PACE Cloud Challenge: Details

- Set the PACE overpass alert (daytime only).
- Be in position 5 minutes before the overpass time.
- Start your observation.
- Collect all six photos.
- Hit submit observation.

Go Above and Beyond

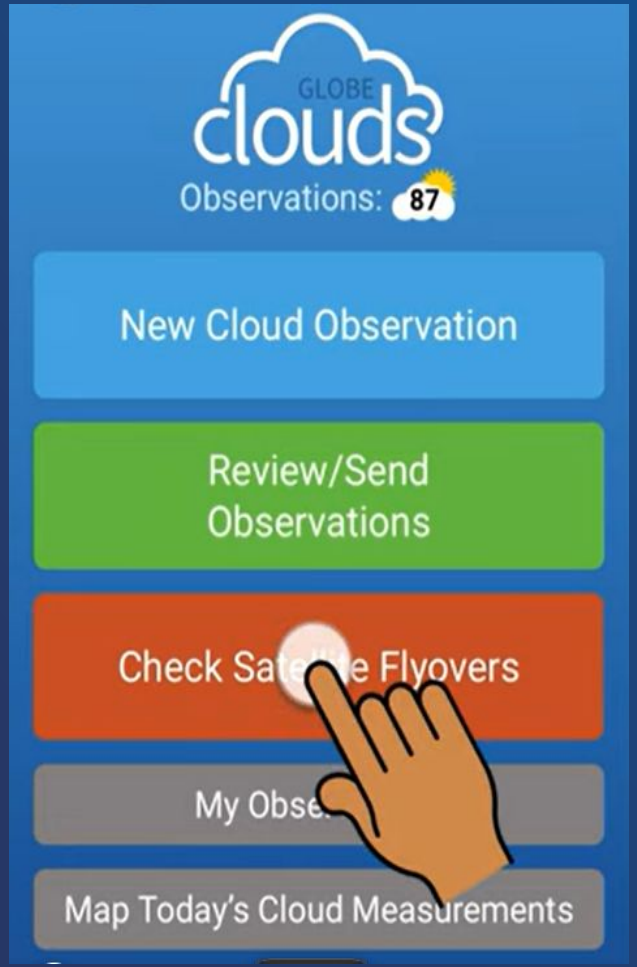
- Tell us the type of phone or device.
- Submit multiple observations in one day for PACE.

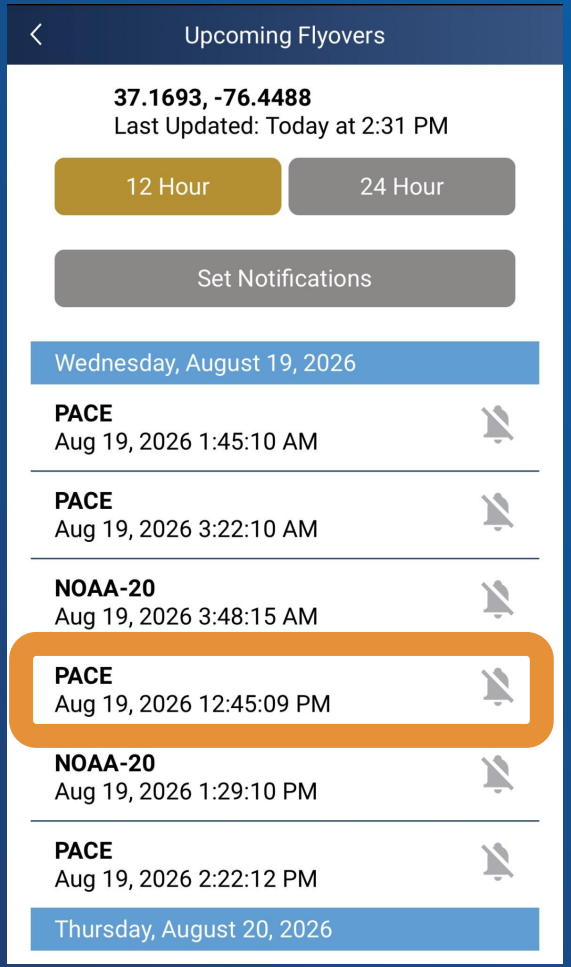
Step 1 - Set the PACE Overpass Notification

NOTE:

For the PACE Clouds Challenge, only send daytime observations.

