity of desirable species to the Parkway motor road makes them particularly vulnerable to illegal harvesting.

Quick Plots and Repeated Transects

- Quick Plots get the information right away to Rangers before it is ever entered in a .MDB
- During Winter Months, Go to a site, Y/N, Mainly Qualitative
- Determine recent activity
- Long Term Transects to see how Galax populations are doing year to year

More Qualitative Data in Quick Plots

The screenshot displays the Microsoft Access interface. On the left, the 'All Access Objects' pane is visible, showing a list of tables and forms. The 'Tables' section includes: Switchboard Items, tsys_App_Settings, tbl_Event, tbl_Images, tbl_Locations, tlu_Density, tlu_L_or_R, tlu_LargeLeavesPerCent, tlu_Observer, and xref_Observer. The 'Forms' section includes: frm_App_Settings, frm_Locality, frm_Observer, frm_Trip, fsub_observers, subForm_Images, and Switchboard. The 'Modules' section includes: mod_Backup, mod_CommonFile, and mod_Uilities. Two red arrows point from the text 'Mostly Qualitative Data Resides with Locations' to the 'tbl_Event' and 'tbl_Locations' entries. On the right, the 'Main Switchboard' is open, displaying the 'Galax Quick Plots' form. The form has a teal header and a light beige body. It contains four options, each with a checkbox: 'New Data Entry', 'Edit Existing Data', 'Application Settings', and 'Exit'.

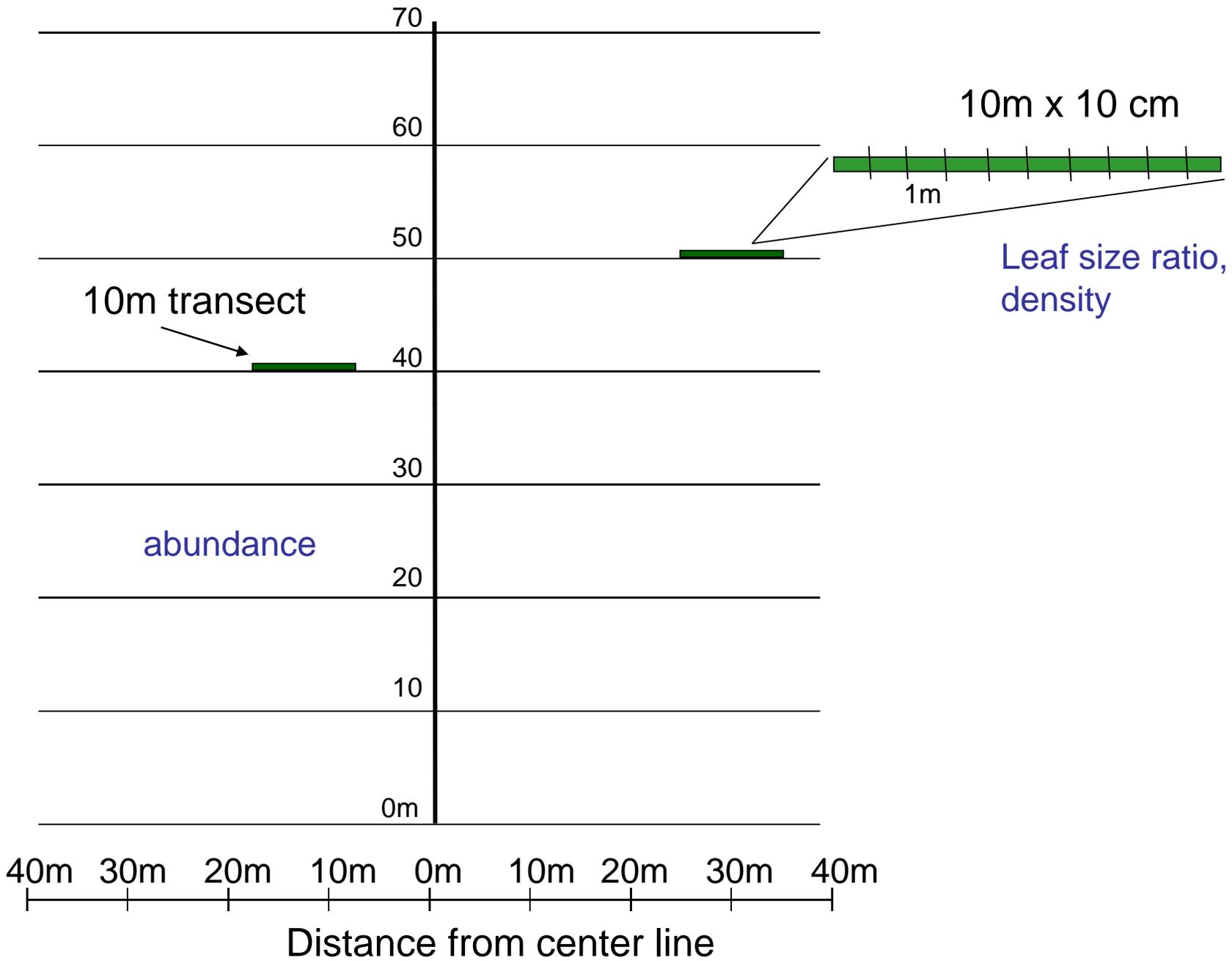
Mostly Qualitative Data Resides with Locations

Galax Quick Plots

- New Data Entry
- Edit Existing Data
- Application Settings
- Exit

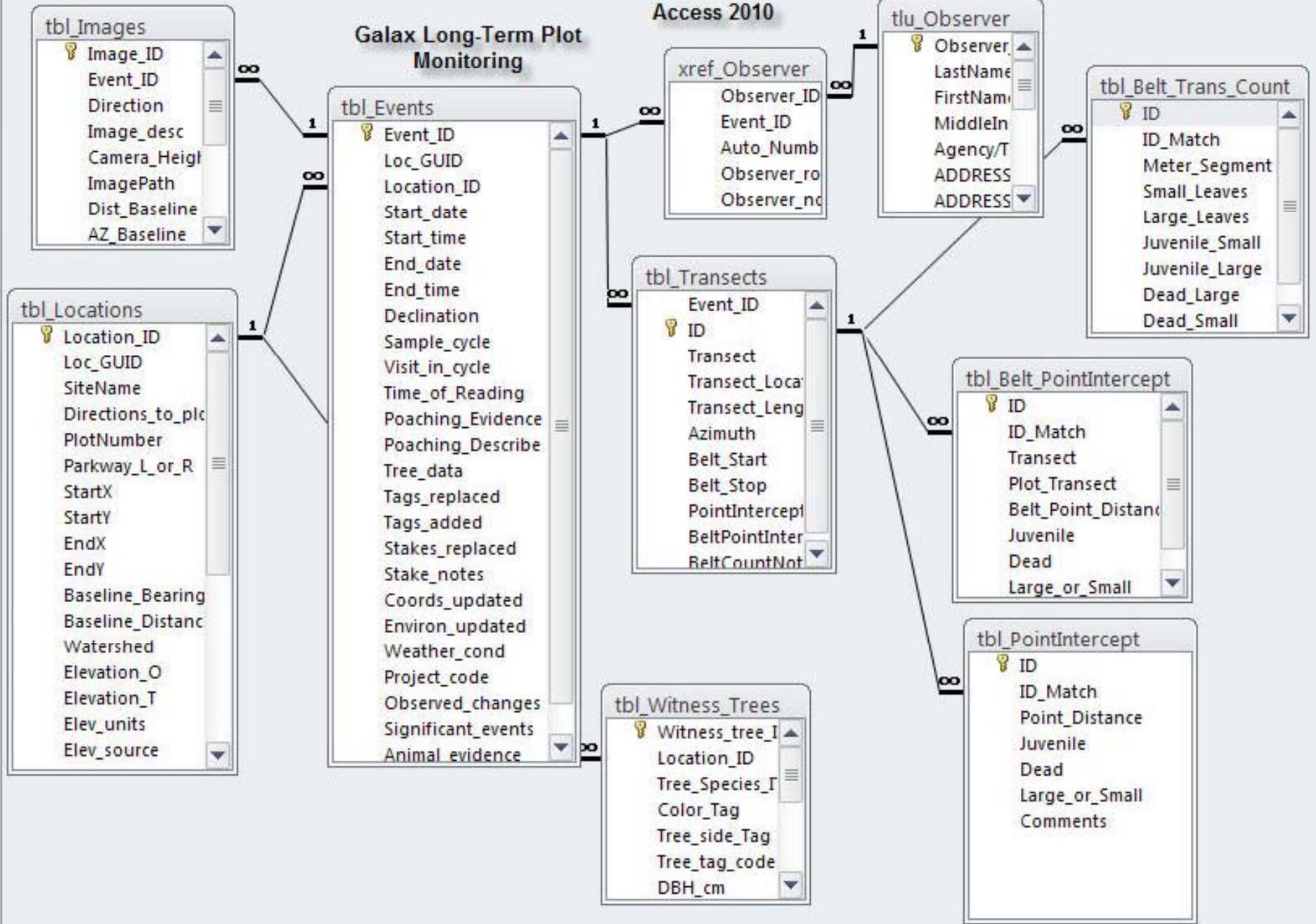
Plot Layout of Long-Term Monitoring





Galax Long-Term Plot Monitoring

Access 2010



Galax Transects

Reminder: Move through transect records using the arrows at the bottom of the form!

Plot Number: **Dropdown for Plot**

Event_ID: **Dropdown for Plot**

Transect no:

Transect Location on Baseline (m):

Bearing:

Transect Length **Count All Galax with Point Intercept**

Belt Start: Belt Stop:

Point Intercept Counts

Distance Juvenile

(L)arge or (S)mall Dead

Data Point Comments:

Record: No Filter Search

Point Intercept Notes:

Belt (10 m) Point Intercept

Point Distance within Belt (m):

(L)arge or (S)mall: Juvenile

Dead

Data Point Comments:

Record: No Filter Search

Belt Point Intercept Notes:

Belt (10 m) Transect Count

Meter Segment: Juv., Small Leaves:

Small Leaves: Juv., Large Leaves:

Large Leaves: Dead, Large Leaves:

Data Point Comments: Dead, Small Leaves:

Record: No Filter Search

Belt Transect Count Notes:

Galax Data

- PDF scan of all datasheets
- Place in appropriate folders
- Download pictures with descriptive names in correct folders
- MDBs have prompt for off site backup on BLRI server

Queries, Forms, and Reports

- Percentage Large Leaves(Belt Transects and Point Intercept Transects)
- Percentage Juvenile, Signs of recruitment
- Graphs showing yearly changes versus Averages, Large leaves to Small leaves

Start with Queries>Forms>Reports for Statistics

The screenshot displays a software interface with two columns of items. The left column contains several queries, and the right column contains forms and reports. A red arrow points from the first query to the first form, and another red arrow points from the first form to the first report.

Item Name	Type	Date Created	Date Modified	Description
qry_transect_pointintercept_avg_plot_density	Query	2/28/2011 11:08:09 AM	3/7/2011 11:41:59 AM	Calculation of TOTAL average, minimum, and maximum...
qry_transect_pointintercept_countofpoints_large	Query	2/9/2011 2:01:32 PM	3/7/2011 11:36:16 AM	For transect point intercept, counts total number...
qry_transect_pointintercept_countofpoints_small	Query	2/9/2011 10:12:15 AM	3/7/2011 11:36:07 AM	For transect point intercept, counts total number...
qry_transect_pointintercept_density_compare_av...	Query	2/28/2011 11:10:38 AM	3/7/2011 11:42:00 AM	Query created to compare plot densities to total...
qry_transect_pointintercept_largeandsmall_point...	Query	2/9/2011 2:07:15 PM	3/7/2011 11:41:58 AM	Point density (points hit/total points applied) for ...
qry_transect_pointintercept_largeandsmall_point...	Query	2/10/2011 10:17:43 AM	3/7/2011 11:41:59 AM	Point density (points hit/total points applied) for ...
qry_transect_pointintercept_largeleaf_percentage...	Query	2/24/2011 5:34:22 PM	3/7/2011 11:36:17 AM	
frm_xforchart_belt_pointintercept_density_by_tran...	Form	2/22/2011 11:52:06 AM	3/7/2011 11:38:59 AM	
frm_xforchart_pointintercept_density_average	Form	2/28/2011 11:25:51 AM	3/7/2011 11:36:11 AM	
frm_xforchart_pointintercept_largeandsmall_densi...	Form	2/10/2011 4:45:51 PM	3/4/2011 5:13:20 PM	
frm_xforchart_pointintercept_largeandsmall_point...	Form	2/10/2011 10:56:21 AM	3/7/2011 11:36:02 AM	
frm_xforchart_pointintercept_largeleaf_percentag...	Form	2/28/2011 4:09:34 PM	3/7/2011 11:36:18 AM	
frm_xforchart_pointintercept_largeleaf_percentag...	Form	2/28/2011 3:56:07 PM	2/28/2011 4:13:39 PM	
rpt_largeandsmall_point_density_by_transect	Report	2/10/2011 11:32:13 AM	2/10/2011 5:08:02 PM	
rpt_largeleaf_percentage_by_plot	Report	2/28/2011 4:11:04 PM	2/28/2011 4:12:42 PM	
rpt_largeleaf_percentage_by_transect	Report	2/28/2011 3:56:46 PM	2/28/2011 3:58:51 PM	
rpt_pointintercept_density_average	Report	2/28/2011 11:48:17 AM	2/28/2011 12:33:16 PM	

Date Created: 10/11/2009 12:01:37 PM
Date Modified: 1/31/2011 10:10:37 AM



Switchboard

Date Created: 3/21/2006 9:53:47 AM
Date Modified: 2/28/2011 5:06:30 PM

Reports



rpt_baseline_information

Date Created: 2/1/2011 3:09:09 PM
Date Modified: 2/7/2011 5:18:59 PM
BTW: Report of collection of baseline information, to assist...



rpt_largeandsmall_BELT_point_density_by_transect Report

Date Created: 2/22/2011 2:24:36 PM
Date Modified: 3/1/2011 10:11:41 AM



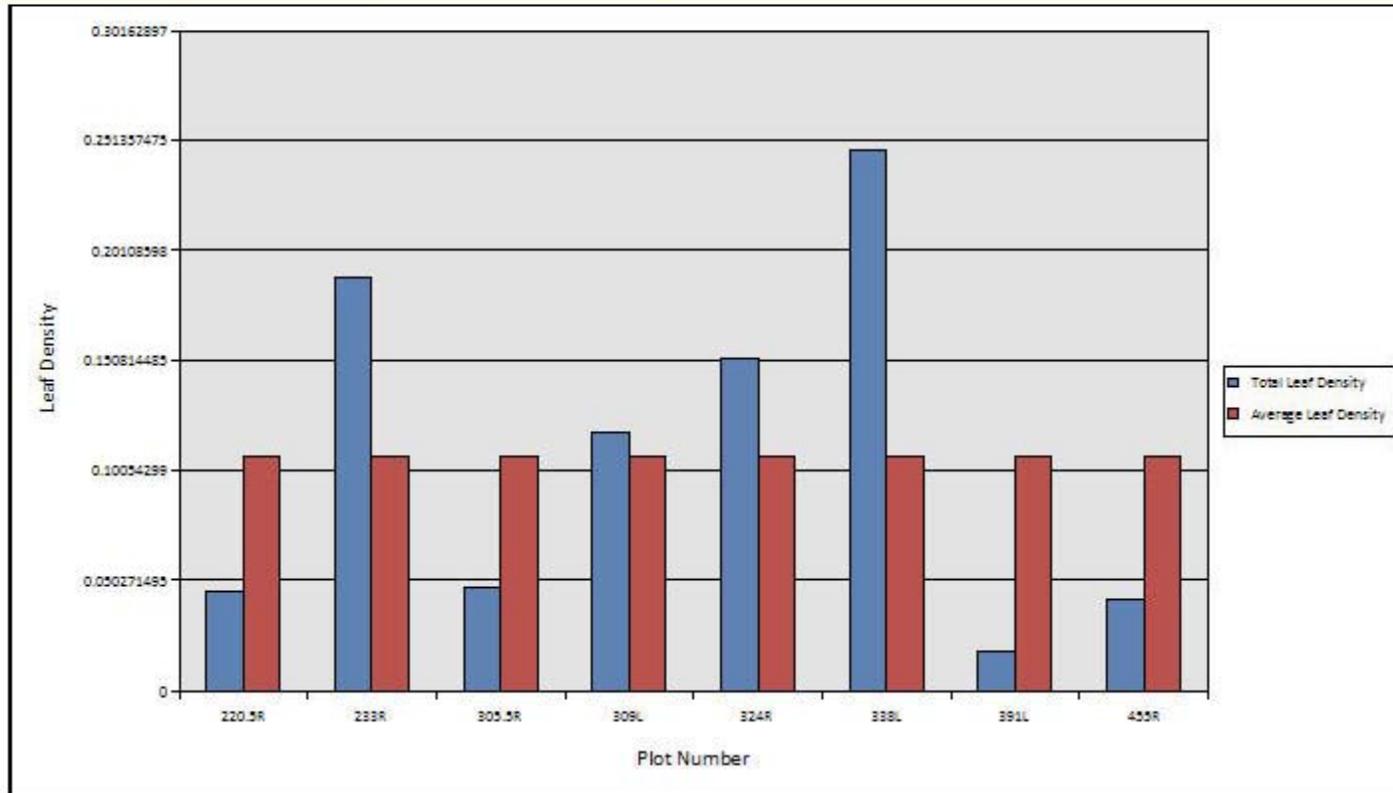
rpt_largeandsmall_point_density_by_plot Report

