

Science Action Club National Girl Collaborative Network Project



NATIONAL GIRLS COLLABORATIVE PROJECT



Agenda

- Goals
- Network Project Overview
- Science Action Club Overview
- Network Project Timeline, Benefits and Expectations
- Application Overview
- Questions



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Goals

- Learn about the NGCP Network Project model
- Learn about the goals of the SAC Network Project
- Review Trainer Expectations
- Review Educator Expectations
- Review Application
- Answer your questions



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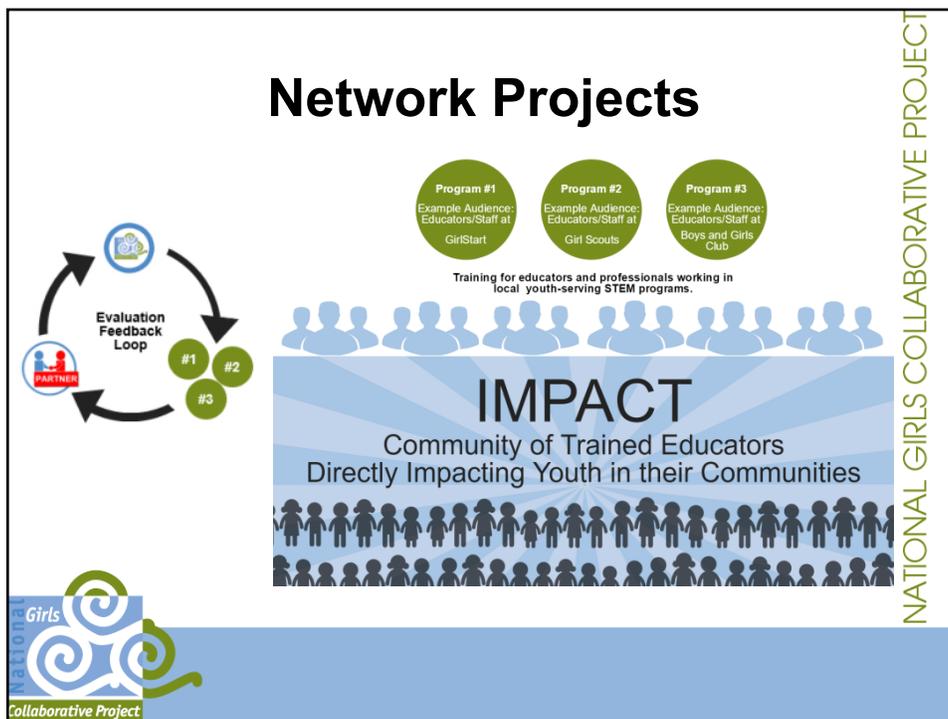
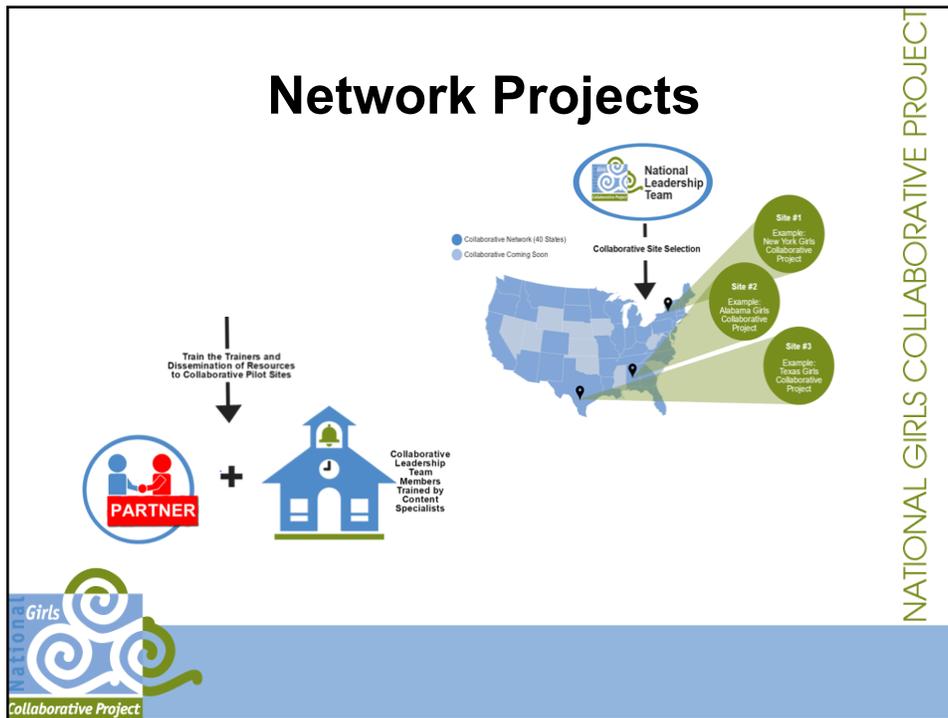
How did it all begin?

