Our Planet: EARTH
February 20th, 2019

The webinar will begin at 1:00 p.m. (MT) and will be recorded.

While you’re waiting:
1) Find the toolbar – it will either be on the bottom or top of your Zoom window
2) Introduce yourself in the chat box (please select “Share with All” *not* “Share with Panelists”)
3) Click audio “Join by Computer” – you won’t have microphone access

Tip for viewing: You can resize and move the location of the video and slide screens by clicking and dragging them
Facilitator Introduction

Claire Ratcliffe (Space Science Institute)
Keliann LaConte (Space Science Institute)
Paul Dusenbery (Space Science Institute)
Theresa Schwerin (Institute for Global Environmental Strategies)
Today’s Agenda

Welcome and Introductions
Our Planet: EARTH Campaign
Guest Facilitator: Theresa Schwerin & Citizen Science
Engaging Teens in the Campaign
Hands-On Activity: Polar Bears Go with the Floes
Q&A
Icebreaker Poll Question

Have you ever...? (check all that apply)

a. Slipped on ice
b. Been ice fishing
c. Been ice skating
d. Gotten your tongue stuck on ice
e. All of the above
Earth Day Trivia Question

How many people in the United States participated in the first Earth Day on April 22, 1970?

a. 200
b. 5,000
c. 7 million
d. 20 million

Source: earthday.org
Like an activity and think other library staff should know how great it is? Didn’t like an activity or have modifications to make it better? **Make sure to leave a review!**
Our Planet: EARTH

A national campaign for libraries & their communities

This campaign is sponsored by NASA through STAR Net’s NASA@My Library program that is managed by the Space Science Institute.
This national campaign is an outgrowth of three converging events during April 2020:

- Citizen Science Month,
- the 50th Anniversary of Earth Day,
- and the recent adoption by ALA of “sustainability” as a new core value of librarianship. Every community can and must make a difference.
Campaign Goals

1) Provide libraries with rich and effective resources that they can use to develop engaging environmental programs,

2) Promote citizen science opportunities, and

3) Build lasting collaborations around environmental sustainability both within the library community and beyond.
Register your Library by April 30th:

www.starnetlibraries.org/our-planet-earth/
Community Dialogues in Public Libraries

- **Informal conversations** with community stakeholders, leaders, and members

- **Encourages libraries to reach out to new partners**, consider how to better reach underserved audiences, and better meet their patrons where they are

- **This Framework is constantly evolving**, and we hope to encourage more libraries and other informal venues to contribute
Community Dialogues Webinars

- Tuesday, March 10\textsuperscript{th} at 11:00 am MT
- Wednesday, March 11\textsuperscript{th} at 12:00 pm MT
- Thursday, March 26\textsuperscript{th} at 2:00 pm MT
- Wednesday, April 15\textsuperscript{th} at 12:00 pm MT

The first 500 libraries committed to this will receive our “Arctic to Antarctica” game!
Citizen Science in the Library

Theresa Schwerin
Vice President, Education Programs
Institute for Global Environmental Strategies (IGES)
Theresa_Schwerin@strategies.org
Citizen Science and Libraries

Theresa Schwerin
Institute for Global Environmental Strategies
What is a Citizen Scientist:
A person who volunteers with science research – for example by making and recording observations.

From Zika Zine: The Story of Three Aedes Mosquitoes and the Zika Within Them, https://scied.ucar.edu/zikazine
Satellite-based land cover map (top) and user-created map (left)

User cloud observation (left) and satellite cloud image (below)
Aim your camera at the base of the tree

https://www.youtube.com/watch?v=_pE26h4xlul#action=share
Hands-on activities, games, and resources (e.g., books, videos, FAQs) to build content knowledge and skills