Enter Parameter Value ? X

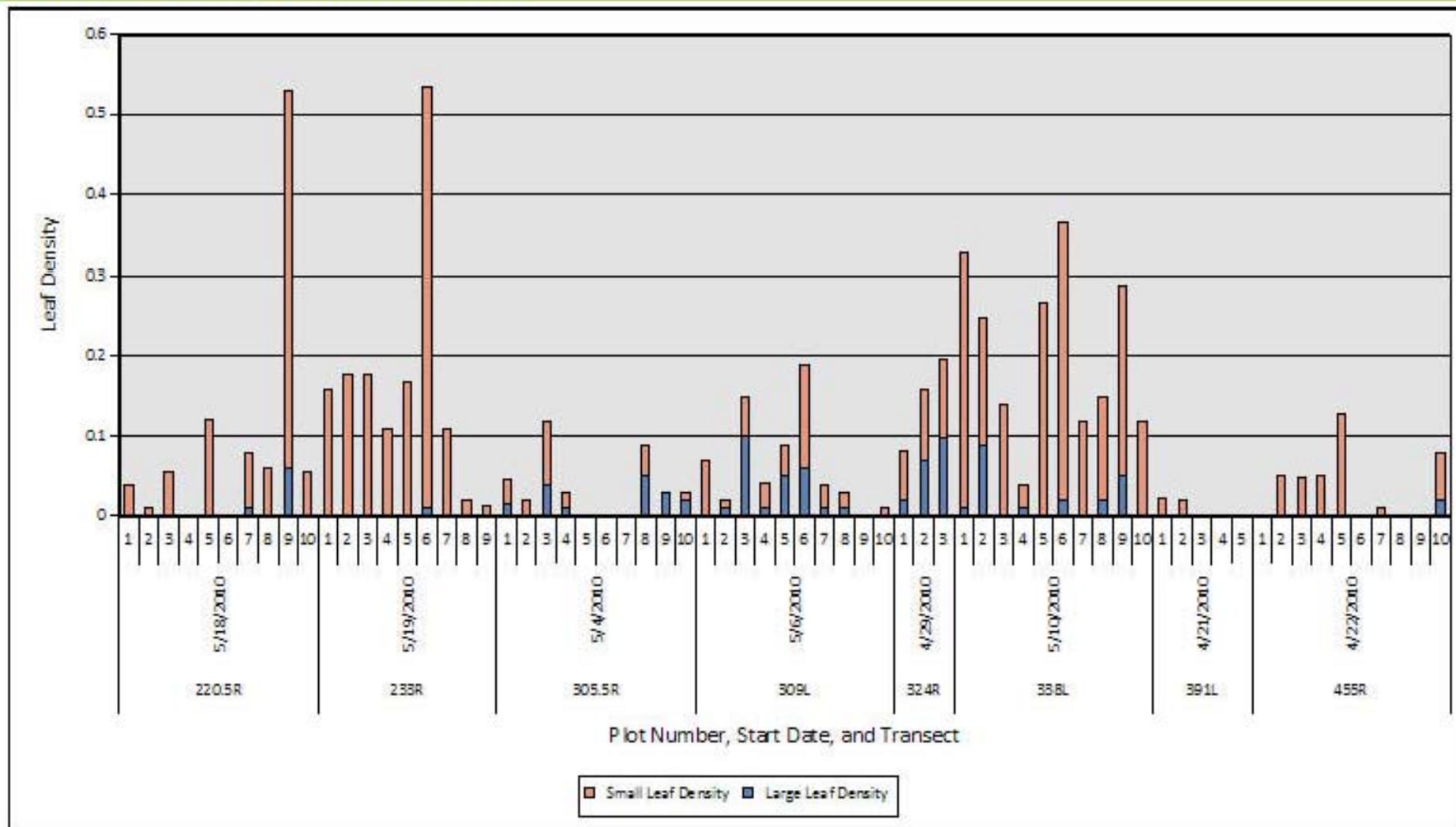
Start Date: example, 5/10/2010

OK Cancel

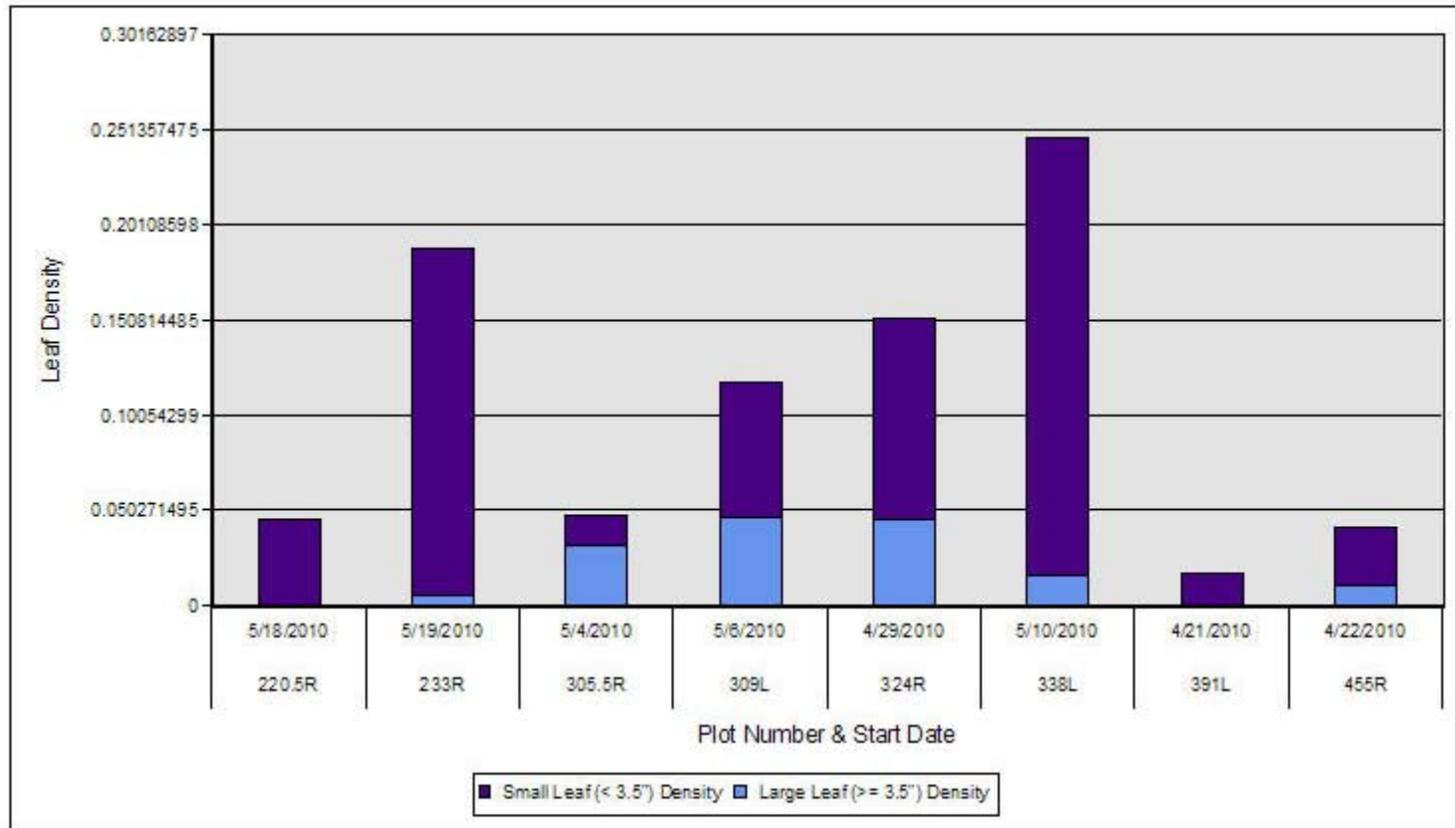
Galax Leaf Densities by Plot with Average 2010



Galax Belt Leaf Densities 2010



Galax Leaf Densities 2010



Closing Thoughts

- “You can observe a lot by watching”
- Yogi Berra
- Quick feedback to Rangers
- Proud to see our efforts come to action
- Working with Rangers provided more exposure for our program and Strengthened our Relationship with the Park
- Ecologist outreach presentation to all district and sub-district Rangers, talked up I&M inventories

Always Time for
Pickin' and Singing



Shuckin' the Corn



Fagan Johnson
Assistant Data Manager
Inventory & Monitoring Division

**Fagan Johnson
Inventory & Monitoring Division
Fort Collins, Colorado**



Natural Resource Publications Management

**Publishing Reports in the
Natural Resource Technical Report (NRTR),
Natural Resource Report (NRR), and
Natural Resource Data Series (NRDS).**

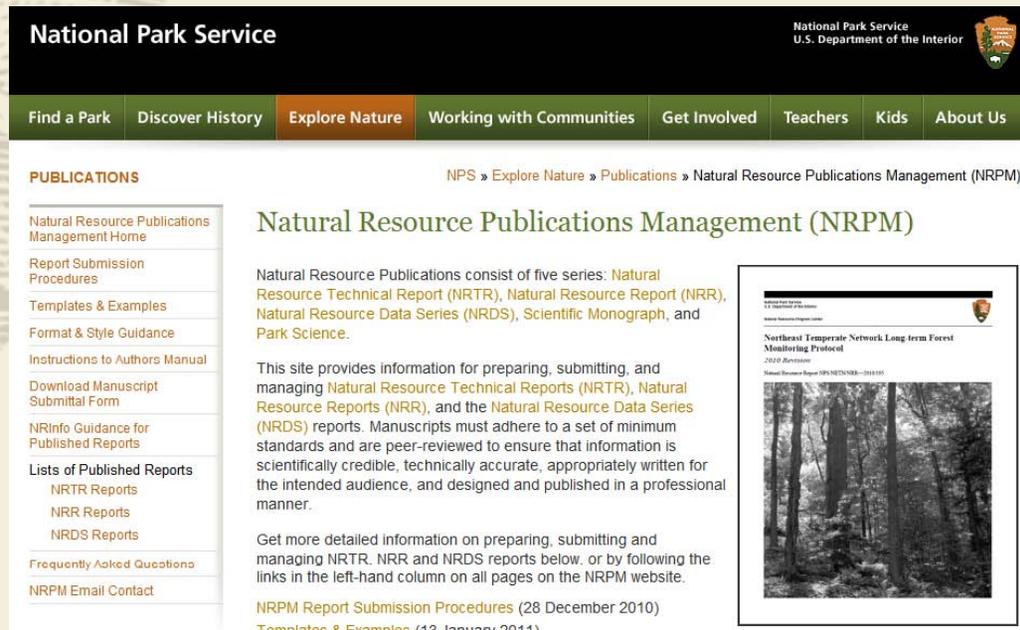
Background

- NPS publication series has been around since the early 1980s, but with no funding or editors.
- New guidance, standards, and procedures developed in 2006 to make it work with existing staffing and funding realities.
- We permanently document the peer review process for each report, and make sure that a digital copy is archived in a centralized document storage and retrieval system (NRInfo).
- Provide technical support, manuscript templates, and guidance.

Report Submission Procedures

Step 1: decide if report content and scope is best suited for the national or regional report series. The national series is recommended in most cases.

Step 2: decide if the manuscript is better suited for the NRTR, NRR, or NRDS report series.



National Park Service National Park Service
U.S. Department of the Interior

Find a Park Discover History **Explore Nature** Working with Communities Get Involved Teachers Kids About Us

PUBLICATIONS NPS » Explore Nature » Publications » Natural Resource Publications Management (NRPM)

Natural Resource Publications Management (NRPM)

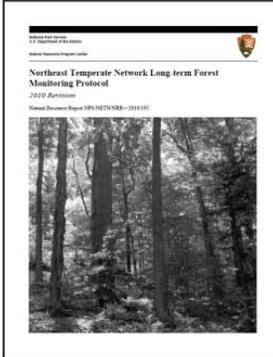
Natural Resource Publications consist of five series: **Natural Resource Technical Report (NRTR)**, **Natural Resource Report (NRR)**, **Natural Resource Data Series (NRDS)**, **Scientific Monograph**, and **Park Science**.

This site provides information for preparing, submitting, and managing **Natural Resource Technical Reports (NRTR)**, **Natural Resource Reports (NRR)**, and the **Natural Resource Data Series (NRDS)** reports. Manuscripts must adhere to a set of minimum standards and are peer-reviewed to ensure that information is scientifically credible, technically accurate, appropriately written for the intended audience, and designed and published in a professional manner.

Get more detailed information on preparing, submitting and managing NRTR, NRR and NRDS reports below, or by following the links in the left-hand column on all pages on the NRPM website.

NRPM Report Submission Procedures (28 December 2010)
Templates & Examples (13 January 2011)

Northeast Temperate Network Long-term Forest Monitoring Protocol
2010 Revision
Natural Resource Report (NRR) NRDS-111111



<http://www.nature.nps.gov/publications/nrpm/>

Natural Resource Technical Report (NRTR)

- Typically follows the "Introduction - Methods - Results - Discussion" type organization.

Natural Resource Report (NRR)

- Very flexible format and wide range of topics.
- E.g., reports with chapters, protocols and SOPs, management and monitoring plans, policy guides.

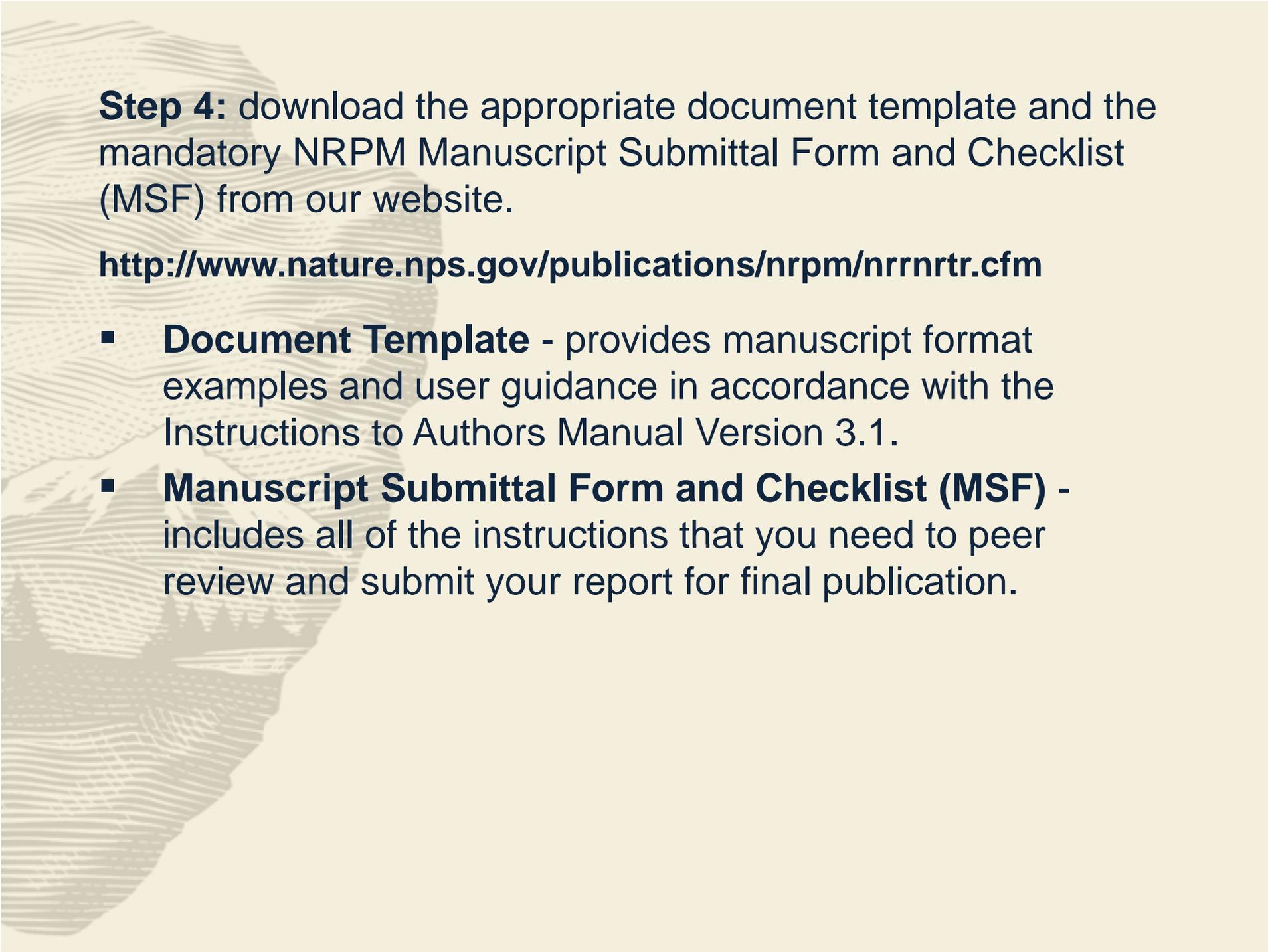
Natural Resource Data Series (NRDS)

- Timely release of basic data sets and data summaries.
- Little or no analysis or interpretation needed.
- Initial analyses of data in these reports are provisional and subject to change.



Step 3: select a file format for the report.

- **MS Word** – majority of reports. Uses fonts available to the general public (Times New Roman and Arial).
- **Adobe InDesign** – more polished, usually reserved for reports with a large print distribution (over 50 printed copies) and high-profile reports. Uses NPS proprietary fonts, that are not readily available to the general public (NPS Rawlinson and Adobe Frutiger).



Step 4: download the appropriate document template and the mandatory NRPM Manuscript Submittal Form and Checklist (MSF) from our website.

<http://www.nature.nps.gov/publications/nrpm/nrrnrtr.cfm>

- **Document Template** - provides manuscript format examples and user guidance in accordance with the Instructions to Authors Manual Version 3.1.
- **Manuscript Submittal Form and Checklist (MSF)** - includes all of the instructions that you need to peer review and submit your report for final publication.

Step 5: prepare the manuscript using the style standards and hints provided in the template.

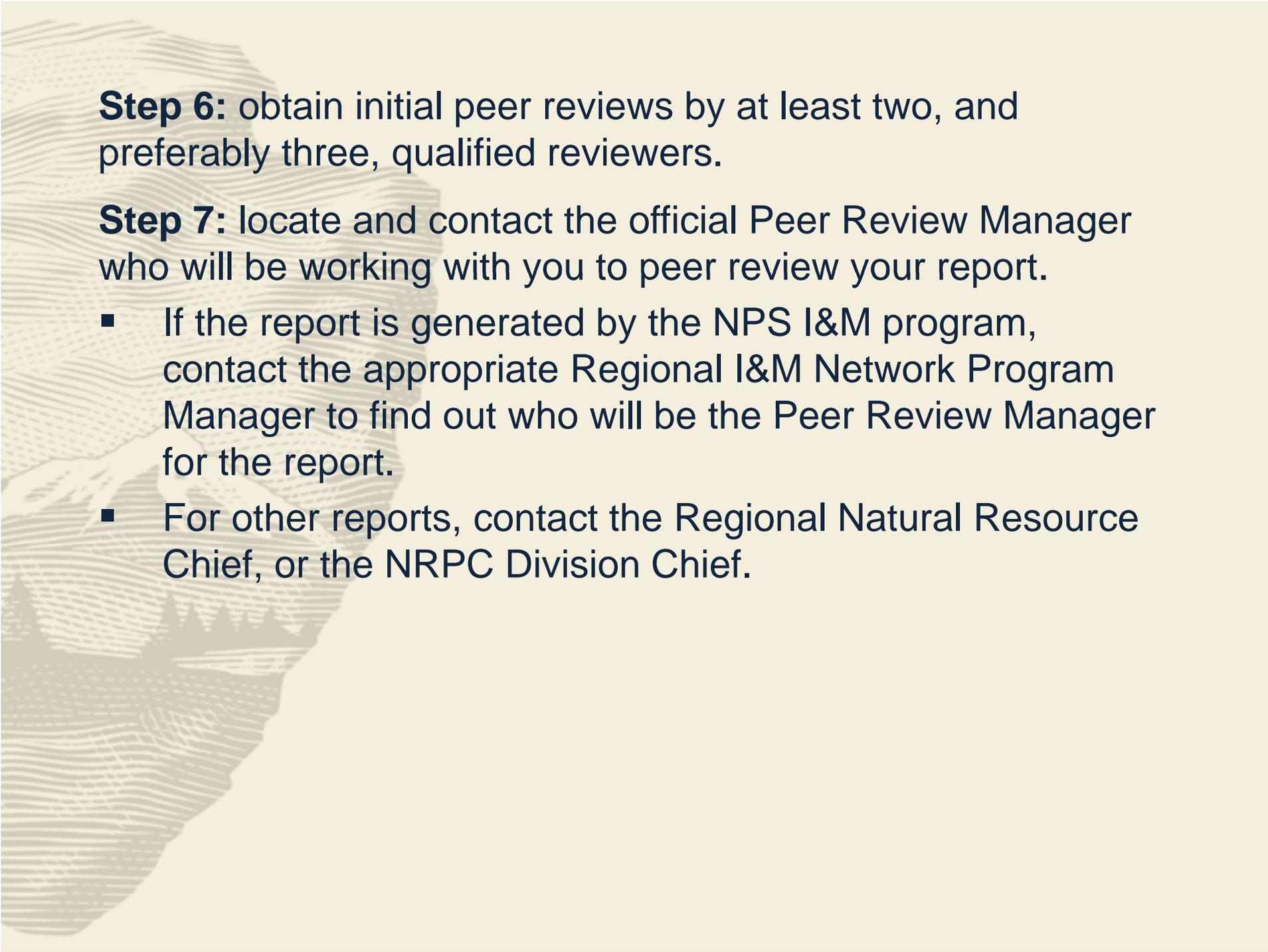
This screenshot shows a page from an MS Word template. On the left, there are several callouts: 'Figures (Style: nprgs Heading 1)' with instructions on applying MS Word styles and updating the list of figures; 'Figure C-1. Desired location and orientation page:'; and a list of instructions for handling figures, including automatic updates and manual adjustments. The main body of the page contains a header with 'Version 3.2 Updated 21 December 2010 - Atlas Web Editor', a logo for the National Park Service, and the title 'Natural Resource Program Center'. Below the header is a section for the 'NRTR Report Title' and 'Subtitle', with instructions on font size, bolding, and vertical spacing. A table of contents is visible at the bottom of the page, listing sections like 'Abstract/Executive Summary', 'Introduction', 'Methods', and 'Discussion'.

