GLOBE clouds

GLOBE Clouds: Engaging Citizen Scientists for 30 Years

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NASA SMD Science Activation Program

https://science.nasa.gov/learn/about-science-activation/

Overview

- Satellite Comparisons by the Numbers
- 2024 Solar Eclipse Publication
- Civil Air Patrol
- SKYWARN & Disasters
- Opportunities For You

Thank you to CERES, SatCORPS, CERES FLASHFlux, and ASDC teams for their ongoing support

Satellite Comparisons by the Numbers and Addition of NOAA-20 1 January 2017 to 1 May 2025

Satellite	Total Satellite Comparisons	NASA LaRC Team Support
GEO Satellite Comparisons GOES, Himawari, METEOSAT	1,137,403	SatCORPS
SSF Satellite Comparisons • Terra – 174,700 • Aqua – 147,892 • NOAA-20 – 66,245	388,837	CERES FLASHFlux
Total (2017 – Current)	1,526,240	

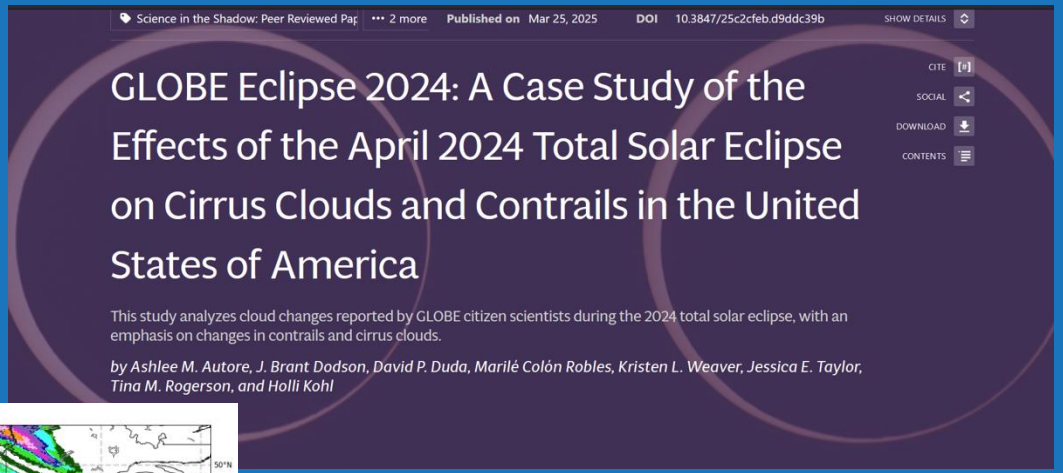
GLOBE Clouds Observations: 1,655,761

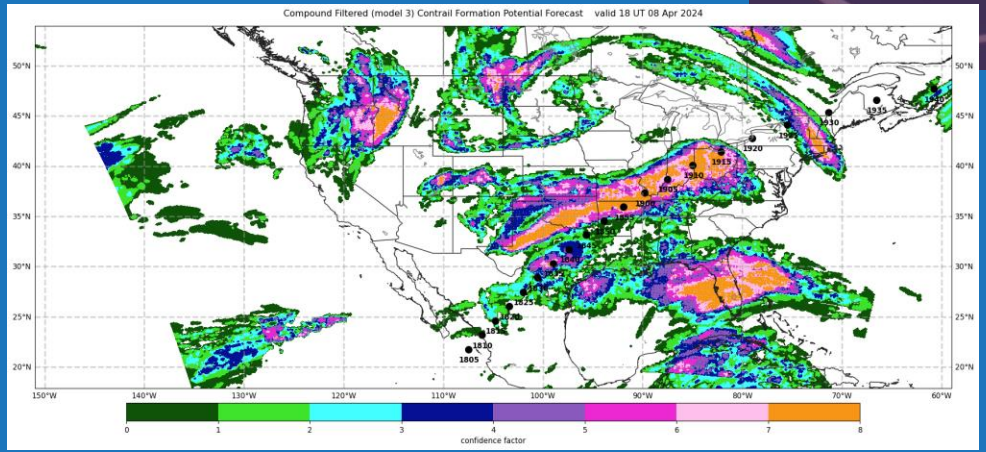
Observations with Images: 621,132

Total Clouds and Sky Photos: 3,067,254 (each cardinal direction, upward, and downward)

Total Solar Eclipse BAAS Publication

Thank you to everyone who helped!