Observer.globe.gov/toolkit
Library Field Testing GLOBE Observer and Toolkit

Participating libraries recruited through STAR Net Library network

Libraries:
- LaSalle Public Library (IL)
- Haddonfield Public Library (NJ)
- Lamar Bruni Vergara Inner City Branch (TX)
- Lee County Library System (FL)
- Kenton County Public Library (KY)
- Cumberland County Public Library (NC)
- Los Angeles Public Library (CA)
- SW Oklahoma City Public Library
Library Programming Using GLOBE Observer
Tree Challenge 2020: Make Every Tree Count
April 1-30

- In celebration of GLOBE 25th anniversary and Earth Day 50th
- Measure the height of as many different trees as possible using the Trees tool in the GLOBE Observer app.
- Individuals, schools, and registered teams that measure the most trees recognized as top observers.
- Recorded Webinar from February 19 and Facilitators Guide to support libraries and other informal educators

https://observer.globe.gov/trees-2020
Trees Challenge 2020: Make Every Tree Count

April 1, 2020 to April 30, 2020

Short link to this page: https://observer.globe.gov/trees-2020

To celebrate the 50th anniversary of Earth Day and the 25th anniversary of the GLOBE Program, GLOBE Observer is hosting a month-long citizen science challenge in April 2020. Volunteers are invited to measure the height of as many different trees as possible throughout the month using the Trees tool in the GLOBE Observer app. The individuals, schools, and registered teams that measure the most trees will be recognized as top observers in the challenge.
Trees Challenge 2020: Make Every Tree Count
Facilitator's Guide for Informal Educators

The Challenge

To celebrate the 50th anniversary of Earth Day and the 25th anniversary of the GLOBE Program, GLOBE Observer is hosting a month-long citizen science challenge in April 2020. Volunteers are invited to measure the height of as many different trees as possible throughout the month using the Trees tool in the GLOBE Observer app. The individuals, schools, and registered teams that measure the most trees will be recognized as top observers in the challenge.

This page contains information relevant to informal educators who are interested in participating in the challenge, including an overview of the science, steps for taking observations and creating teams, and resources that are useful for developing and promoting Trees Challenge 2020 programming. It can also be downloaded in a PDF version for easier printing.

Timeline and Important Dates

February 19 - Webinar for Educators at 2:00 - 3:30 pm EST (19:00 to 20:30 UTC)
March 30 - Facebook Live at 1:00 pm EST (17:00 UTC)
April 1 - Start of challenge
April 1 - National Go on a Walk day
April 7 - World Health Day (see Science Connections to Public Health)
April 22 - 50th Earth Day
April 22 - GLOBE's 25th anniversary
April 24 - Arbor Day
April 30 - End of challenge
May 3 - Last day to submit data
May TBD - Winners Announced
Trees Challenge 2020 Resources

This page contains resources specifically for the Trees Challenge 2020: Make Every Tree Count. For more general Trees resources and activities, check the resource library for individual observers or the Trees section of the toolkit for informal educators.

**Trees Challenge 2020 - Facilitator's Guide**

Webpage version of the Facilitator's Guide

**Trees Challenge 2020 Flyers**
A printable poster and promotional flyers for the Trees Challenge 2020, including options to customize with team name and referral code. Includes both full color and black and white versions of the quarter-sheet flyer. (PDF files, downloaded as a zipped folder.)

Los folletos en español (carpeta comprimida de archivos PDF)

**Trees Challenge 2020 Promotion Resources**
A folder of promotional flyers and templates, as well as logos and other images that can be used in the promotion of events for the Trees Challenge 2020. (PDF and image files in a zipped folder.)
Build a Paper Clinometer – from the GLOBE Observer Toolkit

https://observer.globe.gov/toolkit/trees-toolkit/activities

Photo courtesy of Los Angeles Public Library. Used with permission.
Trees STEAM Activities and Programming - LaSalle Public Library

Blog
http://www.starnetlibraries.org/uncategorized/make-every-tree-count-programs-you-can-use/

Videos
https://www.youtube.com/watch?v=9D1Mu6I2knI&feature=youtu.be
Extra Video: Programming with Gratitude Rocks:
https://www.youtube.com/watch?v=ilLoppskP5M&feature=youtu.be
Create a GLOBE Team for your library/community!