MS Word Template

This screenshot shows a page from an Adobe InDesign template. On the left, there are callouts for 'Contents (Style: nprgs Contents)' and 'Methods (for similar) (Style: nprgs Heading 1)'. The main body of the page features a header with 'Title of Natural Resource Publication (InDesign Paragraph Style: nprgs Report Title)' and 'Subtitle NRTR or NRTR Series (Style: nprgs Report Subtitle)'. Below the header is a large grey box containing instructions for placing a cover photograph and format and layout requirements. To the right, there are callouts for '(Style: nprgs Heading 1)' and 'Methods (for similar) (Style: nprgs Heading 1)'. The page also includes a table of contents and a list of instructions for handling figures and tables.

Adobe InDesign Template

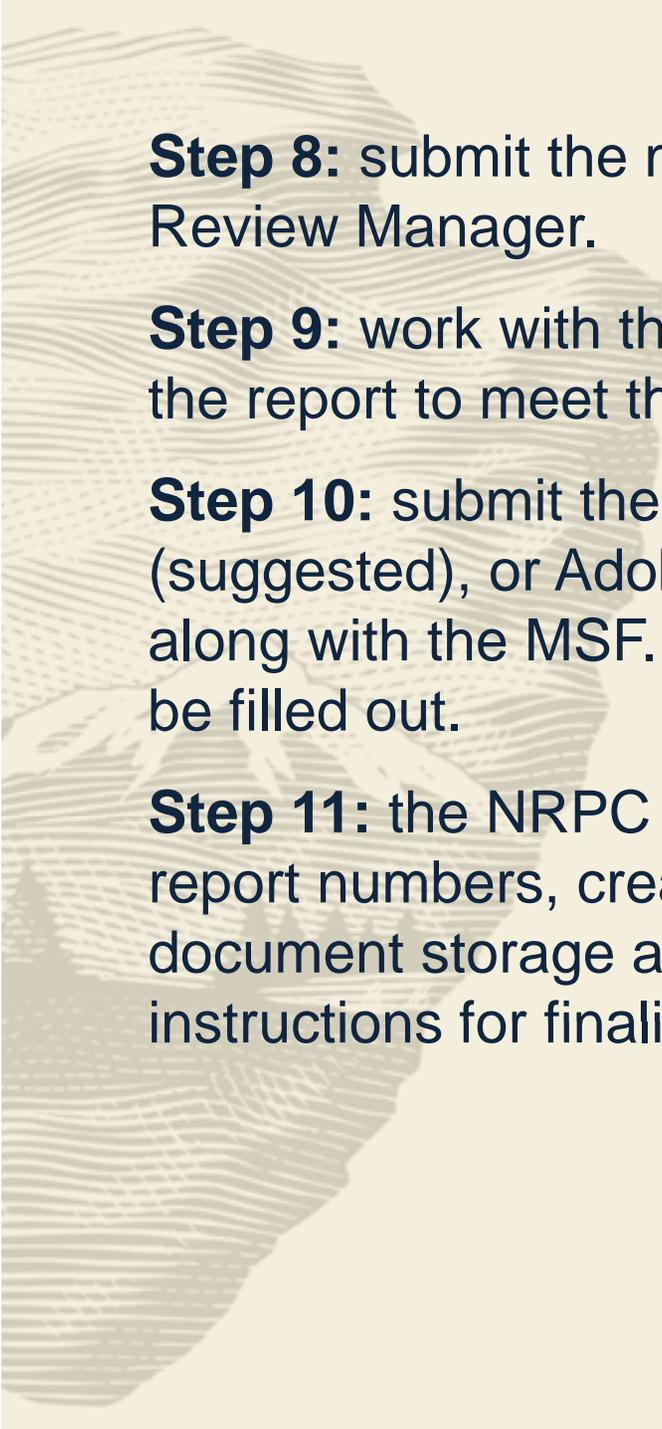
We suggest downloading fresh templates once per year to get the latest NPS policy language, software bug fixes, etc.



Step 6: obtain initial peer reviews by at least two, and preferably three, qualified reviewers.

Step 7: locate and contact the official Peer Review Manager who will be working with you to peer review your report.

- If the report is generated by the NPS I&M program, contact the appropriate Regional I&M Network Program Manager to find out who will be the Peer Review Manager for the report.
- For other reports, contact the Regional Natural Resource Chief, or the NRPC Division Chief.



Step 8: submit the manuscript and the MSF to the Peer Review Manager.

Step 9: work with the Peer Review Manager edit and update the report to meet their standards.

Step 10: submit the final draft of the report in either MS Word (suggested), or Adobe Acrobat format to the NRPC office, along with the MSF. The first two sections of the MSF must be filled out.

Step 11: the NRPC office reviews the report, assigns new report numbers, creates a draft reference in the NRInfo document storage and retrieval system, and sends final instructions for finalizing and uploading the report to NRInfo.

What are the big things that the NRPC looks for in the final review?

- Front and back cover pages (first two and last two pages) are consistent with the national report standard.
- The report contains the official NPS peer review and disclaimer language for that report series (usually located on page ii).
- Obviously broken items related to things like tables of contents, page numbers, software bugs, etc.
- We prefer that major chapters begin on a new and odd-numbered page (face reader in a paper copy of the report).

If you send the final draft in MS Word format, we will fix these items for you, and send it back for your final approval.

Step 12: make any final edits, upload final PDF to NRInfo, and submit a paper copy to the NPS Technical Information Center office for microfilm archiving.

Questions?

Fagan Johnson
Assistant Data Manager
NPS Inventory & Monitoring Program
Fort Collins, Colorado
Phone: (970) 267 – 2190
Email: Fagan_Johnson@nps.gov



Tom Richie
Data Manager
Chihuahuan Desert I&M Network



Image Management

Tom Richie

Chihuahuan Desert Network



Image Metadata

Too many standards for the same information

EXIF – Technical metadata

IPTC – Administrative and Descriptive metadata

XMP – Hybrid of EXIF, IPTC and Dublin Core

NPS Metadata Standard



File Header Properties

Namespace or Metadata Blocks

Memory addresses within the file header that stores the metadata elements of the various standards.

```
/app13/irb/8bimiptc/iptc/copyright notice  
/app1/ifd/{ushort=33432}  
/xmp/<xmpalt>dc:rights
```



Image Management

- Acquire the image
- Store the image
- Standardize file naming
- Store metadata
- Retrieve the image



Image Management

- Acquire the image
 - Camera resolution (scanner resolution)
 - 4320 x 2880 ~12 mega pixel
 - Print image resolution
 - 4" x 6" @ 300 dpi
 - Work backwards for the desired use
 - 1800 x 1200 pixels ~ 2Mb file
 - 9.6 x 14.5



Image Management

- Store the image
 - In the project directory structure
 - In an images directory structure
 - Standardized file naming schema



Image Management

- Image metadata
 - Data/metadata file pair
 - Standardized file naming schema
 - Image metadata database
 - File header – embedded file properties
 - Edit and retrieve file header information



Image Management

- Image retrieval
 - Data/metadata file pair
 - Manual process
 - Image database
 - Increased search capabilities
 - Thumbnail images
 - Embedded file properties
 - Need to be able to read file headers



Image Management

- Embedding file properties
 - Extensis
 - Photo Pro Tools
 - Thumbs +
 - Windows 7 Explorer (limited)
 - Custom application



Windows 7 Explorer

Squirrel2.jpg

JPEG Image

Date taken: 4/7/2010 12:00 AM

Tags: META Keywords; META...

Rating: ☆☆☆☆☆

Dimensions: 1685 x 1325

Size: 1.41 MB

Title: META Title

Authors: META Author

Comments: META Comments

Camera maker: Canon

Camera model: Canon EOS D60

Subject: META Subject

F-stop: f/9.5

Exposure time: 1/1000 sec.

ISO speed: ISO-400

Exposure bias: 0 step

Focal length: 400 mm

Max aperture: 4.97085571289063

Metering mode: Pattern



Windows Properties Dialog

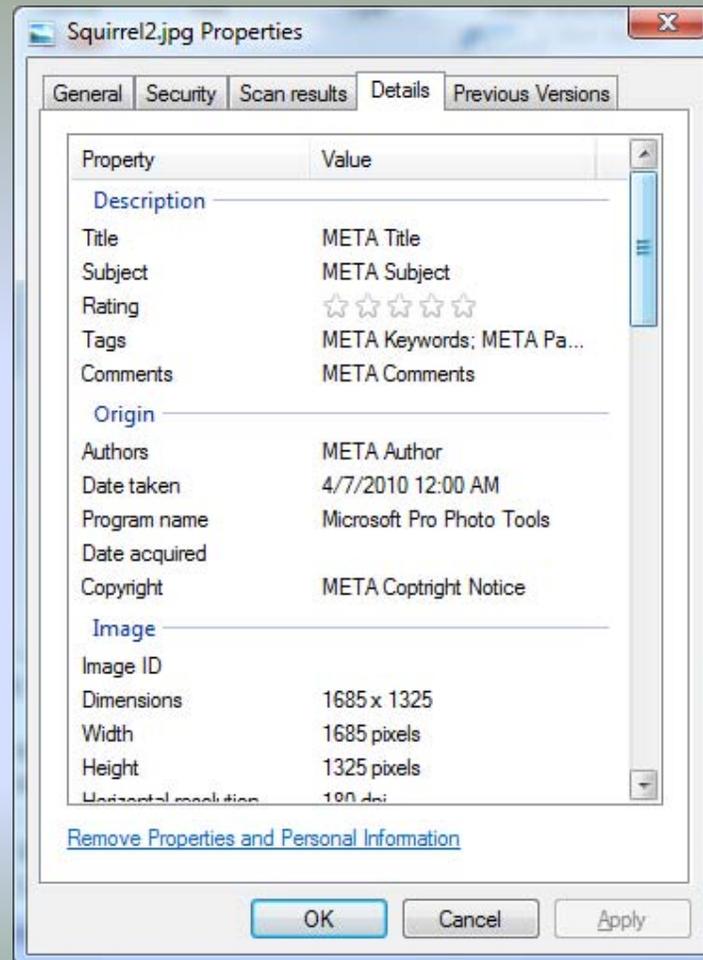




Image Management

The Chihuahuan Desert Approach

- Store metadata in image header
- Upload it to SharePoint project sub-site

Chihuahuan Desert Network
Intermountain Region
Inventory & Monitoring Program



META META

Insert/Edit META View META Help

Insert/Edit Single File MetaData

Select Image: 

Title:

Authors:

Subject:

Keywords:

Comments:

Date:

Park Code:

Access Constraints:

Copyright Notice:

Location Details:

Contact Information:

Latitude:

Longitude:

Datum:

Generate Sidecar XML Metadata file: XMP Standards Compliant NPS Metadata Standards Compliant

Chihuahuan Desert Network Intermountain Region Inventory & Monitoring Program



META

Insert/Edit META View META Help

Insert/Edit Single File MetaData

Select Image: 

Title: Authors:

Subject: Keywords:

Comments:

Date: Park Code:

Access Constraints: Copyright Notice:

Location Details: Contact Information:

Latitude: Longitude:

Datum:

Generate Sidecar XML Metadata file: XMP Standards Compliant NPS Metadata Standards Compliant

Chihuahuan Desert Network Intermountain Region Inventory & Monitoring Program



META

Insert/Edit META View META Help

View Image File MetaData

Select View Option: Single Image File Multiple Image Files

Select Image File

The selected folder does not contain any image files.

Title:	META Title
Authors:	META Author;
Subject:	META Subject
Keywords:	META Keywords;META Park Code;
Comments:	META Comments
Date Taken:	4/7/2010
Park Code:	META Park Code
Access Constraints:	Park Only
Copyright Notice:	META Copright Notice
Location Details:	META Location Details
Contact Information:	META Contact information
GPS Latitude:	32,16.2424626075236N
GPS Longitude:	106,44.8009872436523W
GPS Datum:	WGS 84