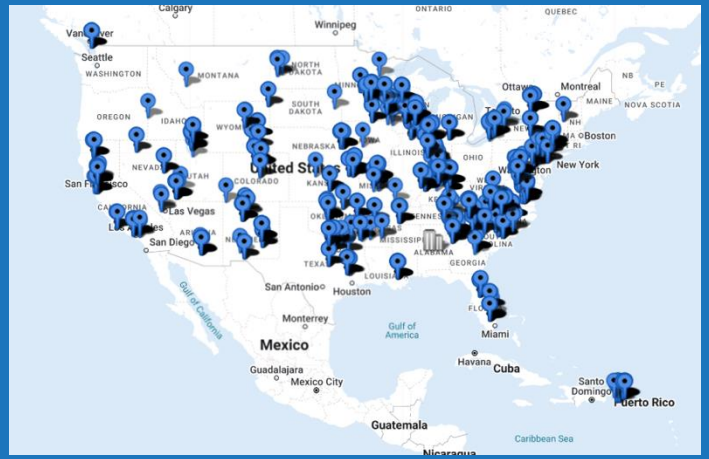


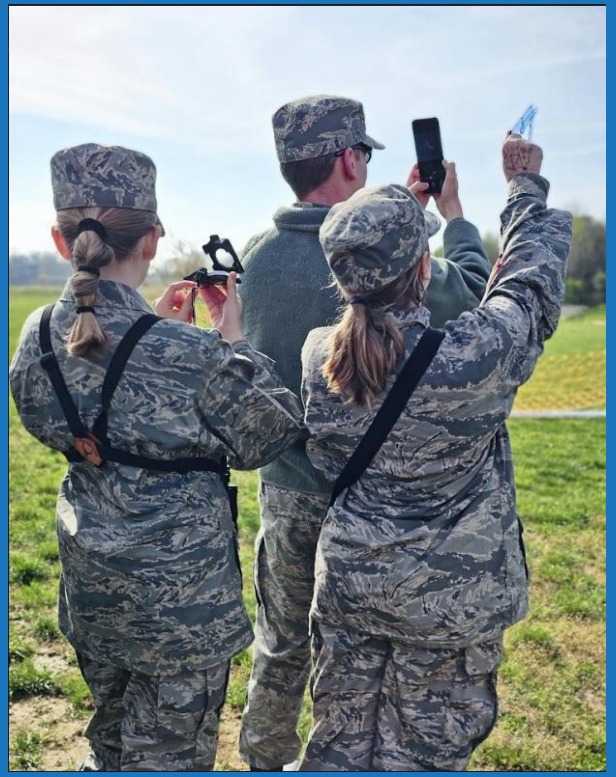
[BAAS Release Link]

GLOBE & The Civil Air Patrol

- Aviation Weather Mission
  - 4 primary observation dates, 1st was in April
  - Weather briefings the evening before
  - Making weather & clouds observations for 4 hours
  - Collecting data on planes, contrails, and upper-air weather
- Big thanks to Dave Duda for making CFP maps for our weather briefings

Thank you to *everyone* who gave input and suggestions!