- WaterBotics – Texas Girls Collaborative Project



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Network Projects



Inspire a girl to change the world







Smithsonian
Latino Virtual Museum

CALIFORNIA ACADEMY OF SCIENCES



SCIENCE
ACTION CLUB



INVENTIONX



EmpowerHER



The Cornell Lab of Ornithology
Exploring and Conserving Nature



FabFems



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CALIFORNIA ACADEMY OF SCIENCES



SCIENCE
ACTION CLUB

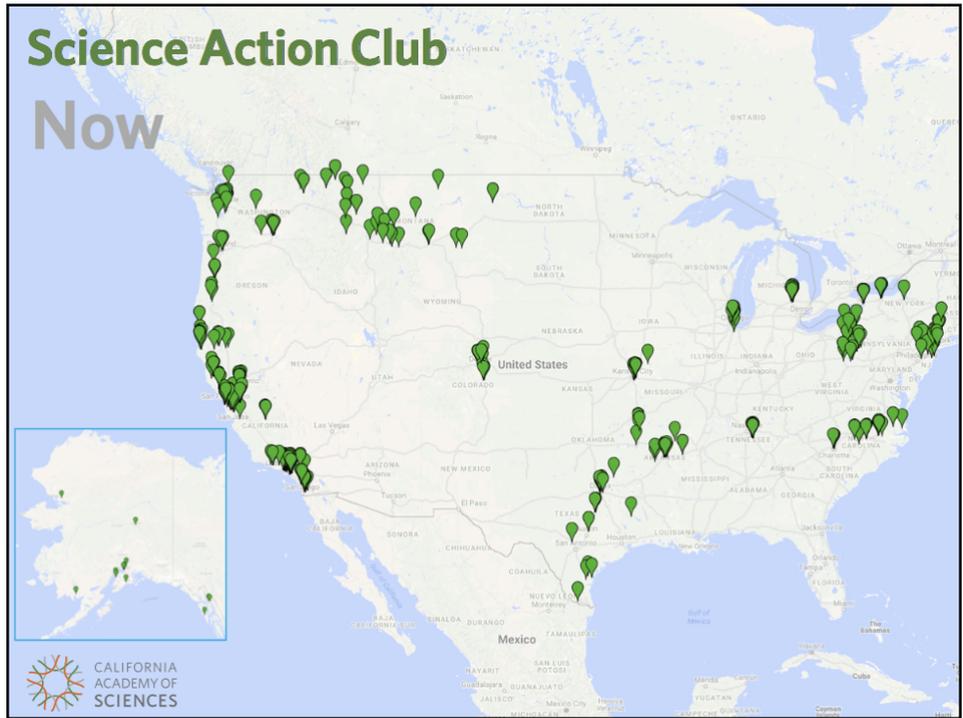
Building STEM Identities Through Citizen Science





National Girls Collaborative Project

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What Is Science Action Club?



- Hands-on environmental science experiences for MS youth in OST
- Explore nature and conduct citizen science
- Curriculum, kits, online portal, and professional development for educators

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Guidebook and Kits



Bird Scouts



Bug Safari

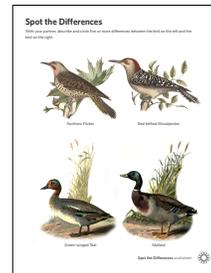


Cloud Quest



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Guidebook and Kits



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Training



From The Guidebook Download

Open the *Cloud Quest* guidebook to Activity 3 (pages 7, 8, and 9) and follow along.

3: GROUND TRUTHING

How do you know if a ground truth was obtained?