Chihuahuan Desert Network
Intermountain Region
Inventory & Monitoring Program



```
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  xmlns:exif="http://ns.adobe.com/exif/1.0/">
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  <dc:creator>META Author;</dc:creator>
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Chihuahuan Desert Network
Intermountain Region
Inventory & Monitoring Program



META META

Insert/Edit META View META Help

Insert/Edit Multiple File MetaData

[DownLoad Metadata Template File](#)

Select Images Folder:

Select Metadata File:

Worksheet Name:

Generate Sidecar XML Metadata file: XMP Standards Compliant NPS Metadata Standards Compliant



Image Management

- Upload to SharePoint
- Metadata is extracted and inserted into the appropriate columns
- Images are now searchable via SharePoint

Chihuahuan Desert Network Intermountain Region Inventory & Monitoring Program



Images - All Pictures - Windows Internet Explorer

http://inpchdnms03/CHDN/Springs/Images1/Forms/AllItems.aspx

Images - All Pictures

Site Actions

Springs Inventory > Images > All Pictures

SWNC Protocols | CHDN | SODN | SOPN

Search this site...

Picture Preview

Upload | Actions | Settings

Thumbnail

Type	Park Code	Title	Name	Subject	Details	All Pictures
	BIBI	Burro Tank	BIBI_BurroTank_19901027-1	I took this composite from the t... the east. Note the ducks in the... photo, also the tamarisk and cattails near the dam at left center of the right photo. Water enters the tank from two drainages in the left hand side o		
	BIBI	Burro Tank	BIBI_BurroTank_19950411-1	Roll# 80450281, exp. 20 & 21 - Replica of 1990 photo. Composite view of area facing west. Notice area of dead cattails and tamarisk at center of composite. Water enters tank from two drainages in left hand side of composite. Due to the heavy rains in	2476 x 929	4/11/1995 12:00 AM 2412 KB
	BIBI	Abbey Spring	BIBI_AbbeySpring_20101217 (1)	Over view of orifices	4000 x 3000	12/17/2010 10:40 AM 4354 KB
	BIBI	Abbey Spring	BIBI_AbbeySpring_20101217 (10)	Worked stone	4000 x 3000	12/17/2010 11:25 AM 3960 KB

Details

- Thumbnail
- Filmstrip

All Pictures

- Selected Pictures
- Default View
- Coordinates
- Modify this View
- Create View
- Configure Views for This Location

Recycle Bin

All Site Content

Local intranet | Protected Mode: Off

100%

Chihuahuan Desert Network Intermountain Region Inventory & Monitoring Program



Springs - All Items - Windows Internet Explorer

http://inpchdms03/CHDN/Springs/Lists/Springs/AllItems.aspx

Google

Springs - All Items

Springs - CAVE028

CAVE006	No Na	/21/2010	Other
CAVE007	Spide	/23/2010	Rheochrene
CAVE008	Dead	/24/2010	Rheochrene
CAVE009	Stone	/21/2010	Rheochrene;Hillslope
CAVE010	Clemi	/5/2010	Rheochrene
CAVE011	Longy	/22/2010	Rheochrene
CAVE014	Grami	/25/2010	Rheochrene;Other;Laminachrene
CAVE016	Kids	/5/2010	Rheochrene;Hillslope
CAVE017	Crown	/20/2010	Hillslope
CAVE018	Maple	/20/2010	Rheochrene
CAVE019	Rock	/6/2010	Hillslope;Other
CAVE020	Dog P	/8/2010	Rheochrene
CAVE021	Upper	/20/2010	Tinaja
CAVE022	Slaug	/23/2010	Hillslope
CAVE023	Upper	/23/2010	Hillslope
CAVE024	Upper	/22/2010	Rheochrene
CAVE025	Upper	/6/2010	Rheochrene
CAVE026	No Na	/23/2010	Hillslope
CAVE027	Previc	/8/2010	Rheochrene
CAVE028	West	/20/2010	
CAVE030	Old Q	/5/2010	Rheochrene;Heleochrene
CAVE031	Iron P	/5/2010	Rheochrene;Laminachrene
CAVE032	Cut L	/5/2010	Hillslope;Other
CAVE033	Pine	/21/2010	Hillslope
CAVE038	No Na	/21/2010	Other
CAVE042	No Na	/24/2010	Rheochrene
CAVE043	No Na	/21/2010	Other
CAVE045	No Na	/26/2010	Unknown
CAVE047	Sewag	/26/2010	Rheochrene
CAVE048	Forge	/25/2010	Rheochrene
CAVE049	No Na	/21/2010	Limnocrane
CAVE050	Arc P	/23/2010	Rheochrene
CAVE053	Angels		

Done

Local intranet | Protected Mode: Off

100%



Without metadata
a picture is just a picture





Brent Frakes
Business Analyst
NPS Inventory & Monitoring Program

I&M Climate Database Overview

Brent Frakes - IMD

Problem

- Common needs among all networks for using climate data
- Large volume of data
- Data formats vary
- Acquisition process can be involved
- All data is not in one place
- Waiting for a solution from above... and waiting.....

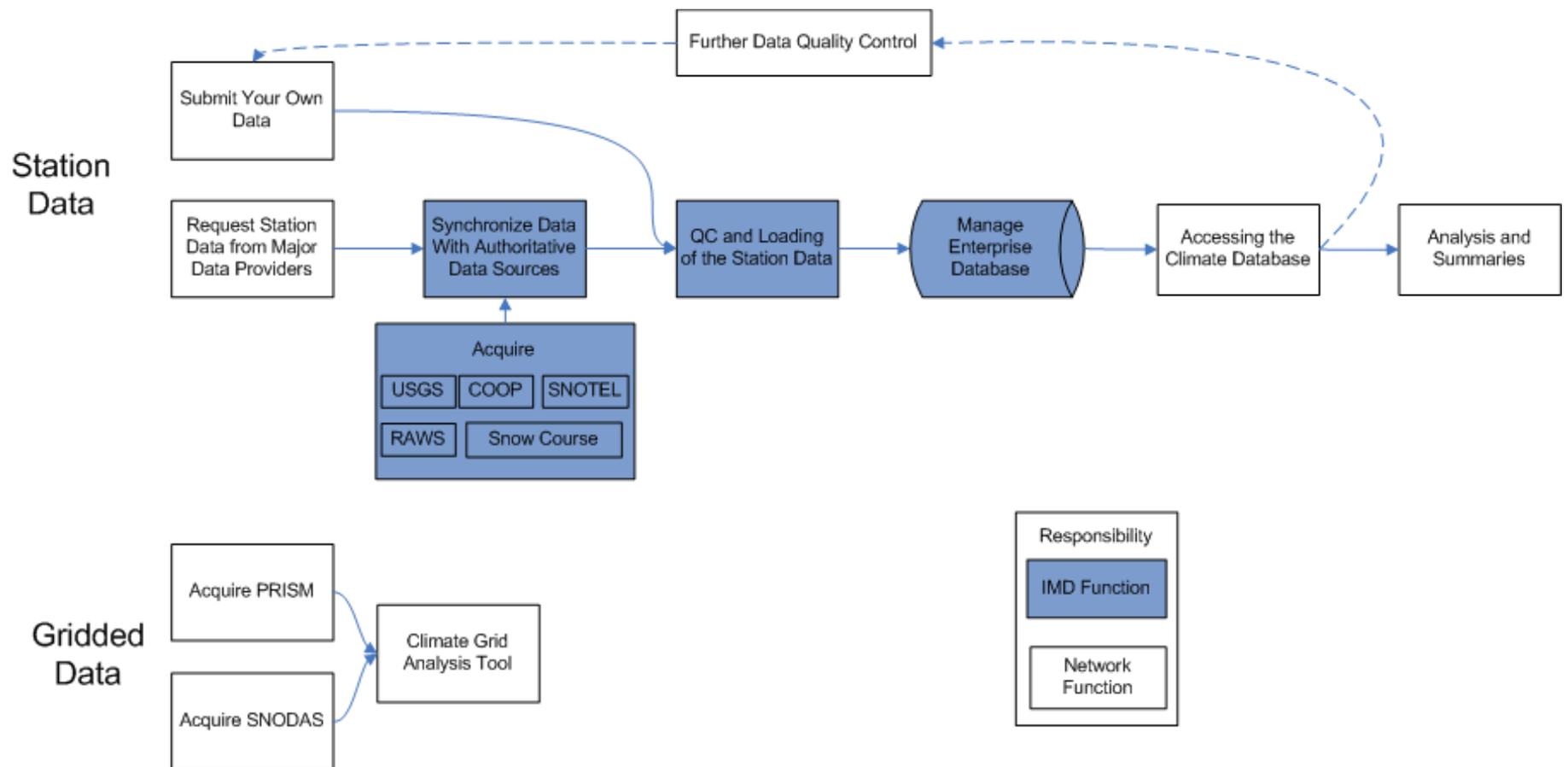
Solution

- Develop a basic climate data repository
- Purpose to meet most basic needs of all networks
 - Data Acquisition from Key Sources
 - Data Management
 - Easy Access for Summaries and Analysis
- We need to manage our data until someone else does

Database Goals

- Streamline and centralize the acquisition of national-level climate data
- Prevent duplication of effort
- Provide a stable and supported repository for all climate data
- Easy access to data in a single and consistent format
- Provide tools to analyze gridded climate data
- Mentor the data management community
- Ultimately transfer management duties to the Networks
- Help clarify NPS business requirements for climate data
- Be positioned to provide the data in a consistent and well-documented format when another more appropriate entity has capacity to fully support the NPS's business requirements for the management of climate data

Workflow



Requesting Stations

- Send us a list of stations
- We'll sync annually with the major providers
- Very basic QC of data on load
 - Duplicate values
 - Flag unusual values
 - Negative precipitation
 - $T_{min} > T_{max}$
 - Report error back to sources

Submitting Data

- Give us a spreadsheet of your time series
- We'll load it on the database
- You keep track of the versions

Accessing Data

- Direct connection / Data Feeds
 - Excel, Access, Python, R, SSMSE, most stats and graphing packages
 - All data is in the same format!
- Summaries
 - Common summaries needed for reports
 - We are resurrecting the R-Code from NPClimate

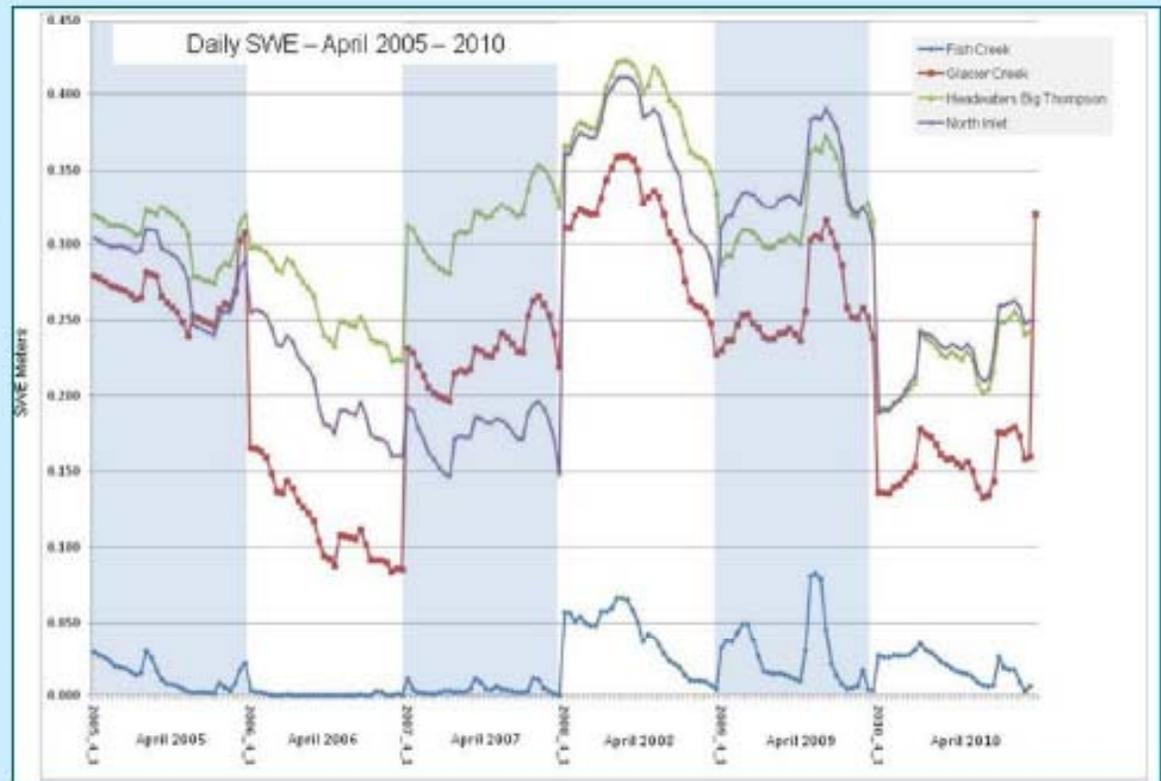
Example Summaries

- Monthly totals/averages
- Annual totals/averages
- Annual/monthly total departure from reference period
- Growing degree days

Gridded Datasets

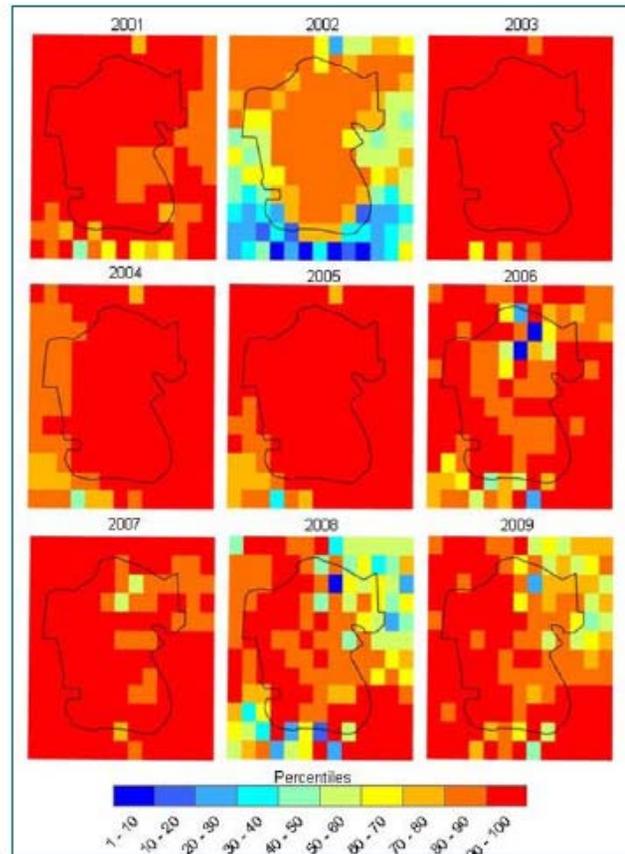
- PRISM (precipitation, temperature, humidity)
- SNODAS (snow water equivalent)
- Analyses
 - Percentile
 - Single time series averaged over an area (zonal statistics)

Multi-Grid Zonal Stats



Topographic map of Rocky Mountain National Park and four NHD 12th level HUCs. Graph of the SNODAS derived mean daily snow water equivalent values (1034) for these four NHD 12th level HUCs for the month of April between 2005-2010.

Percentile



The PRISM annual mean minimum temperature (tmin) percentile calculations for each year between 2001-2009 versus the thirty year period between 1971-2000 for ROMO (outline in black).

Project and SOP Location

- <https://nrinfo.nps.gov/Reference.mvc/Profile?Code=2167254>
- Can also be located by searching for 'climate database'
- Regular updates to SOPs will be posted to NRInfo



Margaret Beer
Data Manager
NPS Inventory & Monitoring Program

National Park Service
U.S. Department of the Interior
Inventory & Monitoring Program



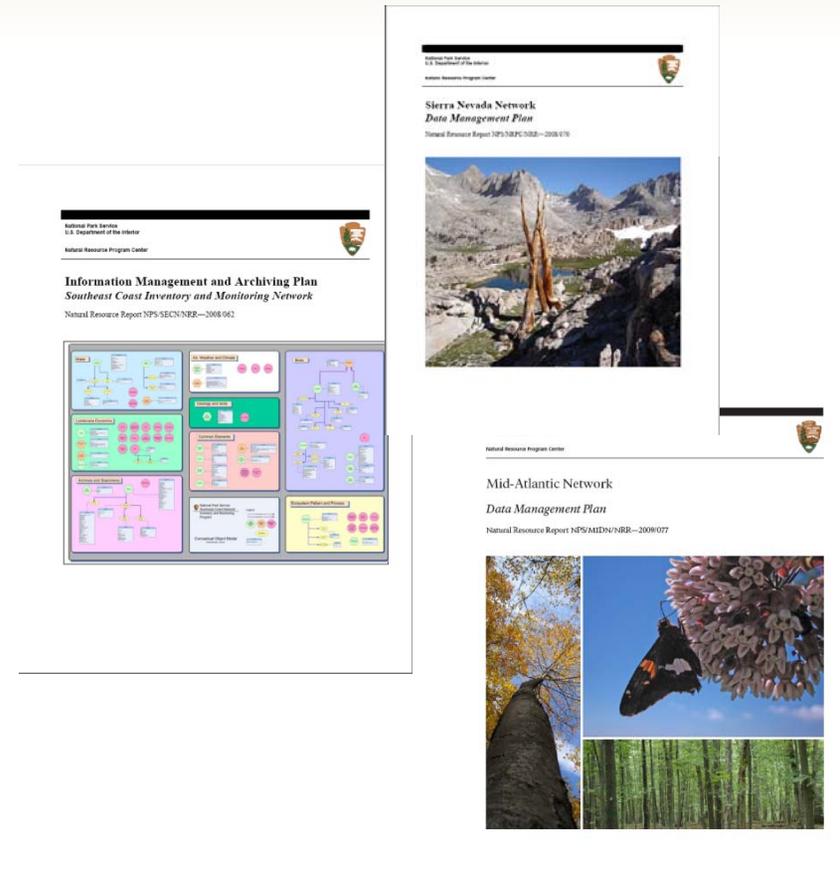
Inventory & Monitoring Program

Data Management Technical Reviews

2001-2005 – Development of Data Management Plans

2005 – 2010 – Application of plans and procedures

- ❖ **How are we doing?**
- ❖ **What's working?**
- ❖ **What isn't?**



Goal of Data Management Tech Reviews:

a process for structured, periodic reviews of network data management practices, to ensure that, on a network and national level, monitoring data are well-managed, high-quality, secure, documented, and available to end users.

.

Benefits:

- **Expectations** of network data management are **clarified** via established benchmarks
- Data managers have the opportunity to receive focused **attention and evaluation** of their procedures
- I&M can programmatically **assess the effectiveness** of network data management
- Areas in which the **national I&M Program** can provide more structured guidance or assistance can be identified
- **Confidence** in data is increased with the knowledge that data management procedures are periodically reviewed and evaluated

-
- January, 2010: Workgroup of 11 data managers plus national data manager
 - Used existing data management plans as starting point
 - Multiple conference calls throughout the year:

? ? What are the essentials ? ?

Benchmarks:

- generally-accepted standards, conventions, and rules.
- not the “lowest common denominator” nor unrealistic goals or practices.
- developed via a collaborative process by peers
- a primary point of reference for reviews
- not absolutes: networks and parks are diverse; the process must be flexible



End result: three-part approach

1. “Stakeholder Survey”

Ask peers, cooperators, other staff how data management is working in their network

2. “Matrix”

Self-assessment on 200+ items; some marked “priority”

3. **Review** with program manager, submit to national data manager, follow-up, if desired, with on-site visit of peers

All reviews submitted to national data manager by early May



Stakeholder Survey Questions

Always Usually Sometimes Rarely Don't know Comments:

1. Are servers and Internet **connections** in your program available, sufficient, and in good working order?
2. Are network **files organized** and easy to find (e.g., project data, GIS files, digital photos, administrative files)?
3. Are data management **SOPs** in monitoring protocols followed?
4. Is the data manager knowledgeable about how **project data** are collected, handled, and used?
5. Are field staff adequately **trained** in the methods and equipment used to collect and manage data?
6. Do project staff and cooperators/contractors follow written procedures for handling **sensitive** or protected data?
7. Are project databases designed for efficient **data entry**, manipulation, summary, and reporting?
8. Are **data entered** into project databases in a timely manner?
9. Do data management and processing activities meet project reporting **deadlines**?
10. Do you have confidence in the way monitoring data are processed and **error-checked**?
11. Are project **metadata** and project documentation records developed and posted in a timely manner?
12. Are products **cataloged** in NRInfo (formerly NatureBib and the NPS Data Store) as they are completed?
13. Can network staff easily view and understand the **status of projects** and the schedule for deliverables?
14. Are you able to easily find **hard copy documents** related to network projects (e.g., contracts, scopes of work, draft and final products)?
15. Are network **websites** or **SharePoint sites** well-organized, useful, and kept up-to-date?
16. Are you able to find and use **photos** related to network or project work?

Topic Area	Benchmark/Goal	Item	Required	1-3 or n/a	Assessments	Comments
					Please provide a rating for each assessment item.	
1. Infrastructure and Systems Architecture	1-a. Information technology infrastructure meets the needs and circumstances of the network and staff.	1	✓		Infrastructure is sufficiently documented so that a new staff member can understand and use it	
		2			There is a written plan for managing hardware, software, LAN/WAN maintenance, and sensitive equipment	
		3			Program has adequate server space, speed, and bandwidth for staff to work efficiently.	
		4	✓		Software licenses are compliant and current	
	1-b. Training and support for using the infrastructure and systems is available to staff.	5			Staff have the software licenses they need	
		6	✓		IT support, or network staff skills, are sufficient to keep the computers, servers, and Internet and NPS connectivity operational with a minimum of down time	
		7			Servers are located in a secure area with limited access	
		8			IT requests and problems are resolved in a timely and effective manner	
		9			Staff have the training and skills to manage hardware and software needed by the network (e.g., SQL server, ArcGIS Server, or Access databases with complex code)	
		10			Staff have computer user account credentials and file permission settings to complete their work	
		11			Network infrastructure supports distributing data to the parks and public (e.g., ArcGIS Server, web-based applications, SharePoint)	
2. Project Management and the Data Life Cycle	2-a. Data management requirements are incorporated into all elements of the monitoring project life cycle (e.g., initiation, planning, implementation, closing).	12			Data Management staff participate in project planning meetings and in developing data-related sections of study plans and project protocols (e.g., provide guidance and feedback on data forms or data dictionary components.	
		13			Contracts, agreements, permits and protocols include standard language describing the formats, specifications, and timelines for data deliverables.	
		14	✓		Data management SOPs are followed for protocols that are implemented.	
		15	✓		Data management SOPs are maintained and updated as changes occur. A change log is maintained that documents changes.	
		16			Each monitoring protocol includes a data management section and SOPs that describe in detail how data management-related tasks are accomplished.	
		17			A system is in place to track the status of each monitoring project and its associated deliverables.	
		18	✓		Project deliverables are posted and archived as required or planned.	
		19			Seasonal or final project wrap-up sessions that include data management staff are held that evaluate procedures and tasks associated with the data life cycle.	
		20			Data managers perform or participate in annual or final project evaluation and close-out activities.	
		21			The data manager is provided adequate time and advance notice to properly scope, plan, develop, test, and implement database applications and other solutions to meet project needs	
		22			The project data life cycle is communicated so that all staff understand their roles and responsibilities.	

Topic Area	Benchmark/Goal	Item	Required	1-3 or n/a	Assessments	Comments
					Please provide a rating for each assessment item.	
10. Data Distribution	10-a. Develop and maintain network Internet and Intranet (or SharePoint) web sites containing information and products.	145			Public-facing websites are indexed by major search engines.	
		146			Internet and intranet sites follow I&M and NPS recommended design standards.	
		147			The program website lists all products regardless of whether they are available on the web or through other venues.	
		148	✓		The network website clearly identifies vital signs and direct links to associated protocols and products.	
		149			The network follows an established procedure for updating website content and posting data.	
		150			The websites provide contact information for user feedback and information requests.	
	10-b. Post products to the NPS Natural Resource Information Portal (NRInfo) and other NPS repositories.	151	✓		Network data, metadata, and information products are regularly posted to the NRInfo Portal (formerly NPS Data Store and NatureBib)	
		152			A process is in place to upload digital data sets and documents associated with legacy Data Store or NatureBib records.	
		153			Versions and editions of reports and data sets are managed and clearly identified	
		154	✓		Water-quality data are regularly submitted to the NPS Water Resources Division and NPSstoret	
		155			Species lists are certified on a reasonable schedule as studies are completed	
		156			A procedure is in place for updating NPSpecies with new information as a result of field work or other information sources	
		157	✓		Protocols are cataloged in the NPS Protocol Database.	
		158			All NPS publication series documents are uploaded to the NRInfo Reference Application.	
