



Webinar Introduction What is this all about?

Agenda for the webinar:

- Introduction
- Importance of tree height observations perspectives from researchers
- Trees tool walkthrough
- GLOBE Teams and how to use them for the challenge
- GLOBE Observer website and toolkit
- Implementing the challenge in informal education settings
- Question and answer session

What is Citizen Science?

One definition: "Citizen science is a form of research collaboration involving members of the public in scientific research projects to address real-world problems."

Definition of citizen science from J. P. Cohn, "Citizen Science: Can Volunteers Do Real Research?" BioScience, vol. 58, no. 3, pp. 192–107, March 2008.



Poster from a blog by the Wilson Center's Common's Lab about the Citizen Science Association Students collaborate with scientists

The GLOBE Program

Hands-on science since 1995

Atmosphere/Climate, Hydrology, Soil, Land Cover/Biology, Phenology and Earth System Science Projects http://www.globe.gov



International Program in 122 countries

Over 175 million environmental measurements reported

Expanding through the GLOBE Observer app

08/26/2017 Clouds



North

Time (UTC): 17:16:00

Site: 18SUJ341186

Total Sky Cloud Cover: **Isolated (10-25%)** Sky Color: **Light Blue** Sky Clarity: **Clear**

High Level Clouds (not observed)

Mid Level Clouds

Cloud Types: Altocumulus Cloud Cover: Few (1-10%) Opacity: Translucent

Low Level Clouds

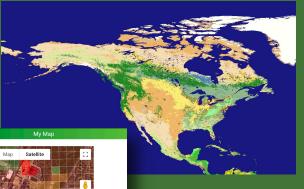
Cloud Types: Cumulus Cloud Cover: Isolated (10-25%) Opacity: Opaque

Surface Conditions: Dry Ground, Leaves on Trees

🚱 NASA Satellite View

User cloud observation (left) and satellite cloud image (below)





Legend

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02b Deciduous - Broad Leaved

Residential Property Commercial Property

Roads and Parking

vergreen Needleleaf Forests

Evergreen Broadleaf Forests

eciduous Needleleaf Forest

Athletic Field, Golf Course, Cemetery

Medium Gras Short Grass

Dirt/Other

MODIS Date

Satellite-based land cover map (top) and usercreated map (left)



Choose your protocol:









Trees Challenge 2020

- Celebrating the 50th anniversary of Earth Day and the 25th anniversary of the GLOBE Program
- April 1 April 30, 2020
- Measure the height of as many different trees as possible using the NASA GO app
- Participate as an individual, team, or school
- Top observers in each category will be recognized