In celebration of the 50th Anniversary of Earth Day and the 25th Anniversary of the GLOBE Program, we are challenging you to make every tree count by using the GLOBE Observer app to contribute to a global tree inventory.

Download and customize promotional resources

Colorado Cloudsters
Colorado, United States of America
Year Created: 2019  Referral Code: GLIDWUYO

Data Site Locations

Members / Observations

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Members</td>
<td>2</td>
</tr>
<tr>
<td>Clouds</td>
<td>228</td>
</tr>
</tbody>
</table>

Go to settings and join our team!

Download the GLOBE Observer app and start measuring tree height with your phone's built-in sensors.

National Aeronautics and Space Administration
www.nasa.gov

Team Name
Referral Code

In celebration of the 50th Anniversary of Earth Day and the 25th Anniversary of the GLOBE Program, we are challenging you to make every tree count by using the GLOBE Observer app to contribute to a global tree inventory.

LEARN MORE
observer.globe.gov/trees-2020

www.nasa.gov
Tips for Teams

❖ If you set up multiple teams, try starting each team name with the same string to make it easier to group your teams together: example Scouts Australia Troop Name
❖ Keep your team private if you want to use the tool to track engagement
❖ Use poster and/or handout to distribute your team name and referral code to your guests
❖ After you create a team, register with us to participate in the challenge: https://observer.globe.gov/trees-2020
For more information

GLOBE Observer: observer.globe.gov/
• Spring 2020 Trees Challenge: https://observer.globe.gov/trees-2020
• Toolkits for Informal Educators: https://observer.globe.gov/toolkit

STAR Net Blogs on Trees Programming
http://www.starnetlibraries.org/uncategorized/make-every-tree-count-programs-you-can-use/

Videos on Trees Related Programs in Libraries

LaSalle Public Library (Brittany Blomquist)
STEAM Programs: https://www.youtube.com/watch?v=9D1Mu6l2knI&feature=youtu.be
Gratitude Rocks: https://www.youtube.com/watch?v=iLoppskP5M&feature=youtu.be

Los Angeles Public Library (Vivienne Byrd)
Neighborhood Science: https://www.youtube.com/watch?v=LaMubii9vSM&feature=emb_err_watch_on_yt
Engaging Teens in Advocacy

Why Teens?
• Passionate & Energetic
• Optimistic
• Determined
• Creative
• Intelligent
• Flexible
• Awareness of Diverse Viewpoints

Special thanks to Erin Hoopes!

Photo Credit: Pixabay
Engaging Teens in Advocacy

40 Developmental Assets: Building Blocks of Healthy Development

External:
• Community values youth
• Youth as resources
• Service to others
• Safety

Internal:
• Caring
• Equality and social/environmental justice
• Integrity
• Responsibility
• Planning and decision-making

Credit: Search Institute
Engaging Teens in Advocacy

5 Stages to Action

1. Identifying the problem: What issues matter most to them?
   • What do you believe are some of the most serious environmental problems present in our community?
Engaging Teens in Advocacy

5 Stages to Action

2. Brainstorming and Thinking Big
   • What do we wish we could do if we had the power and resources?
Engaging Teens in Advocacy

5 Stages to Action

3. Narrow Down to One Topic: Decision Making and Goal Setting
   • Given our resources and the range of ideas we’ve brainstormed, what is the most realistic goal we can accomplish?
Engaging Teens in Advocacy

5 Stages to Action

4. Planning and Taking Action
   • What are the steps we need to take to achieve our goal?
Engaging Teens in Advocacy

5 Stages to Action

5. Evaluate

• What was our positive impact and how can we sustain it over time?
Share in the chat box

How have you involved teens in civic or environmental action?
Polar Bears
Go with the Flow and Your Teens

• Explores a serious topic in a light-hearted way
• Connects to the every day
• Provides tips for taking action
Thank you!

Any Questions?