	10-c. Complete quality control and documentation before data are made publically available.	159	✓		Complete quality control and documentation of all data products before data are made publically available; any exceptions to this are clearly documented and marked as such.	
		160			Metadata are clearly attached to or integrated with products as part of the distribution processes.	
		161			All products are subject to review by appropriate network staff before submission for publication	
	10-d. Evaluate data and products for sensitive information before release	162			NPS staff approve, in advance, the distribution or presentation of potentially sensitive data or products regardless of format.	
		163	✓		Distribution of sensitive items is appropriately managed and controlled	
		164			All NRInfo Reference records and products from legacy applications are reviewed by the Unit Point of Contact (UPOC)	
165				NPSpecies park species records are vetted by park staff before public release		

Final Steps:

Review with program
manager

submit to national data
manager

follow-up, if desired, with
on-site visit of peers

National Data Manager: Reviews results for patterns:

- Are there areas consistently needing improvement or attention?
- Are there topics or procedures that could benefit from national standards or procedures?
- Which network is particularly good at what and how can we share expertise?
- Are there networks with problems area that could benefit from focused assistance?
- Can we use the process and results as the basis for a revised approach for DM plans?

-
- 28 networks have indicated “yes,” they will be conducting the technical review
 - 4 networks have said “not sure.”

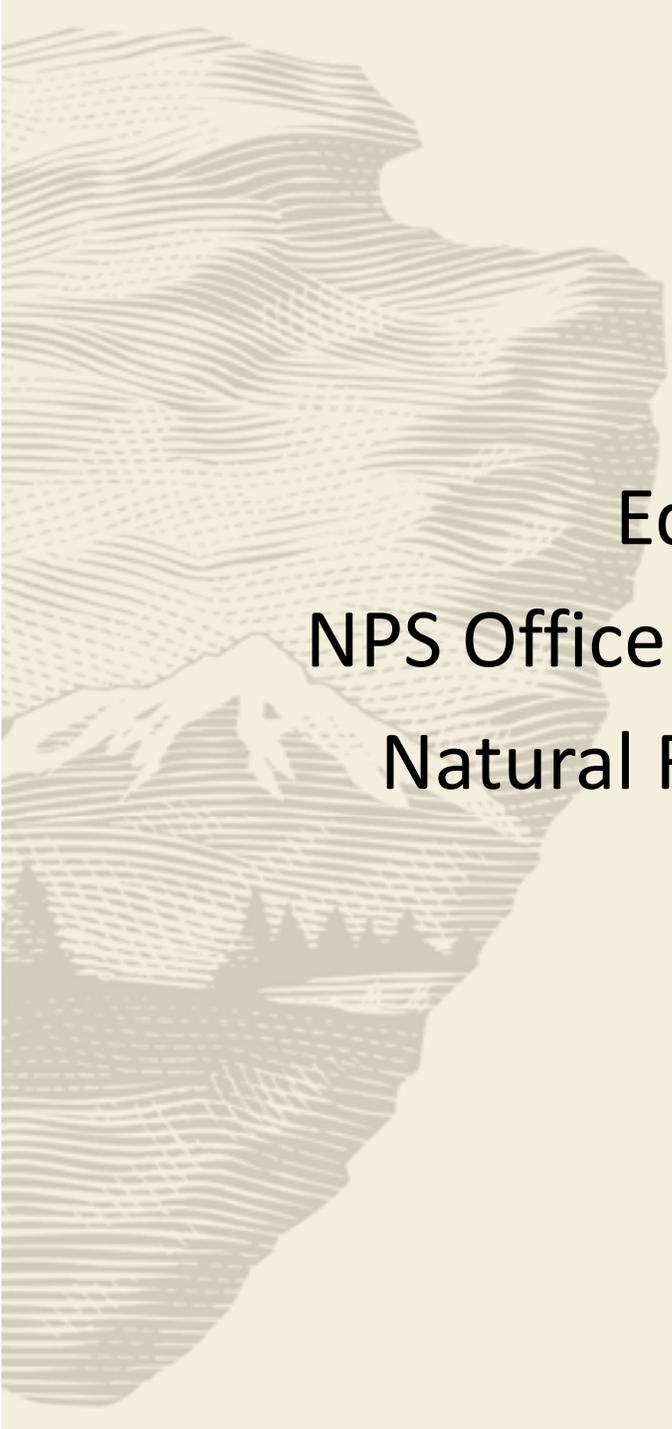
More information, including matrix, survey template, conference call notes and interim drafts available on IMNetSharePoint: **Imnetsharepoint.nps.gov**

Process and results will (we hope) be summarized in a Natural Resource Report.

Thanks and appreciation to all workgroup members:

- Bill Johnson (SEAN)
- Bill Moore (CUPN)
- Christina Wright (SECN)
- Gareth Rowell (HTLN)
- Geoff Sanders (NCRN)
- Helen Thomas (NCPN)
- John Boetsch (NCCN)
- Kristina Callahan (ERMN)
- Mark Hart (GLKN)
- Rob Daley (GRYN)
- Scott Miller (ARCN)
- Sean Mohren (KLMN)





Sara Melena

Education Specialist

NPS Office of Education and Outreach

Natural Resource Program Center

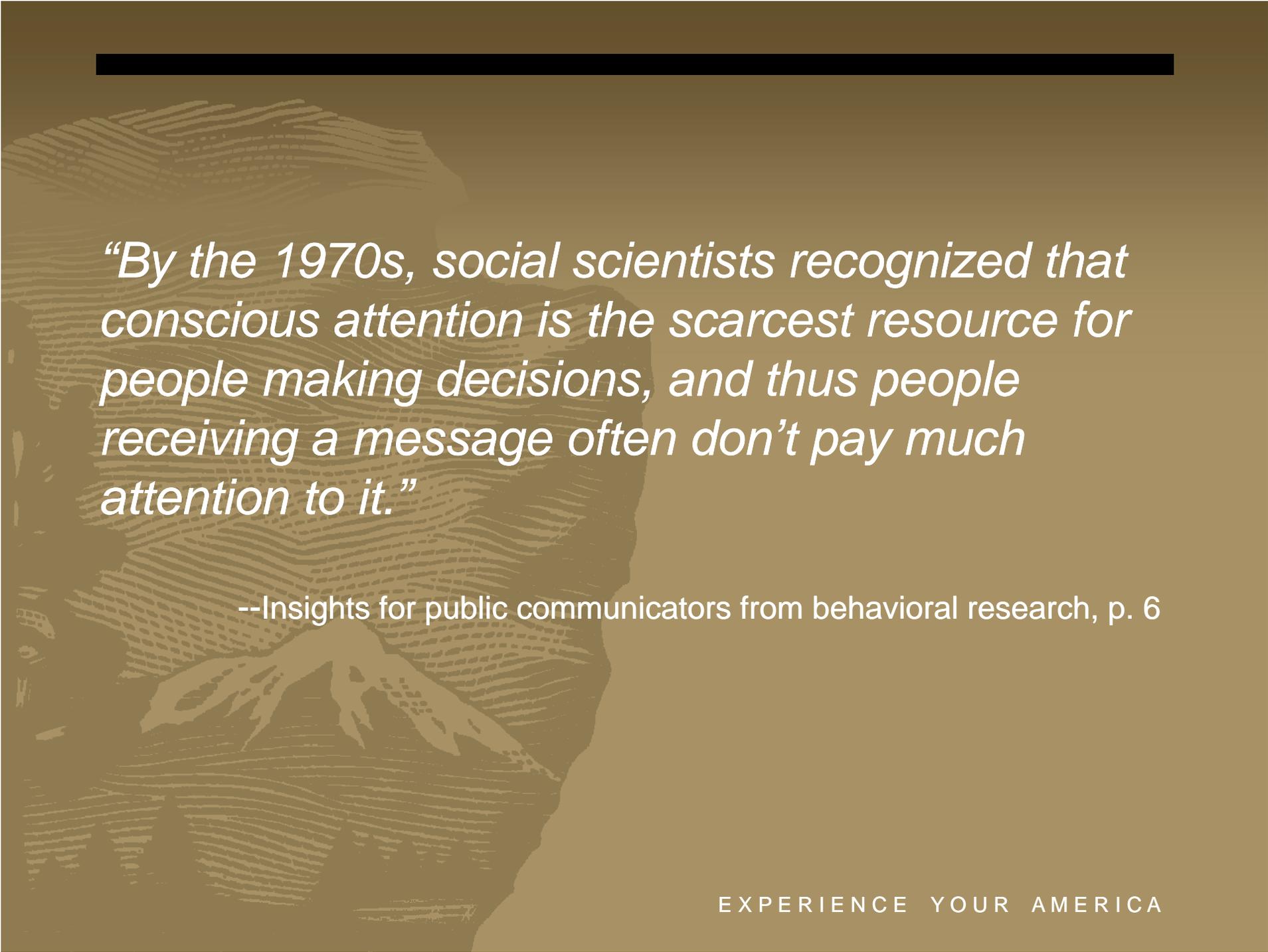
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Natural Resource Stewardship & Science
Office of Education & Outreach



Communication Planning

EXPERIENCE YOUR AMERICA



“By the 1970s, social scientists recognized that conscious attention is the scarcest resource for people making decisions, and thus people receiving a message often don’t pay much attention to it.”

--Insights for public communicators from behavioral research, p. 6

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Communication Planning

Expertise

- Subject matter experts
- Social scientists
- Writers
- Editors
- Designers
- Stakeholders

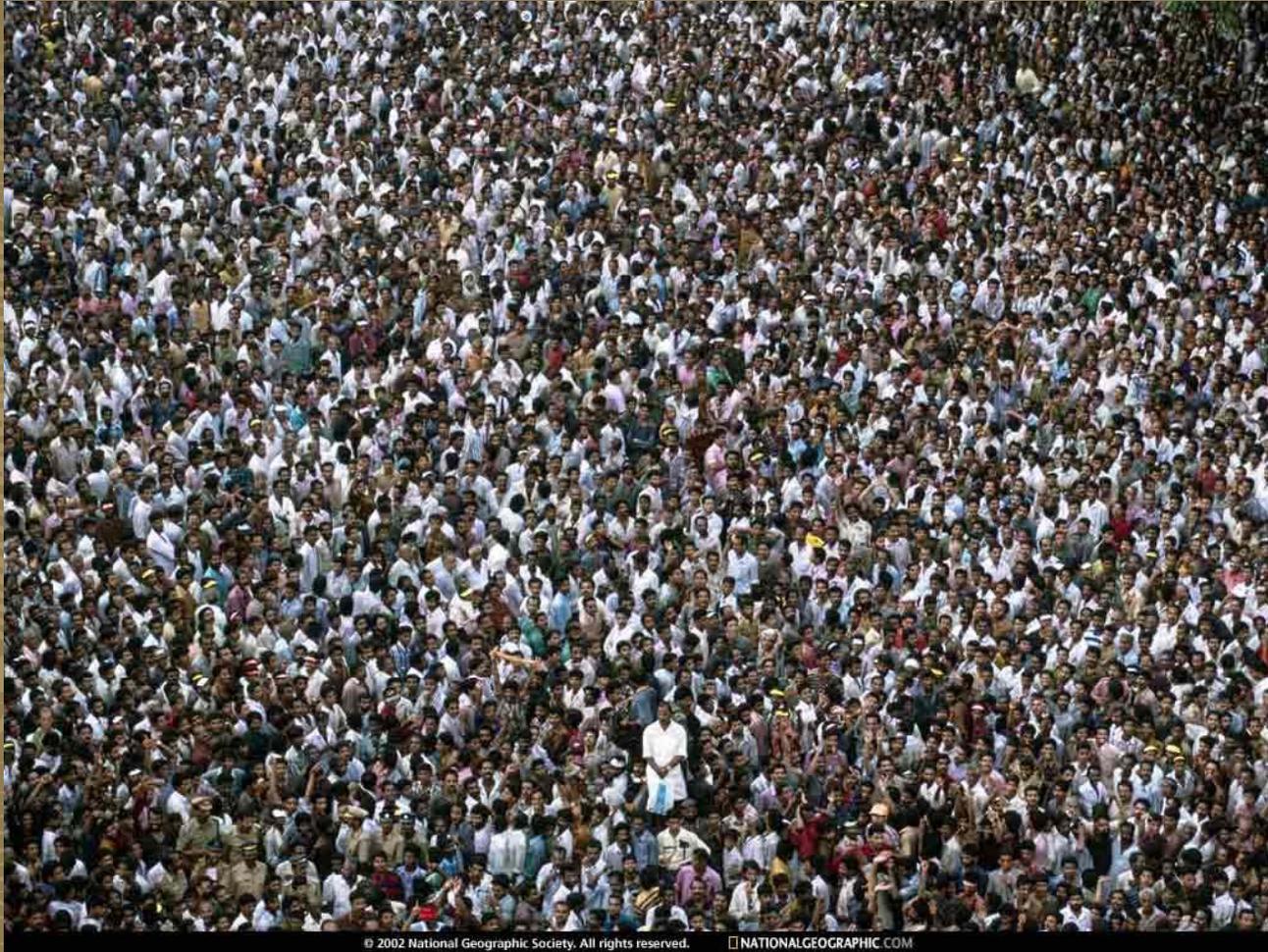
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Goals



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Audience



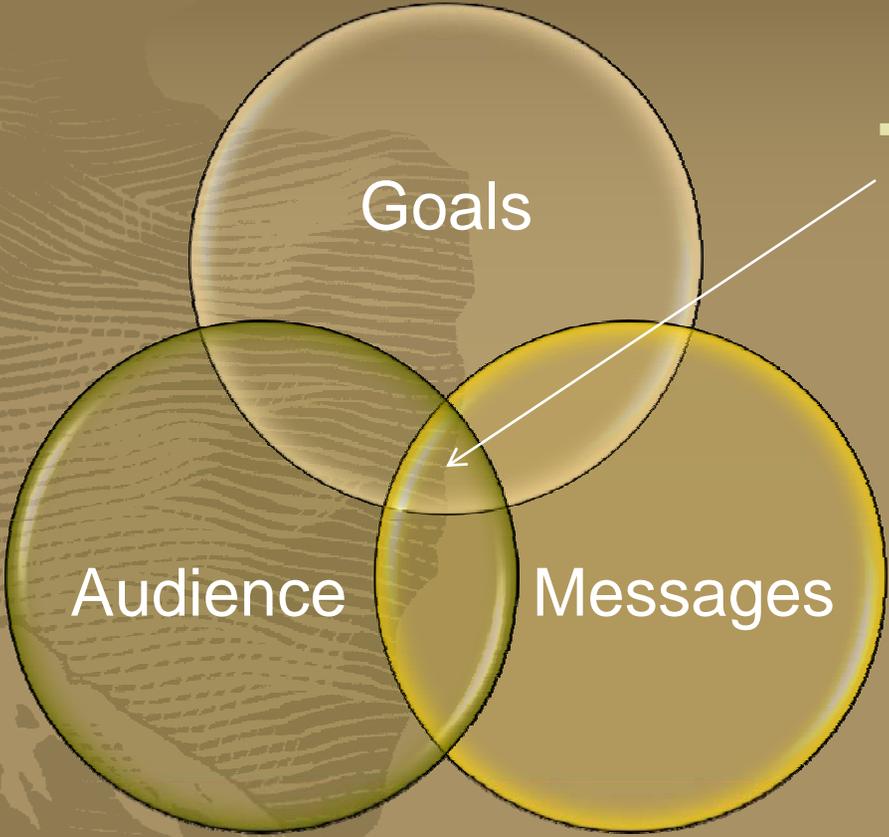
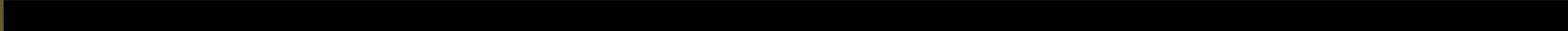
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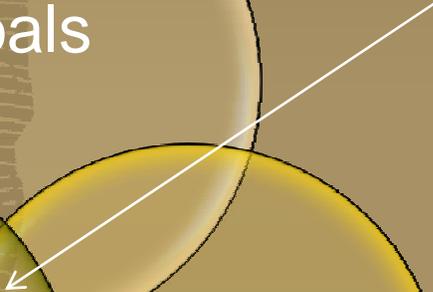
Messages



1. What is the audience most interested in?
2. What are the most significant stories we have to tell?
3. What does management want to communicate?



Tactics



EXPERIENCE YOUR AMERICA

Implementation



EXPERIENCE YOUR AMERICA

Implementation: Logic Model Approach

Resources	Activities (Tactics)	Outputs (Measures)	Outcomes (Objectives)	Impact (Goals)
<p>We will need the following to accomplish our activities:</p> <ul style="list-style-type: none"> •Staff (graphic designers, writers) •Budget (printing, video production) •Time 	<p>In order to address our problem or asset we will conduct the following activities:</p> <ul style="list-style-type: none"> •Workshops •Resource briefs •Relationship building 	<p>These activities will produce the following evidence of service delivery:</p> <ul style="list-style-type: none"> •4 newsletters will be published per year 	<p>We expect that if completed or ongoing these activities will lead to the following changes in 1-3 then 4-6 years</p> <ul style="list-style-type: none"> •Parks will know when monitoring is occurring 	<p>If completed these activities will lead to the following changes in 7-10 years.</p> <ul style="list-style-type: none"> •Parks will integrate monitoring results into all aspects of park operations.

Resources

Brochu, Lisa. (2003). *Interpretive Planning: The 5-M Model for Successful Planning Projects*. Fort Collins, CO: National Association for Interpretation.

Jacobson, S.K. (1999). *Communication Skills for Conservation Professionals*. Washington, D.C.: Island Press.

National Park Service. (1995). *Interpreting Critical Natural Resource Issues in Canadian and United States National Park Service Areas*. (Natural Resource Report NPS/NRCACO/NRR-95/17). Denver, CO: M.E. Whatley.

W.K. Kellogg Foundation. (January, 2004). *Using Logic Models to Bring Together Planning, Evaluation, and Action: Logic Model Development Guide*. Battle Creek, MI.

Office of Education & Outreach

Natural Resource Stewardship & Science

<http://www1.nrintra.nps.gov/oeo/>



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Christie McDonald
Digital Data Manager
NPS National Information Systems Center



The New NPS Focus Digital Asset Management System and NPSearch, a New NPS Search Portal

Christie McDonald

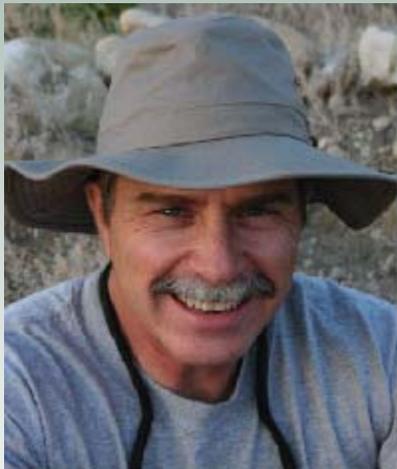
Digital Data Manager/Developer

Resource Information Services Division





The NPS Focus/NPSearch Team



Joe
Gregson



Chris
Dietrich



Christie
McDonald



Dan
Warner





NPS Focus Background

- 2000 - NPS Focus Research Station: Federated searching of library catalogs, GIS data (pre-Data Store), museum collections, web content
- 2005 - NPS Focus Digital Library: Added digital asset hosting, discovery, access and digital asset services: National Register, PMIS, FMSS



Wonder Lake,
Denali National
Park and Preserve





NPS Focus

- Research Station for federated searching across systems
- Digital Library for managing NPS digital assets: photos, documents, drawings, maps, and GIS images
- Public and Internal sites
- Service-wide scope
- Web services



Yosemite National
Park





Collections in Focus

- Parks/Regions/Programs
 - All Parks/Programs = 120,500+
 - National Register of Historic Places = 91,000
 - PMIS = 5,900
 - Civil War Heritage Collection = 5,800
 - Facilities Management Assets = 2,800
 - Abandoned Mine Lands = 900+
 - Fire Management Program Center
 - HABS-HAER Historic Buildings
 - Natural Resources Images
 - Spanish/Indian Mission Records
 - Submerged Resources Center
 - Midwest Region Map Catalog
 - American Recovery and Reinvestment Act



South Carolina
State Monument





NPS Focus Web Stats

- Web Statistics
 - 3/12/2010 through 3/18/2010
 - Total traffic through Denver DMZ by hits – 5.9 million hits
 - 2nd most accessed site – NPS Focus system sites with 5.7% of all traffic



Bighorn Sheep,
Arches National
Park





NPS Focus Features

- File Management Capabilities
 - Batch Upload
 - File compression
 - File viewers
 - paging
 - zoom and pan
 - File download options
 - Image web service
 - Embedded links
 - URL directed search



Aster Flowers,
Cuyahoga Valley
National Park





InsideNPS
Information Gateway for NPS Employees

National Park Service
U.S. Department of the Interior

HOME COMMUNITY PARKS REGIONS WASO PROTECTION TECH/TOOLS BUSINESS SUPERINTENDENTS

NPS Focus Search Go

Digital Library & Research Station forums | lotus notes | insideHELP | quicklinks | phonebook | systems

NPS Focus
<http://NPSfocus.nps.gov>

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- Alphabetical Lists
- Add/Edit Records
- About
- Help

What's here? NPS Focus provides one-stop searching across NPS and partner databases of information resources. Many of these have linked images, data sets, or Web pages.

Focus on

(Type in a search term above like fire management or visitor study or lighthouse)

Select collections. Check all that apply.
(Many [more choices](#) available on the Advanced Search screen!)

<input type="checkbox"/> Denver Service Center E-TIC	<input type="checkbox"/> NPS.gov and Inside NPS
<input type="checkbox"/> GIS - Geospatial data sets	<input type="checkbox"/> NPS Voyager Library Catalog
<input checked="" type="checkbox"/> NPS Digital Library	



146 NPS.GOV | DOI

<http://focus.inside.nps.gov>





National Park Service

National Park Service
U.S. Department of the Interior



NPS Focus
digital library &
research station

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WHAT'S HERE? ... a growing collection of thousands of images, documents, drawings and maps about the cultural and natural resources maintained by the National Park Service.

(To start: type in a search term above like lighthouse or wild flower - OR- choose Browse below.)

-OR- BROWSE IMAGES BY SUBJECT



-OR- BROWSE IMAGES BY PARK



<http://npsfocus.nps.gov>





National Park Service
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NPS Focus
digital library & research station

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FULL RECORD DISPLAY

Current Record: 6 of 17 in NPS Digital Library

Go back to: [Title List](#) | [Revise Search](#)

[Previous Record](#) | [Next Record](#)

Part 1

Format: ?
File Size: ?
Width: ? x ? pixels
DPI: ? dpi
Bit Depth: ? bit

Part 2

Format: ?
File Size: ?
Width: ? x ? pixels
DPI: ? dpi
Bit Depth: ? bit

Lighthouse at Fort Jefferson National Monument, Florida in 1994 [Image]

Author/Creator: Seymour, Brett T. *Photographer*

Publisher: U.S. National Park Service

Published: 08/01/1994

Access: Public access

Restrictions: Public domain

Is Part Of: Submerged Resources Center Digital Collection

Note: Historic lighthouse was constructed in 1876.

Subject: [Lighthouses -- 19th century](#)

Subject: [Forts -- 19th century](#)

Park name: Dry Tortugas National Park

Place: Florida -- Monroe County -- Garden Key -- Dry Tortugas Islands -- Dry Tortugas National Park -- **Fort Jefferson** National Monument

Time Period: 08/01/1994

Time Period: 01/01/1876

Record Number: 230864

Record Owner: WASO - Submerged Resources Center





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Create JPG sized up to:
Thumbnail
600 x 600
1000 x 1000
1500 x 1500

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Image Home
Zoom In
Zoom Out
Pan Left
Pan Right
Pan Up
Pan Down

[Close image](#)
and return to record

Title:
Restrictions:
File Name: DRTO-GTS-BTS.sid

74

Time Period: 08/01/1994

Time Period: 01/01/1876

Record Number: 230864

Record Owner: WASO - Stibmerged Resources Center





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Title:
Restrictions:
File Name: DRTO-GTS-BTS.sid

74

Time Period: 08/01/1994

Time Period: 01/01/1876

Record Number: 230864

Record Owner: WASO - Stibmerged Resources Center





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Title:
Restrictions:
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74

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Title:
Restrictions:
File Name: DRTO-GTS-BTS.sid

74

Time Period: 08/01/1994
Time Period: 01/01/1876

Record Number: 230864
Record Owner: WASO - Stibmerged Resources Center





NRHP in Focus

- National Register of Historic Places
 - > 91,000 metadata records
 - Nomination form + images
 - > 181,000 images/documents



Mountain Yellow-Legged Frog,
Sequoia & Kings
Canyon National
Park





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and not or

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State and City and not or
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(To start, type in a search term above like lighthouse or monument.)

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Boca Chita Key Historic District [Image]

URL: <http://pdh.st.focus.nps.gov/docs/NRHP/Text/97000795.pdf>
Link will open in a new browser window

URL: <http://pdh.st.focus.nps.gov/docs/NRHP/Photos/97000795.pdf>
Link will open in a new browser window

Publisher: National Park Service
Published: 08/01/1997
Access: Public access
Restrictions: All Rights Reserved
Format/Size: Physical Document with text, photos and map
Language: [English](#)

Note: NW section of Boca Chita Key, roughly bounded by Biscayne Bay and a stone wall

Item No.: 97000795 NRIS (National Register Information System)

Subject: [EVENT](#)
[ARCHITECTURE/ENGINEERING](#)
[ARCHITECTURE](#)
[ENTERTAINMENT/RECREATION](#)
[SOCIAL HISTORY](#)
[MODERN MOVEMENT](#)
[DISTRICT](#)
[1925-1949](#)

Keywords: [August Geiger Film; 1937; 1945](#)

Park name: [Biscayne National Park](#)
Place: [FLORIDA — Miami-Dade County](#) — [Biscayne National Park vicinity](#)
Park code: [BISC](#)

Record Number: 402772
Record Owner: National Register of Historic Places





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Boca Chita Key Historic Distr

URL: <http://pdthost.focus.nps.gov/>
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URL: <http://pdthost.focus.nps.gov/>
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Published: 08/01/1997

Access: Public access

Restrictions: All Rights Reserved

Format/Size: Physical Document with text, plot

Language: e.g. English

Note: NW section of Boca Chita Key, 10

Item No.: 97000795 NRIS (National Regis)

Subject: EVENT

Subject: ARCHITECTURE/ENGINEER II

Subject: ARCHITECTURE

Subject: ENTERTAINMENT/RECREATI

Subject: SOCIAL HISTORY

Subject: MODERN MOVEMENT

Subject: DISTRICT

Subject: 1925-1945

Keywords: August Geiger Film; 1937; 1945

Park name: Biscayne National Park

Place: FLORIDA — Miami-Dade County — Biscayne National Park vicinity

Park code: BISC

Record Number: 426272

Record Owner: National Register of Historic Places

◀ Previous Page Jump To: of 26 Next Page ▶

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National Park Service

**NATIONAL REGISTER OF HISTORIC PLACES
REGISTRATION FORM**

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "X" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Boca Chita Key Historic District

other names/site number _____

2. Location

street & number The northwest portion of Boca Chita Key, bounded by Biscayne Bay on the north and west, the remnants of a stone wall on the south, and an imaginary line on the east that area behind the developed area from the stone wall to the north shore

city or town vicinity of Miami _____ not for publication _____

state Florida code FL county Dade vicinity _____

zip code _____ code 025

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register Criteria. I recommend that this property be considered significant nationally statewide locally. (See continuation sheet for additional comments.)

Ronald M. Shenberg 6/16/97
Signature of certifying official Date
National Park Service
State or Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. (See continuation sheet for additional comments.)

Judith K. Poffe 5-28-97
Signature of commenting or other official Date
Bureau of Historic Preservation, Florida Dept. of State

File Name: 97000795.djvu 170

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2. takes about 20 sec
3. About DiVu and pl

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URL: <http://pdthost.focus.nps.gov>
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URL: <http://pdthost.focus.nps.gov>
Link will open in a new browser w

Publisher: National Park Service
Published: 08/01/1997
Access: Public access
Restrictions: All Rights Reserved