Procedure:

- 1. Obtain a ground truth from a local water body.
- 2. Record the location of the ground truth.
- 3. Record the date and time of the ground truth.
- 4. Record the name of the person who obtained the ground truth.
- 5. Record the name of the person who collected the sample.
- 6. Record the name of the person who analyzed the sample.
- 7. Record the name of the person who reported the results.
- 8. Record the name of the person who collected the sample.
- 9. Record the name of the person who analyzed the sample.
- 10. Record the name of the person who reported the results.

Background:

Ground truthing is a process of verifying the accuracy of data collected from a remote sensing instrument. It is done by comparing the data from the instrument with data collected from a ground truth source. Ground truthing is an essential part of remote sensing data processing and analysis.

Objectives:

- 1. Understand the importance of ground truthing in remote sensing.
- 2. Identify the different types of ground truthing methods.
- 3. Apply ground truthing methods to remote sensing data.

Key Concepts:

- 1. Ground truthing is a process of verifying the accuracy of data collected from a remote sensing instrument.
- 2. Ground truthing is done by comparing the data from the instrument with data collected from a ground truth source.
- 3. Ground truthing is an essential part of remote sensing data processing and analysis.

Next ▶



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Training



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Outcomes

INTEREST *I like to do this*

85% of youth report "SAC makes science more fun."



ENGAGEMENT *I can do this*

86% "In SAC, I understand the science activities that we do."

VALUE *This is important to me*

86% "Learning about science can help me better understand the natural world."



"I never thought I would be so excited to hunt for bugs!"
-SAC youth, New Jersey

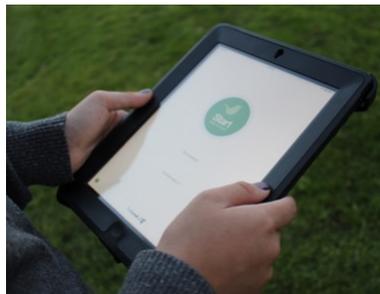
"This is the best training and content format for a program that I've seen in the 12 years that I've been doing afterschool work."

- SAC activity leader, Montana



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Readiness Factors



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Evaluation

- Educator survey
 - after the ToT/ALT
- Attendance and Feedback
 - after each club session
- Youth survey
 - during activity 9, 10, or 11
- Site visits and educator interviews



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Educator Handbooks



Expectation	Description	Due Date
Complete the online training	This required online training will help you succeed as an activity leader. Use the SAC guidbook and follow along. You must complete this training in order to be eligible to receive the SAC activity guidbook and kit.	Before the ALT
Attend the ALT	To take this to complete the SAC Educator Portal, see the Guide to the SAC Educator Portal (written guide or video).	Before the ALT
Identify an outdoor location	Practice leading activities, test out the kit materials, and trade teaching tips with other SAC activity leaders at the required in-person workshop.	Dates vary
Select technology equipment	You are responsible for finding an outdoor space where youth can look at clouds. Ideally, the space should not be more than a five-minute walk from where your club meets. Ask your program supervisor for support if needed.	Two weeks after the ALT
Recruit youth	In order to participate in citizen science, your club will need at least one mobile device and a working internet connection. A laptop and speakers are also highly recommended. Check with your supervisor to make sure you have access to technology during Science Action Club.	Two weeks after the ALT
Connect with mentors	SAC is more fun when the club is full. You are responsible for recruiting 15-20 youth and maintaining strong attendance. Use the Recruitment Toolkit to help you recruit.	Two weeks after the ALT
Lead Science Action Club activities	Once youth are enrolled, send home a letter introducing Science Action Club. Use the SAC Letter template. Download and edit the template to fit your audience and include your own details. Include the SAC Welcome Letter for families to grant permission for evaluation and use of photos/videos. Update signed SAC Release Waivers to the SAC Educator Portal under Required Surveys and Forms.	After your kit arrives Complete all activities by 5/1/2017
	There are 12 Cloud Over Your Shouldered activities. To prepare for each activity in advance: <ul style="list-style-type: none"> • Read activity instructions in the guidbook. • Gather the materials needed. • Revisit the online training, if necessary. 	

Send an Attendance and Feedback Reminder
It's easy for activity leaders to skip this step. Use the [Attendance and Feedback Reminder](#) template to follow up with them at least once a month.

