myScience: Citizen Science Project
Discovery & Public Engagement Web Application

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Outline

• Background
• Project
• Progress Report
• Future Work
Background

• Barbara Poore Spreadsheet
• CDI Citizen Science Working Group (CSWG)
  – Citizen Science Project Inventory
• Core Science Analytics & Synthesis (CSAS)
  – Citizen Science Cyber-infrastructure
Citizen Science Project Inventory

- Project metadata
- Find speakers, insight, collaboration
- Share with other USGS Offices
- Respond to RFIs
- Provide content to posters, handouts
- Internal and external value

People use inventory content for products, RFIs
Projects = Cooperative Partnerships

Citizen Science Cyber-infrastructure Research

- How are citizen science projects conducted at USGS now?
- What are the cyber-infrastructure requirements of USGS scientists to engage the public in research?
- [https://my.usgs.gov/confluence/display/aesir/myScience](https://my.usgs.gov/confluence/display/aesir/myScience)

Sample point (interview)
USGS Citizen Science
Cyber-infrastructure Requirements

Policy
- DOI and Federal policies need to be addressed or created

Tech Support
- Data Storage and Access
- ScienceBase
- Choice of platforms
- Choice of methods
- Open ID access

Public Engagement
- Project discovery
- Services
- Social support
- Intra-agency communication (address silos)

Professional Development
- PI Toolkit
- Intentional Design
- Perception & Proven results
myScience: Citizen Science Project
Discovery & Public Engagement
Web Application

• How may the public discover opportunities for participation in USGS scientific research?
• What citizen science projects with USGS involvement are currently active?
• How may project leads increase public engagement in and awareness of their citizen science projects?
myScience: Closes the loop

Public participants

USGS Scientists

Citizen Science Project Inventory

myScience
myScience: Content & Audience

• 22 projects in the original inventory
  – At least one contact within USGS

• Citizen Science Internal Audience
  – USGS scientists who are engaging or who would like to engage the public in their research
  – The person who registers a project may be different from the project lead because projects are highly collaborative

• Public Web Presence Audience
  – Any person who wants to find out how to become involved with a citizen science project in which the USGS has a role
myScience: Products

- Citizen Science Internal
- Public Web Presence
- Database
- Web Services
- Fact Sheet

Begin date: 6/10/13
Completion date: 9/30/13
Citizen Science Internal (USGS)

- Enter and edit project metadata
- No login required – uses Active Directory
- Easy creation of new projects
- Assign edit access to other users
- Internal project profile view
  - Basic + detailed information
    - Monitoring protocols, spatial extent, partners
- Community of practice
Citizen Science Internal Project Page

North American Amphibian Monitoring Program (NAAMP) Profile

Contacts

**Principal Investigator**

- Linda Weir
- Iweir@usgs.gov
- 301-497-5932
- 20708

**Contacts**

- Linda Carter
- Lcarter@waterconservation.com
- 512-927-3500
- 78754

**Basic Information**

- Project Name: North American Amphibian Monitor
- Begin Date: [ ]
- Website: [http://www.waterconservation.com](http://www.waterconservation.com)
- Facebook: [Ex: facebook.com/water_project](http://facebook.com/water_project)
- Twitter: [Ex: twitter.com/water_con](http://twitter.com/water_con)
Public Web Presence

- Featured Projects
- Quick Search
  - Key word
  - Location
  - Text entry
- Advanced search
- Project Detail Pages
Search Directory

All projects in the myScience directory are listed below the advanced search form. To narrow the list down, choose any number of criteria using the form and click the search button.

**Topic:** choose topic

**Location:** choose location

**Target Age Group:** choose target age

**Time Commitment:** choose time commitment

**Search by keyword:**

**Mission Area:** choose mission area

**Project Status:** choose status

**Skill Level:** choose skill level

**Project Type:** choose type

**Search by keyword:**

**reset**

**All Projects**

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Page 1 of 1, items 1 to 2 of 2.
### Project Details

**Alaska Volcano Observatory**

This program provides simple instructions on how to take a variety of observations about volcanic ash in Alaska: thickness measurements, measured-area sampling, time incremental sampling, bulk sampling. It gives people the choice to report what they feel able to do. It is not yet available online. These samples help USGS understand the composition, volume, and dispersal pattern of the ash. The area over which ash can fall is large, and ash-fall deposits can be ephemeral. Timely access is often difficult for us. Locals are ideally positioned to collect excellent samples. These instructions describe how to collect a sample of volcanic ash from a recent or ongoing volcanic eruption. We would like two types of samples if possible: (1) measured-area samples and (2) bulk ash samples. Detailed methods and an information sheet (datasheet) are provided below or as links within the text. (text from OSTP summary and website: http://www.avolcanobay.edu/ashfall/ashreport.php)

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<th>Target Audience</th>
<th>Project Contacts</th>
<th>Additional Resources</th>
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Facilitate Information Sharing

**Nature's Notebook**

Observe seasonal changes in plants and animals to improve our understanding of climate change impacts.

Changes in climate are affecting plant and animal activity across the nation. These modifications impact our economy, human health, natural resources and agriculture. Join us- help document how things are changing!

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**Citizen Science Central**

Nature's Notebook is a national plant and animal phenology observation program of the USA National Phenology Network.

**Notebook Projects:**
- Juniper Pollen Project

**Contexts**
- Citizen science, volunteer monitoring, participatory action research...
- This also supports educators of all ages where public participants are involved in scientific research.

**Keywords:**
- Topic: plant and animal phenology
- Audience: middle school through adult
- Location: USA
- Goals: collection of high-quality phenology data

**Collaborators:**
- USA National Phenology Network

**Contact:**
- Theresa Crimmins, Partnerships & Outreach Coordinator
  - 520-792-0481

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**CDI Webinar Series 2013**
Web services: Opens the loop

USGS Scientists

Citizen Science Project Inventory

myScience

Other Project Inventories
Future work

• Testing
• Proximity search
• Enhancements
• Continue collaboration with partners
  – Web service development
• Integration with ScienceBase
Questions?

• Contact
  – Sally Holl: sholl@usgs.gov
  – Megan Hines: mhines@usgs.gov

• Do you have a project for the inventory?
• Would you like to be a myScience tester?

...E-mail us!