Format/Size: Physical Document with text, photo
Language: e.g.: English

Note: NW section of Boca Chita Key, N
Item No.: 97000795 NRIS (National Regi
Subject: EVENT
Subject: ARCHITECTURE/ENGINEER
Subject: ARCHITECTURE
Subject: ENTERTAINMENT/RECREAT
Subject: SOCIAL HISTORY
Subject: MODERN MOVEMENT
Subject: DISTRICT
Subject: 1925-1945

Keywords: August Geiger Film; 1937; 1945
Park name: Biscayne National Park
Place: FLORIDA — Miami-Dade County — Biscayne National Park vicinity
Park code: BISC

Record Number: 405272
Record Owner: National Register of Historic Places

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← Previous Page Jump To: 2 of 26 Next Page →

Biscayne National Park, Florida

4. National Park Service Certification

I hereby certify that this property is:

entered in the National Register. *M. J. M. V. G. 8/1/97*
See continuation sheet.
determined eligible for the National Register
See continuation sheet.
determined not eligible for the National Register
removed from the National Register
other (explain):

Signature of Keeper Date of Action

5. Classification

Ownership of Property (Check as many boxes as apply)	Category of Property (Check only one box)
<input type="checkbox"/> private	<input type="checkbox"/> building(s)
<input type="checkbox"/> public-local	<input checked="" type="checkbox"/> district
<input type="checkbox"/> public-State	<input type="checkbox"/> site
<input checked="" type="checkbox"/> public-Federal	<input type="checkbox"/> structure
	<input type="checkbox"/> object

Number of Resources within Property
(Do not include previously listed properties in the count)

Contributing	Noncontributing	
3	0	buildings
0	0	sites
8	4	structures
1	0	objects
12	4	Total

Number of contributing resources previously listed in the National Register: N/A

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.): N/A

Page 2
Page 3
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Page 6

File Name: 97000795.djvu 170

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2. takes about 20 seconds
3. About [DjVu](#) and [plugin help](#)

Choose format: [JPG](#) | [DjVu](#) [Begin DjVu install](#)

Boca Chita Key Historic District [Image]

URL: <http://pdh.st.focus.nps.gov/docs/NRHP/Text/97000795.pdf>
Link will open in a new browser window

URL: <http://pdh.st.focus.nps.gov/docs/NRHP/Photos/97000795.pdf>
Link will open in a new browser window

Publisher: National Park Service
Published: 08/01/1997
Access: Public access
Restrictions: All Rights Reserved
Format/Size: Physical Document with text, photos and map
Language: English

Note: NW section of Boca Chita Key, roughly bounded by Biscayne Bay and a stone wall

Item No.: 97000795 NRIS (National Register Information System)

Subject: EVENT
Subject: ARCHITECTURE/ENGINEERING
Subject: ARCHITECTURE
Subject: ENTERTAINMENT/RECREATION
Subject: SOCIAL HISTORY
Subject: MODERN MOVEMENT
Subject: DISTRICT
Subject: 1925-1949

Keywords: August Geiger Film; 1937; 1945

Park name: Biscayne National Park
Place: FLORIDA — Miami-Dade County — Biscayne National Park vicinity
Park code: BISC

Record Number: 402772
Record Owner: National Register of Historic Places





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URL: <http://pdthost.focus.nps.gov/>
Link will open in a new browser win

Publisher: National Park Service

Published: 08/01/1997

Access: Public access

Restrictions: All Rights Reserved

Format/Size: Physical Document with text plot

Language: e.g.: English

Note: NW section of Boca Chita Key, to

Item No.: 97000795 NRIS (National Regis)

Subject: EVENT

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Subject: ARCHITECTURE

Subject: ENTERTAINMENT/RECREATI

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NPS Focus Redesign

- 2011 - De-coupled current functionality into two systems
 - 1) NPS Focus Digital Library = New spatially-enabled digital asset repository with enhanced functionality
 - 2) NPSearch = New federated search
Replaces NPS Focus Research Station



Cape Hatteras
National Seashore





North Dome,
Yosemite National
Park

NPS Focus Digital Library

- Expanded digital asset formats
- Spatial and text querying for assets
- Drag-and-drop georeferencing
- Support for embedded metadata
- Batch metadata editing and upload
- Simultaneously view/edit assets, metadata and map/imagery
- Share using web services/ Google Earth
- Restrict record to NPS/park/person





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Name	Roles	Submitter	SubmissionDateTime
6th New York Ca	guests,users	administrator	Mon Nov 8 14:52:49
6th New York Ca	guests,users	administrator	Mon Nov 1 16:40:37
FTCOLLINS_2008	guests,users	christina_mcdoni	Thu Oct 28 15:22:38
FTCOLLINS_2008	guests,users	christina_mcdoni	Thu Oct 28 15:21:05
http://www.nps.g	guests,users	administrator	Thu Oct 28 14:34:41
GAME_UsersGuid	guests,users	administrator	Thu Oct 28 14:20:37
GAME_Developer	guests,users	administrator	Thu Oct 28 14:20:36
GAME_Administr	guests,users	administrator	Thu Oct 28 14:20:35
Silene_cardinalis	guests,users	administrator	Thu Oct 28 14:19:09
Tulips.jpg	guests,users	administrator	Thu Oct 28 14:17:05
Chrysanthemum	guests,users	administrator	Thu Oct 28 14:17:05
Jellyfish.jpg	guests,users	administrator	Thu Oct 28 14:14:33
Tulips.jpg	guests,users	administrator	Thu Oct 28 14:14:33
...

Area of Interest Map Overview Map

External viewer needed. Open...

National Register of Historic Places

<http://npsfocus.game.nps.gov/>





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Search Entire World

Name	Roles	Submitter	SubmissionDateTime
6th New York Ca	guests,users	administrator	Mon Nov 1 16:40:37
FTCOLLINS_2008	guests,users	christina_mcdon	Thu Oct 28 15:22:38
FTCOLLINS_2008	guests,users	christina_mcdon	Thu Oct 28 15:21:09
http://www.nps.g	guests,users	administrator	Thu Oct 28 14:34:41
GAME_UsersGuid	guests,users	administrator	Thu Oct 28 14:20:37
GAME_Developer	guests,users	administrator	Thu Oct 28 14:20:38
GAME_Administr	guests,users	administrator	TH
Silene_cardinalis	guests,users	administrator	TH
Tulips.jpg	guests,users	administrator	TH
Chrysanthemum	guests,users	administrator	TH
Jellyfish.jpg	guests,users	administrator	TH
Tulips.jpg	guests,users	administrator	TH
Desert.jpg	guests,users	administrator	W
Hut in rocks	guests,users	administrator	TU



Advanced Search [X]

Type of search: Match any of the following Match all of the following

Keyword: [+] [-]

Keyword
 Name
 Description
 Caption
 Asset ID
 Copyright
 Roles
 Category
 Collection Date
 Collector

a filter Only include geotagged assets
 that have tabular data Only include NON-geotagged assets
 that have continuous data Include geo- and non-geotagged assets

Order by: Sort: Ascending Descending

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External viewer needed. [Open...](#)



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66.586914 N 83.193359 W





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Rocky Mountain National

Name	Roles	Submitter	SubmissionDateTime
Hut in rocks	guests,users	administrator	Tue Oct 26 17:39:17
View from atop r	guests,users	administrator	Tue Oct 26 17:39:05
Side view of hut	guests,users	administrator	Tue Oct 26 17:38:56
View from windo	guests,users	administrator	Tue Oct 26 17:38:51
img_4748.jpg	guests,users	administrator	Tue Oct 26 17:38:45
img_4749.jpg	guests,users	administrator	Tue Oct 26 17:38:39
img_4750.jpg	guests,users	administrator	Tue Oct 26 17:38:32
img_4758.jpg	guests,users	administrator	Tue Oct 26 17:38:26
img_4759.jpg	guests,users	administrator	Tue Oct 26 17:38:01
img_4762.jpg	guests,users	administrator	Tue Oct 26 17:37:55
img_4764.jpg	guests,users	administrator	Tue Oct 26 17:37:50
img_4765.jpg	guests,users	administrator	Tue Oct 26 17:37:42
img_4766.jpg	guests,users	administrator	Tue Oct 26 17:37:36
img_4767.jpg	guests,users	administrator	Tue Oct 26 17:37:21

Area of Interest Map Overview Map



pg. 1/1



img_4762.jpg



40.335820 N 105.550976 W





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Home Upload Permissions Options Types Help Logout administrator Rocky Mountain National

Area of Interest Map Overview Map



Name	Keywords
Hut in rocks	North America, United States, USA, Nationa
View from atop r	North America, United States, USA, Nationa
Side view of hut	North America, United States, USA, Nationa
View from windo	North America, United States, USA, Nationa
img_4748.jpg	North America, United States, USA, Nationa
img_4749.jpg	North America, United States, USA, Nationa
img_4750.jpg	North America, United States, USA, Nationa
img_4758.jpg	North America, United States, USA, Nationa
img_4759.jpg	North America, United States, USA, Nationa
img_4762.jpg	North America, United States, USA, Nationa

pg. 1/1



img_4762.jpg



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Logout administrator Rocky Mountain National

Name	Keywords	PrimaryType	SubType	Roles	Submis
Hut in rocks	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
View from atop r	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
Side view of hut	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
View from windo	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4748.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4749.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4750.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4758.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4759.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4762.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4764.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4765.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4766.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4767.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4771.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4777.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4778.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4782.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4783.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4786.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4789.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4790.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4796.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4798.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct
img_4799.jpg	North America, United States, USA, Nationa	image	jpeg	guests,users	Tue Oct

Area of Interest Map Overview Map

Aerial 40.323460 N

pg. 1/1



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Rocky Mountain National

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img_4762.jpg



Area of Interest Map Overview Map





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Rocky Mountain National

Edit Asset

Metadata (click on a value to edit it)

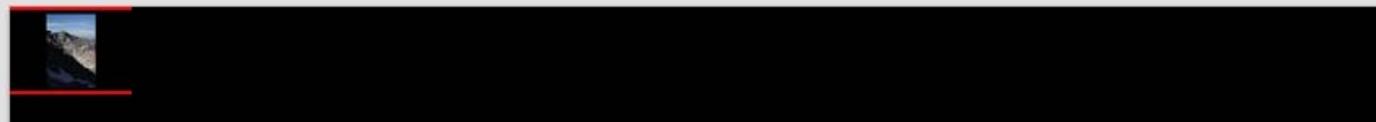
Item	Value
Name	img_4762.jpg
Description	<enter a value>
Caption	<enter a value>
Copyright	<enter a value>
Keywords	North America, United States, USA, National Park Service, NPS
Rights	Public
Placename	<enter a value>
Categories	<enter a value>
Collector	David Wright
Date/Time	Sun Aug 31 22:06:15 2008 UTC

Location (drag from Asset List and drop on map to geotag)



Aerial 40.285278 N 105.513468 W

Asset List



Details Thumbnails

Submit Apply Close Email

img_4762.jpg

Aerial

40.338738 N 105.542815 W



NPSearch Federated Search

- Discovery tool for NPS digital resources
- Single search portal
- Search across multiple NPS systems
- Faceted searching
- A mile wide, an inch deep
- Simple “google-like” search
- Advanced search available



Big Hole National
Battlefield





Sequoia National
Park

NPSearch Status

- Alpha release available at <http://npsearch.nps.gov>
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 - NPS Focus
 - NPS Voyager
 - NPS.gov
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Last Updated: 10/05/2010

EXPERIENCE YOUR AMERICA™

<http://npsearch.nps.gov/>





National Park Service

National Park Service
U.S. Department of the Interior



Preferences
Advanced

Result Type

1-50 of about 2,880 results



Any Result Type

Webpage

Search Results

Site

Any Site

www.nps.gov

focus_focus/default

www.doi.gov/ocd/2...

www.doi.gov/museum

Author

Any Author

Nrhe

Office Of The Sec...

Modified Date

Any Modified Date

Past Month

Past Six Months

Past Year

Earlier

- [Title: Umpaqua River **Light House** \[bdc3:\]](#)
Note: SW of Winchester Bay off U.S. 101 ...
Date: 1/2/2011
- [Title: Office Building and U.S. **Light-House** Depot Complex \[bdc3:\]](#)
Keyword: Mullett;Alfred B.;1840;1901 ...
Date: 1/2/2011
- [Inventory of Historic **Light** Stations--New Jersey Lighthouses--Ship John Shoal **Light** \[nps.gov\]](#)
Back to Inventory - List of New ... of the **Light-House** Board stated "It ...
Date: 3/9/2011
- [Boston Harbor Islands National Recreation Area - Little Brewster Island \(U.S. National Park Service\) \[nps.gov\]](#)
The Boston **Light** tower is open for ... **Light House** Island ...
- [Inventory of Historic **Light** Stations--Michigan--Rock Harbor **Light** \[nps.gov\]](#)
Tower Height: 50/Height of Focal Plane ... of Listing: ROCK HARBOR **LIGHT HOUSE** ...
Date: 3/9/2011
- [Whitman Mission National Historic Site - Appearance of the Mission **House** in the **Light** of Historical Evidence \(U.S. National Park Service\) \[nps.gov\]](#)
From: "A Report on the Second Season's ... to give a **light** grey texture to the ...
- [Inventory of Historic **Light** Stations--Michigan--Point Iroquois **Light** \[nps.gov\]](#)
BARNs, CHICKEN **HOUSE**, WELL, BOATHOUSE, WELL **HOUSE**, OIL **HOUSE** ...
Date: 3/9/2011
- [Channel Islands National Park - Anacapa Island **Light** Station \(U.S. National Park Service\) \[nps.gov\]](#)
The thick fog and strong currents of ... metal tower with a **light** atop it was ...
- [Inventory of Historic **Light** Stations--Massachusetts--Ned's Point **Light** \[nps.gov\]](#)
Open to the Public? YES (Go ... KEEPER'S **HOUSE** RELOCATED TO WING'S ...
Date: 3/9/2011
- [Inventory of Historic **Light** Stations--Massachusetts--Chatham **Light** \[nps.gov\]](#)
Location: W. SIDE CHATHAM HARBOR / SE ... CHATHAM **LIGHT** STATION (LIGHTHOUSES OF ...
Date: 3/9/2011





National Park Service



light house



Preferences
Advanced

Site

Any Site

focus_focus/default

L 00000000%252d0000...

Modified Date

Any Modified Date

Past Six Months

1-19 of 19 results



Search Results

- Title: [Umpaqua River Light House \[bdc3:\]](#)
Note: SW of Winchester Bay off U.S. 101 ...
Date: 1/2/2011
- Title: [Office Building and U.S. Light-House Depot Complex \[bdc3:\]](#)
Keyword: Mullett;Alfred B.;1840;1901 ...
Date: 1/2/2011
- Title: [Kilauea Point Light Station \[bdc3:\]](#)
US Coast Guard;US Light House Board;Hegenberger;Lt ...
Date: 1/2/2011
- Title: [Block Island South East Light \[bdc3:\]](#)
Keyword: US Light House Board;Tynan;T.H.;1874 ...
Date: 1/2/2011
- Title: [Block Island South East Light \[bdc3:\]](#)
Keyword: US Light House Board;Tynan;T.H.;1874 ...
Date: 1/2/2011
- Title: [Light, Jacob, House \[bdc3:\]](#)
RecordOwner: National Register of Historic Places ...
Date: 1/2/2011
- Title: [Marcus Hook Range Rear Light \[bdc3:\]](#)
Note: Light House Rd. ... RecordOwner: National Register of Historic Places ...
Date: 1/2/2011
- Title: [Liston Ranger Rear Light Station \[bdc3:\]](#)
Keyword: Light House Establishment;1877;1906 ... Note: W of Port Penn on DE 2 ...
Date: 1/2/2011
- Title: [Big Bay Point Light Station \[bdc3:\]](#)
11th District Light-House Engineer;US ...
Date: 1/2/2011
- Title: [Baker Island Light, Lightkeeper's House \[bdc3:\]](#)
U.S. National Park Service. HABS-HAER Division ...
Date: 1/2/2011
- Title: [APIS, Raspberry Island Light Station Boat House \[bdc3:\]](#)