- Send your first reminder three weeks after your ALT.
- Download the template.
- Edit the text to fit your audience and include details from your citizen science checks.
- Highlight one citizen science observation in each reminder (see below for more information).

Track Citizen Science Observations
You are responsible for ensuring that clubs contribute to citizen science. Check for eBird observations once a month, when writing your Attendance and Feedback Reminder email.

- Track citizen science observations on [eBird](#) by visiting www.ebird.org and using the login information for each site.
- If you need help explaining eBird Count or navigating eBird, check out the [eBird Count Screencast](#) for guidance.

Share eBird Observations with Science Action Club
You are responsible for sharing your sites' observations with the California Academy of Sciences.

- Check out the [eBird Steps Checklist Guide](#) for instructions on how to share each club's checklists with the main SAC account.
- Share checklists on or before February 24, April 14, and May 26, 2017.



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 PISCES FOUNDATION

 **S. D. BECHTEL, JR.
FOUNDATION**
STEPHEN BECHTEL FUND

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Thank you!

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Network Project Timeline

2017	
June 8, 2017	Science Action Club Informational Webinar
June 19, 2017	Collaborative applications DUE
June 22, 2017	Science Action Club Collaboratives announced
June 28, 2017	Welcome to Science Action Club! - Trainer Support Call/Preparation for ToT
July 15, 2017	Trainers access the SAC Educator Portal and begin online training Collaboratives begin to recruit clubs for 2017-2018 participation
August 3-4, 2017 San Francisco	Training of Trainers (ToT) – Cloud Quest
August 2017 – January 2018	Trainers lead ALTs
August 2017 – June 2018	Clubs implement SAC
August 8, 2017	Monthly Trainer Support Call
September 12, 2017	Monthly Trainer Support Call
October 10, 2017	Monthly Trainer Support Call
November 14, 2017	Monthly Trainer Support Call
November 16-17, 2017 San Francisco	Training of Trainers (ToT) - TBD (Bird Scouts or Bug Safari)
December 12, 2017	Monthly Trainer Support Call

Network Project Timeline

2018	
January 9, 2018	Monthly Trainer Support Call
February 8-9, 2018 San Francisco	Training of Trainers (ToT) - TBD (Bird Scouts or Bug Safari)
February 13, 2018	Monthly Trainer Support Call
March 13, 2018	Monthly Trainer Support Call
April 10, 2018	Monthly Trainer Support Call
May 8, 2018	Monthly Trainer Support Call
May 30, 2018	SAC-NGCP Showcase
June 1, 2018	Last day for all 2017-2018 programming
June 12, 2018	Final Monthly Trainer Support Call

Network Project Trainer Benefits

- Development of a Citizen Science Educator Training network
- Curriculum guidebooks and teaching kits for ALT and 15+ clubs per module
- Leadership in efforts to support youth development through citizen science
- Ongoing Professional Development through monthly community meetings



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Network Project Trainer Benefits

- Travel/lodging to two (2) ToTs
- Stipend (\$800)
- Limited financial support for workshop expenses



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Network Project Trainer Expectations

- Attend Cloud Quest Training of Trainers
 - August 3-4, 2017 – California Academy of Sciences
- Attend 1-2 other Training of Trainers
 - November and/or February – California Academy of Sciences
- Recruit 15+ Programs for 2 Activity Leader Trainings
- Utilize the NGCP Events System for registration, marketing, attendance, and follow-up
- Support data collection through 2017-2018



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Network Project Trainer Expectations

- Assist in evaluation efforts by connecting with Educators about participation
- Participate in monthly community meetings
 - Second Tuesday at 12pm PST
- Encourage and support use of the SAC online training system



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Network Project Educator Expectations

Educators must:

- Implement 12 one-hour activities with youth
- Be active participants in SAC Educator Community facilitated by the Trainers
- Support the ongoing educator- and youth-level evaluation efforts
- Add program information to The Connector



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Application

- **Letter of Intent** from Collaborative Lead
- Trainer's **current resume**
- **Brief statement** from Trainer
- A **Letter of Support** from the Trainer's supervisor

Email to Casi Herrera at cherrera@ngcproject.org

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Questions?



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cherrera@ngcproject.org



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