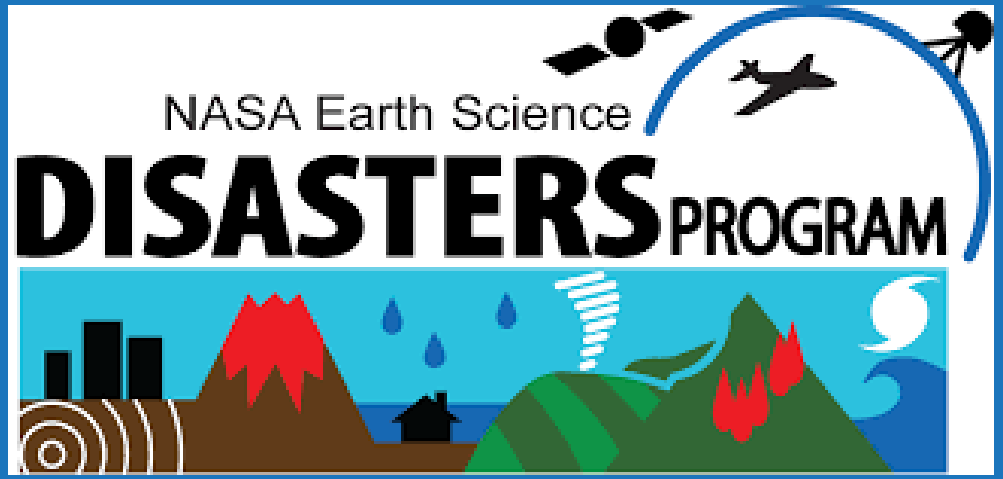




SKYWARN & Disasters

Initial work with these groups on how to use GLOBE data for their purposes

Real-time photos during severe weather events

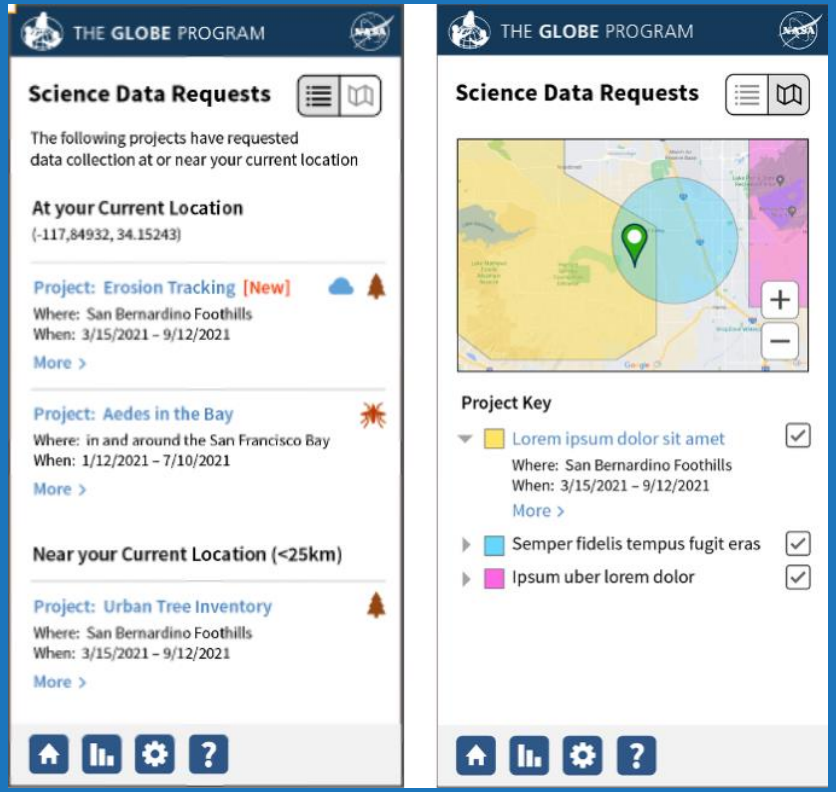


Near real-time reports following a disaster event

Opportunities for You

1. Requesting Data Collection (Geofencing) - **now available in the US and around the world**!
2. Suggest ideas for Data Challenges
3. Use the data

https://observer.globe.gov/get-data/clouds-data



https://observer.globe.gov/get-data/request-observations

Extra Opportunities

4. How can we support you? We can help spread the word about your work!
    - Emails that go out to public with each satellite comparison
    - Clouds Quarterly Update

NASA GLOBE Clouds Quarterly Update

December/January/February 2024-2025

Welcome to our NASA GLOBE Clouds Quarterly Update! It is hard to believe that we are starting a new year already! We are grateful for all the observations you submitted to GLOBE in 2024. We are proud of all the work GLOBE students, educators, and citizen scientists are doing across the world to help us better understand our environment, and we are looking forward to another year of learning, research, and collaboration! Speaking of a new year, we would like to share that the 2025 NASA Science calendar is already available both in English and Spanish. You can download the calendars, wallpapers, and images using the following link: 2025 NASA Science Calendar - NASA Science

Favorite Cloud and Ask Us Anything

We have been featuring GLOBE Clouds photos from each region, and we have asked you to vote for your favorite. This quarter, THREE cloud photos tied for first place! See the winning photos below:

 *Europe and Eurasia (Submitted by Belgium Citizen Science)*	 *Near East and North Africa (Submitted by Kuwait GLOBE v-School)*	 *North America (Submitted by United States Citizen Science)*

Thank you!

Please contact us with any questions and suggestions

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