Keyword: Boat House; Light Station; Historic





NPS Focus Future

- New site released soon
- Embedded metadata support
 - Tools for embedded metadata
 - GPS Photolink



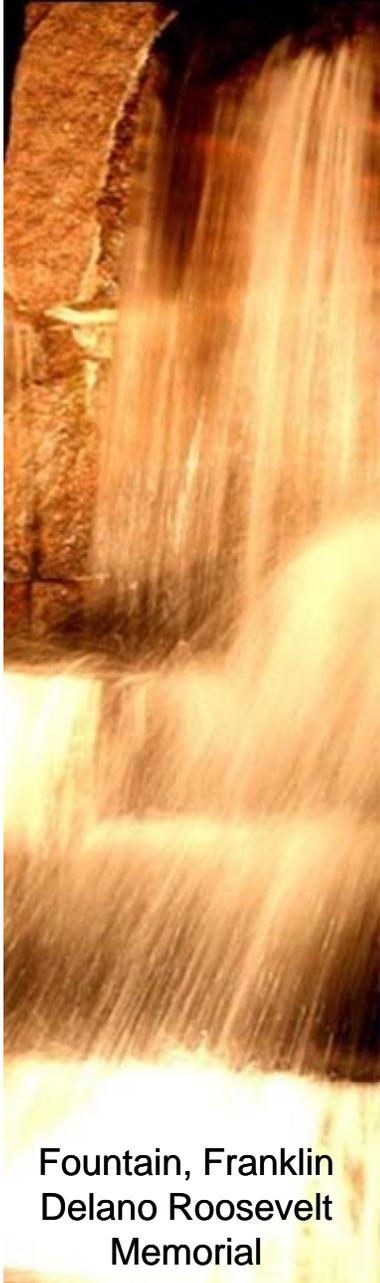
Cape Hatteras
National Seashore





NPSearch Future

- Additional search targets:
 - NRInfo Reference Service
 - e-TIC
 - SharePoint 2010/InsideNPS
- Ranked search results
- Improving faceted navigation
- Additional search facets



Fountain, Franklin
Delano Roosevelt
Memorial





Thank You!

- Questions?

Contact the NPS Focus Team

NPS_Focus@nps.gov



Todd M. Edgar
NRPC Web Manager
National Park Service
Natural Resource Program Center



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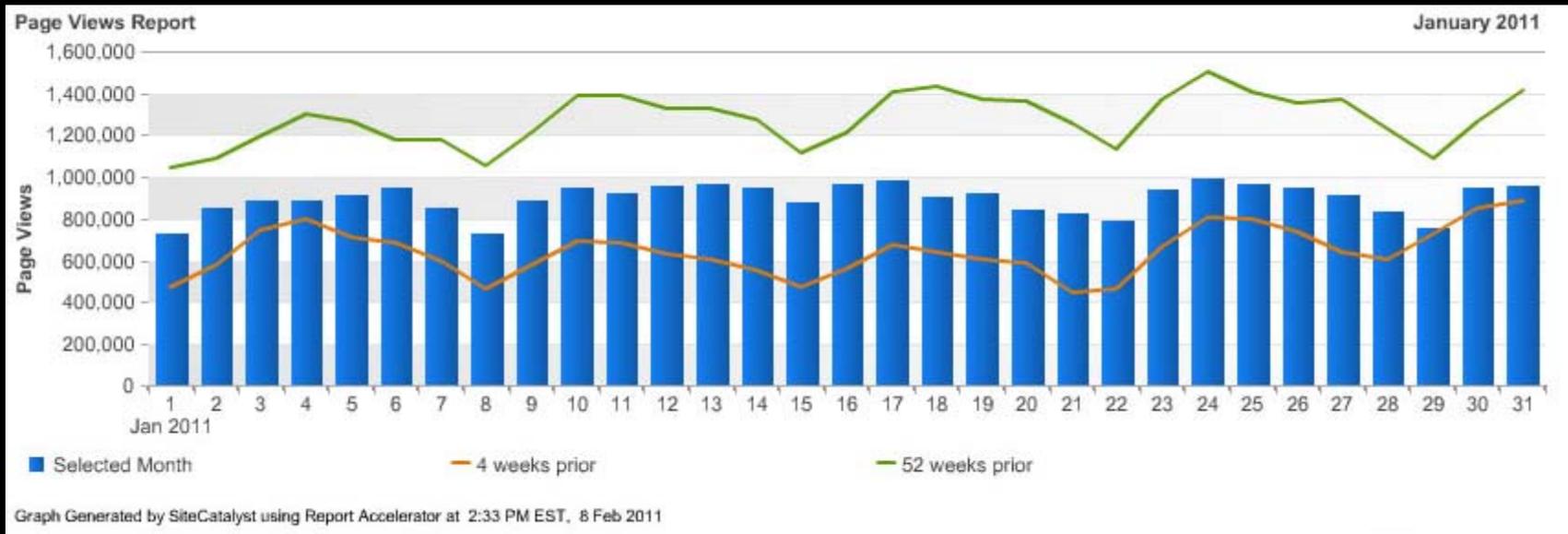
NATURAL RESOURCE STEWARDSHIP & SCIENCE

**NATURAL RESOURCE
STEWARDSHIP & SCIENCE
WEB UPDATE**

WEB UPDATE

- **Website statistics**
- **Website redesign**
- **Website plan**
- **Content Management System**
- **I&M Networks**

NPS.GOV STATS:



27,837,789 page views—down 25% from last year's 39,119,268 page views for the same month.

SITE COMPARISON:

<u>Page</u>	<u>Page Views</u>
NPS.gov	27,837,789
Yellowstone National Park	2,633,527
Yosemite National Park	1,733,738
nature.nps.gov	1,646,697
Glacier National Park	785,696
Acadia National Park	233,439
Cuyahoga Valley National Park	69,067
Saint Croix Intl. Historic Site	3,172

SITE COMPARISON:

<u>Page</u>	<u>Page Views</u>
NPS.gov	27,837,789
Yellowstone National Park	2,633,527
Yosemite National Park	1,733,738
nature.nps.gov	1,720,384
Glacier National Park	785,696
Acadia National Park	233,439
Cuyahoga Valley National Park	69,067
Saint Croix Intl. Historic Site	3,172

SITE COMPARISON:

<u>Page</u>	<u>Page Views</u>
NPS.gov	27,837,789
Yellowstone National Park	2,633,527
nature.nps.gov	2,045,719
Yosemite National Park	1,733,738
Glacier National Park	785,696
Acadia National Park	233,439
Cuyahoga Valley National Park	69,067
Saint Croix Intl. Historic Site	3,172

NRSS WEBSITES TOP 7:

<u>Rank</u>	<u>Page</u>	<u>Page Views</u>
1	webcams/.../grsmpkcam	157,288
18	nature.nps.gov/	25,866
24	/stats/viewreport.cfm	18,951
26	/geology/parks/hosp/	14,578
?	NRInfo/	11,219
35	/air/lightscapes/howdark	6,920
36	/parkscience/	6,478

REDESIGN:

850 pixels

Header
& Footer
Issues

National Park Service
Explore Nature

National Park Service
U.S. Department of the Interior

Water Resources
It is the mighty river that roars forcefully; the babbling brook that murmurs its lullaby; the aquatic life below the surface that we strive to protect, preserve and manage; because without it life could not endure.
- Laura L. Pascaus

Water Resources Webcams »
A sampling of National Park water-oriented webcams
More »

USGS Water Quality Partnership »
Since 1998, the National Park Service (NPS) and the U.S. Geological Survey (USGS) have collaborated to study water quality concerns in National Parks. More »

Wild & Scenic Rivers »
The National Park Service is responsible for 38 rivers under the Wild and Scenic Rivers Act flowing more than 2,800 miles throughout the United States. More »

Elwha River Update

The beginning of the Elwha River restoration project.
(Photo by NPS)

A contract to remove Glines Canyon and Elwha Dams was awarded in August to Barnard Construction of Bozeman, Montana for a total of \$26.9 million. Removal of the dams will begin in September 2011. Significant milestones continue to be reached as we count down the months to the largest dam removal in U.S. history. more »

Implementing the National Park Service Ocean Park Stewardship Action Plan

The National Park Service is entrusted with managing 74 ocean and Great Lakes parks across 26 states. Established for their beauty and national significance, these parks conserve over 6,800 miles of coast and 3.1 million acres of ocean and Great Lakes waters, including coral reefs, kelp forests, glaciers, estuaries, beaches, wetlands, historic forts, and shipwrecks. more »

National Parklands of the Colorado River: Working Towards More Coordinated Management

The National Park Service administers nine parks, recreation areas and monuments along the Colorado River and its key tributaries (Green, Yampa, and Gunnison Rivers. more »

HEADLINES
Lionfish Found in Two National Parks Indo-Pacific lionfish have been

Explore Nature
Air
Biology
Climate Change
Environmental Quality
Geology
Inventory & Monitoring
National Natural Landmarks
Natural Sounds & Night Sky
Social Science
Water

Explore Water:
Fisheries
Hydrology
Information Management
Laws & Regulations
Ocean & Coastal Resources
Planning
Policies & Guidance
Publications
Recreational Opportunities
Water Information & Data
Natural Resource
Condition Assessments
Water Quality
Water Rights
Wetlands
Wild & Scenic River
Who We Are
USGS Partnership

About Us
Contact Us
Search

Boxy

Inflexible
Navigation

REDESIGN:

960 pixels

NPS.gov
Elements

The screenshot shows the National Park Service website redesign. At the top, the text "National Park Service" is on the left and "National Park Service U.S. Department of the Interior" with the logo is on the right. Below this is a large banner image of natural rock formations with the text "National Natural Landmarks" and "Are there any near you? Find out now...". A horizontal navigation bar contains links: "Find a Park", "Discover History", "Explore Nature" (highlighted), "Working with Communities", "Get Involved", "Teachers", "Kids", and "About Us". Below the navigation bar is a section titled "EXPLORE NATURE" with a breadcrumb "NPS > Explore Nature". On the left is a vertical sidebar with a list of categories: Air Resources, Biological Resources, Climate Change, Environmental Quality, Geologic Resources, Help Your Parks, Inventory & Monitoring, National Natural Landmarks, Natural Sounds & Night Skies, Partnerships, Photos & Multimedia, Publications, Science & Research, Social Science, and Water Resources. The main content area features a "Feature: Oil Spill Response Science" with a photo of a "Clean-up crew member" and a "Hot Topics" list including Air Quality Web Cameras, Coral Reefs in National Parks, Invasive Species, Natural Lightscapes Overview, Natural Resource Challenge, Planning, Environment, & Public Comment (PEPC), and Preserving Biodiversity. At the bottom, there is a section titled "Science in Your National Parks" with introductory text.

Tiered
Navigation

Flexible
Design

REDESIGN:

National Park Service

National Park Service
U.S. Department of the Interior


Find a Park
Discover History
Explore Nature
Working with Communities
Get Involved
Teachers
Kids
About Us

NATIONAL NATURAL LANDMARKS PROGRAM

[NNL Directory](#)

[Frequently Asked Questions](#)

[Photo Contest](#)

[Current Winners](#)

[Previous Winners](#)

[Contact Information](#)

NPS » [Explore Nature](#) » National Natural Landmarks Program

Previous Photo Contest Winners

Click on thumbnails for the full size image. For official descriptions of these NNLs, please visit the [NNL Directory](#). Be sure to view the current winners from the [most recent contest](#).

2009 Winners



1st Place
Burney Falls, California
Photo by **Jim Shoemaker**
of Oak Park, CA

Burney Falls, designated a NNL in 1984, contains some of the best examples in the western United States of a river drainage regulated by stratigraphically-controlled springs, and of a waterfall formed by undercutting of horizontal rock layers. This landmark is located within McArthur-Burney Falls Memorial State Park.



2nd Place
Monument Rocks Natural Area, Kansas
Photo by **Rob Graham**
of Great Bend, KS

Monument Rocks Natural Area was designated a NNL in 1968. This site includes pinnacles, small buttes, chalk spires of the Niobrara formation, and erosional remnants of sediments deposited in the Kansas Sea during the Cretaceous Period.



3rd Place
Russell Lakes, Colorado
Photo by **Sayre Hutchison**
of Lakewood, CO

Russell Lakes, designated a NNL in 1975, represents one of the few remaining large, high-altitude, alkaline marshes in the southern Rocky Mountains. This landmark includes the most extensive bulrush marsh in Colorado, supports large numbers of flora and fauna and is an outstanding resting and breeding site for waterfowl.

-  [Explore Nature Home](#)
-  [About Natural Resources](#)
-  [Contact Natural Resources](#)
-  [Search](#)

REDESIGN:

NATIONAL NATURAL LANDMARKS PROGRAM

[NNL Directory](#)

[Frequently Asked Questions](#)

[Photo Contest](#)

[Current Winners](#)

[Previous Winners](#)

[Contact Information](#)

nature.nps.gov:

National Park Service National Park Service
U.S. Department of the Interior 

National Natural Landmarks

Are there any near you?
Find out now...



[Find a Park](#) [Discover History](#) [Explore Nature](#) [Working with Communities](#) [Get Involved](#) [Teachers](#) [Kids](#) [About Us](#)

EXPLORE NATURE NPS » Explore Nature

- [Air Resources](#)
- [Biological Resources](#)
- [Climate Change](#)
- [Environmental Quality](#)
- [Geologic Resources](#)
- [Help Your Parks](#)
- [Inventory & Monitoring](#)
- [National Natural Landmarks](#)
- [Natural Sounds & Night Skies](#)
- [Partnerships](#)
- [Photos & Multimedia](#)
- [Publications](#)

Feature: Oil Spill Response Science



Clean-up crew member.

For over 100 days, oil spilled into the Gulf of Mexico. Even with the well capped, the impacts of the oil and the restoration of parks affected by the spill will span years, if not decades. These videos explain how science helps the National Park Service protect park resources. [Learn more »](#)

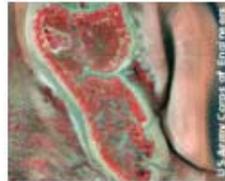
Hot Topics

- [Air Quality Web Cameras](#)
- [Coral Reefs in National Parks](#)
- [Invasive Species](#)
- [Natural Lightscares Overview](#)
- [Natural Resource Challenge](#)
- [Planning, Environment, & Public Comment \(PEPC\)](#)
- [Preserving Biodiversity](#)

nature.nps.gov:

Other Resources

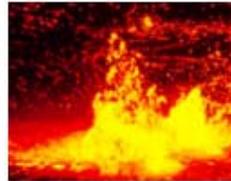
Park Science



Integrating Research & Resource Management

[Learn more »](#)

Interactive



Educational series on natural wonders

[Learn more »](#)

There & Back Again



Migratory species in national parks

[Learn more »](#)

Photos & Multimedia



Find photos, videos, podcasts, and more

[Learn more »](#)

Last Updated: March 02, 2011



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nature.nps.gov:

National Park Service National Park Service
U.S. Department of the Interior 

[Find a Park](#) [Discover History](#) [Explore Nature](#) [Working with Communities](#) [Get Involved](#) [Teachers](#) [Kids](#) [About Us](#)

NATIONAL NATURAL LANDMARKS PROGRAM NPS » [Explore Nature](#) » National Natural Landmarks Program

[NNL Directory](#)

[Frequently Asked Questions](#)

[Photo Contest](#)

[Contact Information](#)

[Explore Nature Home](#)

[About Natural Resources](#)

[Contact Natural Resources](#)

[Search](#)



Volo Bog Nature Preserve National Natural Landmark, IL. Photo © Rodrigo Roesch.

National Natural Landmarks Program

The National Natural Landmarks (NNL) Program recognizes and encourages the conservation of sites that contain outstanding biological and geological resources, regardless of landownership type. It is the only natural areas program of national scope that recognizes the best examples of biological and geological features in both public and private ownership. NNLs are owned by a variety of land stewards, and participation in the program is voluntary.

National Natural Landmarks are selected for their outstanding condition, illustrative value, rarity, diversity, and value to science and education. Sites are designated by the Secretary of the Interior, with landowner concurrence, and to-date, nearly 600 landmarks have received the NNL designation within the United States, American Samoa, Guam, Puerto Rico, and the U.S. Virgin Islands.

National Natural Landmarks Program

"Encourage and support the voluntary conservation of sites that illustrate the nation's geological and biological history, and to strengthen the public's appreciation of America's natural heritage."

WEB UPDATE

WEB PLAN:

- Redesign
- Baseline
- Evaluate
- Adjust

The screenshot shows the National Park Service website. At the top, it says "National Park Service" and "National Park Service U.S. Department of the Interior" with the NPS logo. The main heading is "National Natural Landmarks" with the subtext "Are there any near you? Find out now...". Below this is a large photograph of natural rock formations. A navigation bar includes links for "Find a Park", "Discover History", "Explore Nature", "Working with Communities", "Get Involved", "Teachers", "Kids", and "About Us". The "Explore Nature" section is active, showing a sidebar with categories like "Air Resources", "Biological Resources", "Climate Change", "Environmental Quality", "Geologic Resources", "Help Your Parks", "Inventory & Monitoring", "National Natural Landmarks", "Natural Sounds & Night Skies", "Partnerships", "Photos & Multimedia", "Publications", "Science & Research", "Social Science", and "Water Resources". The main content area features a "Feature: Oil Spill Response Science" with a photo of a "Clean-up crew member" and text explaining the impact of oil spills and the role of science. A "Hot Topics" box lists items like "Air Quality Web Cameras", "Coral Reefs in National Parks", "Invasive Species", "Natural Lightscares Overview", "Natural Resource Challenge", "Planning, Environment, & Public Comment (PEPC)", and "Preserving Biodiversity". At the bottom, a section titled "Science in Your National Parks" discusses the challenge set forth by Congress in 1999 and integrated approaches for responding to environmental pressures.

NPS CMS:

- **Not yet available**
- **Content / Navigation evaluation**
- **Some content won't migrate**
- **Similar constraints**



I&M NETWORKS:

- **Good to align with new design**
- **Coordinate with Margaret & Fagan**
- **Take opportunity to evaluate**







EXPERIENCE YOUR AMERICA™



Geoff Sanders

Data Manager

- National Capital Region Network

Making Crosstab Queries More Useful

Geoff Sanders, Data Manager
National Capital Region Network

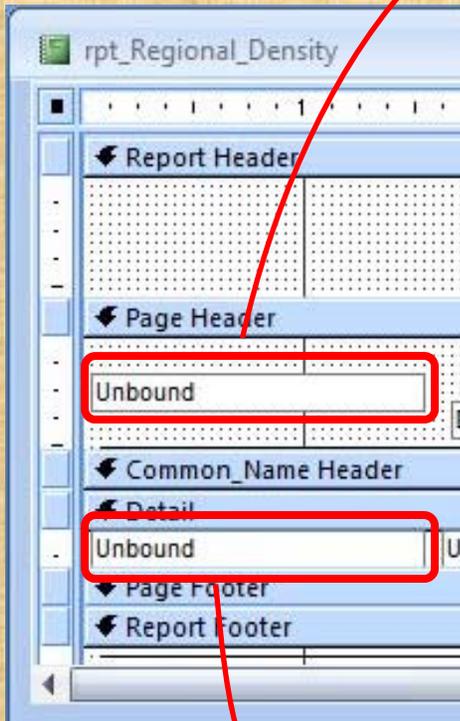
2011 George Wright Society Meeting
New Orleans, LA



Crosstab

Common_Name	2007	2007 SE	2008	2008 SE	2009	2009 SE	2010	2010 SE
Acadian Flycatcher	0.785	0.144	0.735	0.119	0.397	0.067	1.018	0.199
American Crow	0.098	0.018	0.103	0.017	0.128	0.023	0.156	0.029
American Goldfinch	0.623	0.12	0.554	0.09	0.447	0.088	1.071	0.197
American Kestrel			0.002					
American Redstart	0.053	0.033	0.029	0.017	0.015	0.008	0.055	0.028
American Robin	0.376	0.092	0.452	0.086	0.488	0.088	1.128	0.205
Bald Eagle	0.002	0.002	0.005	0.006				
Baltimore Oriole	0.113	0.037	0.038	0.014	0.005	0.005	0.106	0.035
Barn Swallow	0.017	0.011	0.009	0.01	0.044	0.023		
Barred Owl			0.018	0.015	0.018	0.014	0.009	0.005
Belted Kingfisher	0.01	0.012	0.005	0.005	0.004	0.003	0.016	0.01
Black Vulture			0.374	0.332			0.04	0.03
Black-and-white Warb	0.043	0.016	0.077	0.03	0.023	0.01	0.067	0.028
Black-billed Cuckoo							0.005	0.008
Blackpoll Warbler	0.037	0.025	0.081	0.034	0.002		0.191	0.088
Black-throated Blue W	0.024	0.017					0.02	0.014
Black-throated Green	0.007	0.008						
Blue Grosbeak	0.006	0.01						
Blue Jay	0.276	0.06	0.239	0.038	0.185	0.031	0.335	0.061
Blue-gray Gnatcatcher	0.71	0.14	1.124	0.176	0.607	0.102	2.146	0.372
Blue-headed Vireo			0.002					
Brown Thrasher	0.014	0.013	0.01	0.007	0.009	0.005	0.028	0.016
Brown-headed Cowbi	0.385	0.07	0.55	0.087	0.044	0.011	0.415	0.086
Canada Goose	0.039	0.021	0.167	0.074	0.049	0.025	0.04	0.013
Cape May Warbler	0.002							
Carolina Wren	0.467	0.081	0.416	0.061	0.443	0.072	0.411	0.086
Cedar Waxwing	0.138	0.04	0.289	0.149	0.148	0.045	0.182	0.059

Report



```
Private Sub Report_Open(Cancel As Integer)

Private Sub Detail_Format(Cancel As Integer, FormatCount As Integer)
' Put values in text boxes and hide unused text boxes.

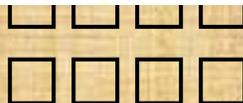
Dim intX As Integer
' Verify that you are not at end of recordset.
If Not rstReport.EOF Then
' If FormatCount is 1, put values from recordset into text boxes
' in "Detail" section.
If Me.FormatCount = 1 Then
For intX = 1 To intColumnCount
' Convert Null values to 0.
Me("txt_Col" + Format(intX)) = xtabCnnulls(rstReport(intX - 1))
Next intX

' Hide unused text boxes in the "Detail" section.
For intX = intColumnCount + 2 To conTotalColumns
Me("txt_Col" + Format(intX)).Visible = False
Next intX

' Move to next record in recordset.
rstReport.MoveNext

End If
End If
DoCmd.Hourglass (False)
End Sub

End Sub
```



Annual Regional Species Density

Comm	2007		2008		2009		2010	
	Density	SE	Density	SE	Density	SE	Density	SE
Acadian Flycatcher	0.785	0.144	0.735	0.119	0.397	0.067	1.018	0.199
American Crow	0.098	0.018	0.103	0.017	0.128	0.023	0.156	0.029
American Goldfinch	0.623	0.12	0.554	0.09	0.447	0.088	1.071	0.197
American Kestrel	-	-	0.002	-	-	-	-	-
American Redstart	0.053	0.033	0.029	0.017	0.015	0.008	0.055	0.028
American Robin	0.376	0.092	0.452	0.086	0.488	0.088	1.128	0.205
Bald Eagle	0.002	0.002	0.005	0.006	-	-	-	-
Baltimore Oriole	0.113	0.037	0.038	0.014	0.005	0.005	0.106	0.035
Barn Swallow	0.017	0.011	0.009	0.01	0.044	0.023	-	-
Barred Owl	-	-	0.018	0.015	0.018	0.014	0.009	0.005
Belted Kingfisher	0.01	0.012	0.005	0.005	0.004	0.003	0.016	0.01
Black Vulture	-	-	0.374	0.332	-	-	0.04	0.03
Black-and-white Warbler	0.043	0.016	0.077	0.03	0.023	0.01	0.067	0.028
Black-billed Cuckoo	-	-	-	-	-	-	0.005	0.008
Blackpoll Warbler	0.037	0.025	0.081	0.034	0.002	-	0.191	0.088
Black-throated Blue Warbler	0.024	0.017	-	-	-	-	0.02	0.014
Black-throated Green Warbler	0.007	0.008	-	-	-	-	-	-

Form

Form Header										
Pin_Number	4/18/2006	5/22/2007	12/11/2007	5/15/2008	11/17/2008	4/15/2009	lbl_Date8	lbl_Date9	lbl_Date10	lbl_Date11
Detail										
Pin_Num1	4/18/2	5/22/	12/11/	5/15/2	11/17/	4/15/2	Unbol	Unbol	Unbol	Unbol
Form Footer										

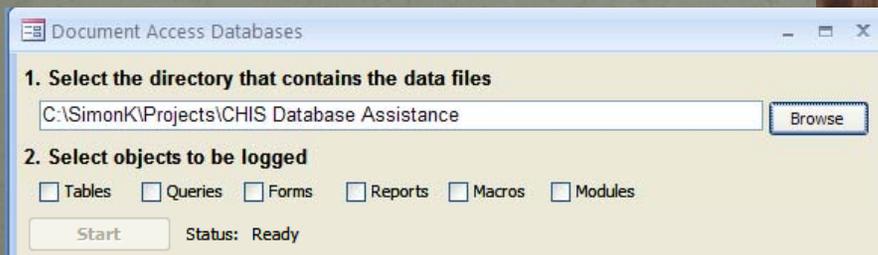
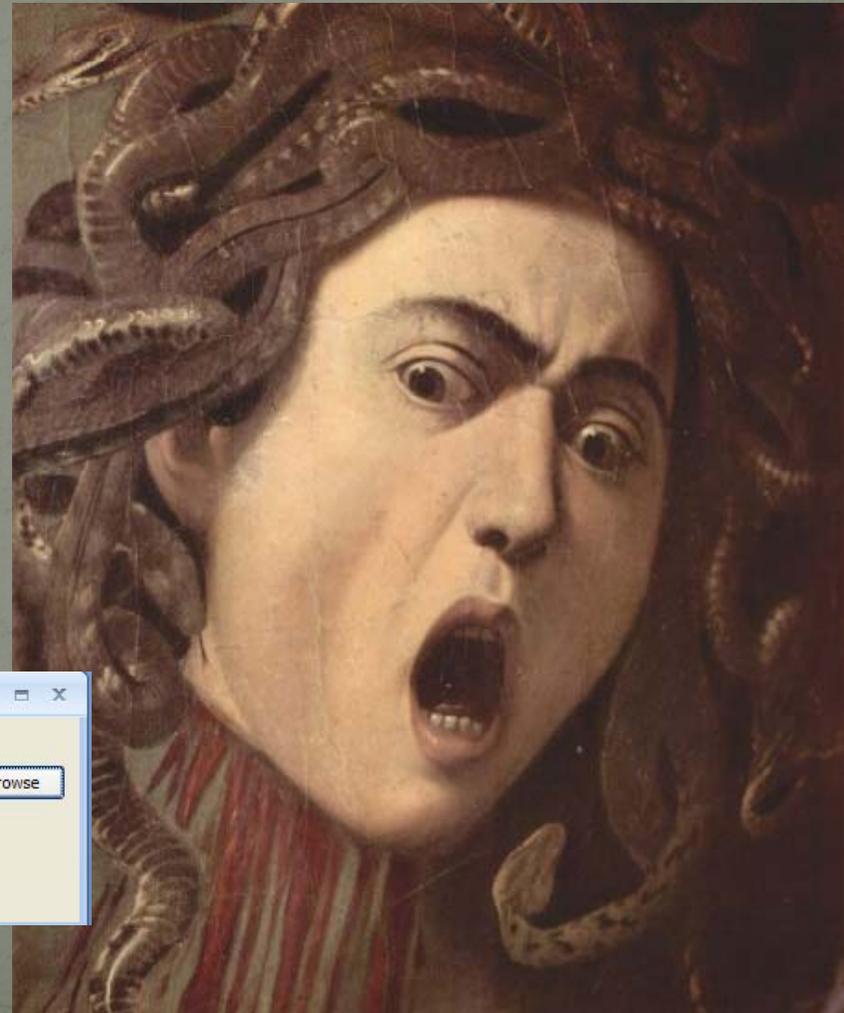
Pin_Number	4/18/2006	5/23/2007	12/11/2007	5/15/2008	11/17/2008	4/15/2009	11/3/2009	3/30/2010	11/3/2010
A1	16.2	18.2	18.5	20.1	22	20.3	19.5	21	21.5
A2	15.8	18.2	18	19.7	21.4	20.4	20.1	19.5	21.8
A3	16.4	16.9	17.9	19	20.4	21.5	20	18.8	21.5
A4	16.7	19.1	18.3	19.6	20.5	20	20.9	18.7	20.5
A5	16.5	18.9	20	20.5	20.5	19.8	21.6	19.3	21.4
A6	16.1	19.5	20.8	21	20	19.4	17.4	20.4	21.2
A7	17	18.8	20.1	21.2	20	19.6	18	21.4	22.3
A8	15.5	19	19.5	22	20.2	21.9	17.6	22.2	21.9
A9	17.5	18	17.8	0	20.7	21.6	21.8	22.7	20.7
B1	17.4	18.2	18.5	18.5	20.1	18.4	22	18.6	20.1
B2	17.7	17.9	17.9	19.2	19.6	19.5	23.1	19.3	20.2
B3	17.1	20.6	19.8	19.4	20.6	20.3	23.5	19.8	20.4
B4	17.2	21.1	20.9	20	20.9	21	22.6	19.9	21.2
B5	17.7	18.8	19.3	19.3	20.8	21	21.6	19.8	21.7
B6	18.2	19	18.7	19	20.5	20.5	22.2	19.8	21.1
B7	18	18.4	17.8	18.4	20.2	19.3	21.9	20.1	22.2
B8	17.8	18.4	18	19.3	18.6	19.6	22.6	19.4	21.1
B9	19.8	18	18.5	19.3	18.9	18.6	23.1	19.1	19.3

Tips for Battling Epic Databases

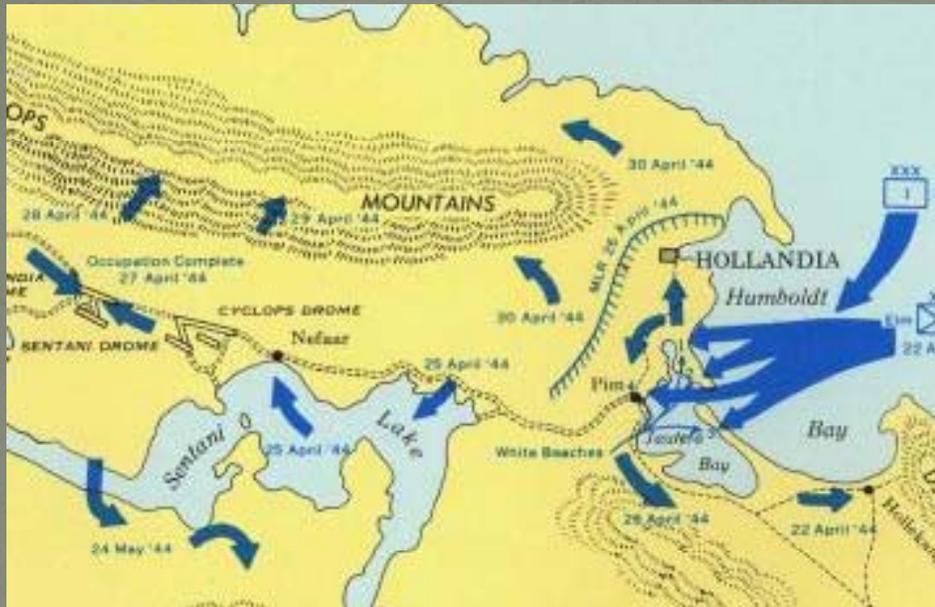
Lessons Learned from Working with Channel Islands'
Resource Management Database

1. Don't Look Directly at a Medusa

- 12 files
- 1,050 tables
- 10,102 fields
- 238 forms
- 2,043 queries
- 166 reports



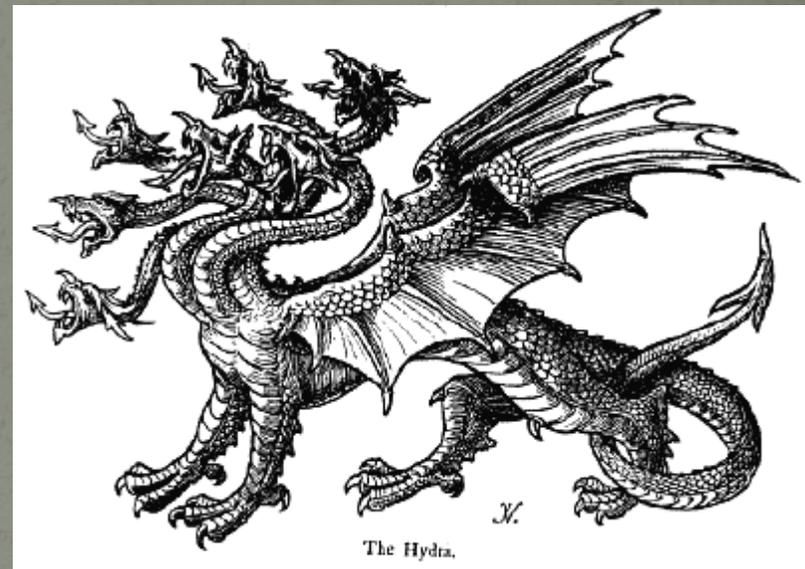
2. Wear Down the Enemy



- Ignore Irrelevant Tables (1/3)
 - zero records
 - linked copies of tables
- Ignore Temporary/Staging Tables

3. Divide and Conquer

- Focus on one Program at a Time
 - Kelp Forests
- Split into Manageable Deliverables
 - Database Structure
 - Data Entry Forms
 - QA Tools
 - Search/Edit Tools
 - Reporting
 - Export
 - Documentation



4. Organize the Troops



- Selected the NRDT as the target structure and moved information into base tables

5. Find the Weak Spots

- Table
 - Make enough fields required to make a minimally useful record
- NO zero-length strings!!!
- Data type mismatches
- Out-of-range values
- Tailor lookups to needs



6. Call in Reinforcements



- Involve the experts and the documentation
 - Kelp Forest Monitoring Workbook
 - David Kushner, Kelly Moore
 - Digital copies of datasheets