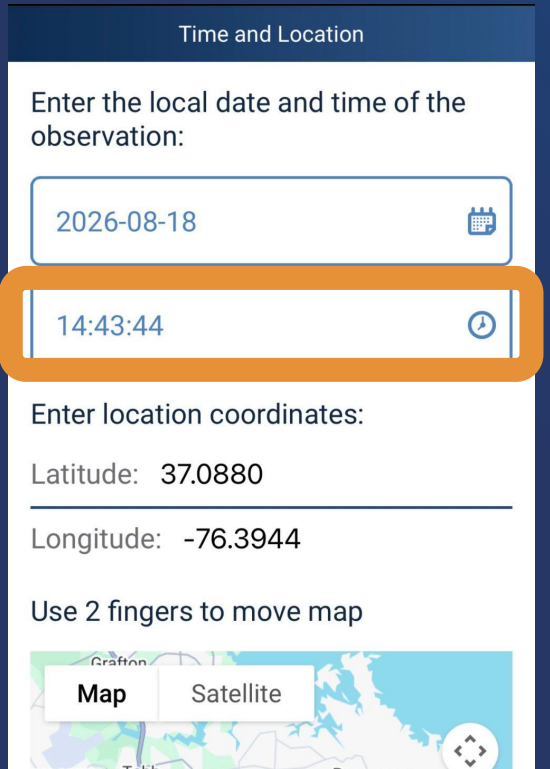
Cloud observations are best when done in the daytime.





Step 2 - Be in position

Be ready to make an observation 5 minutes before the PACE overpass time.



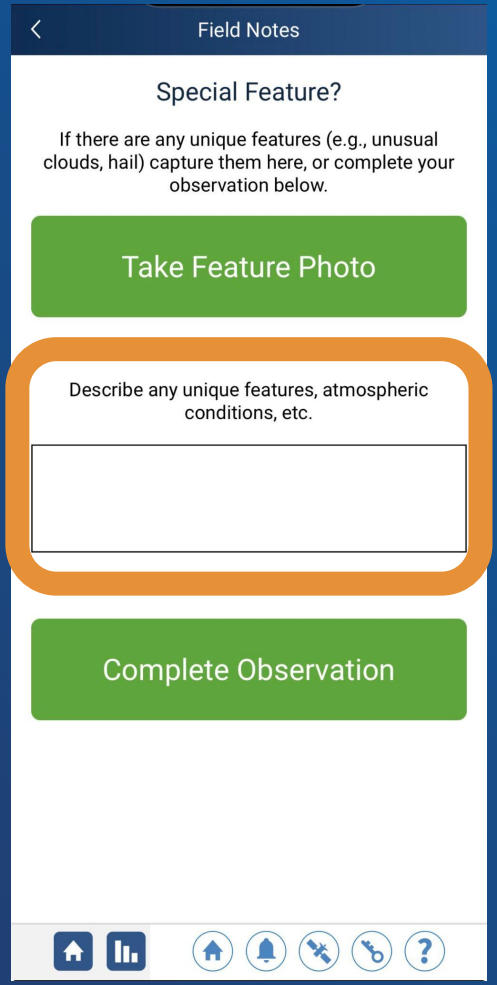
Step 3 - Collect all 6 photos

Go Above and Beyond

Part 1: Phone Type

Share the type of phone or device you are using in the Special Feature comment box.

Examples:
- iPhone 13 Pro
- Samsung Galaxy S26

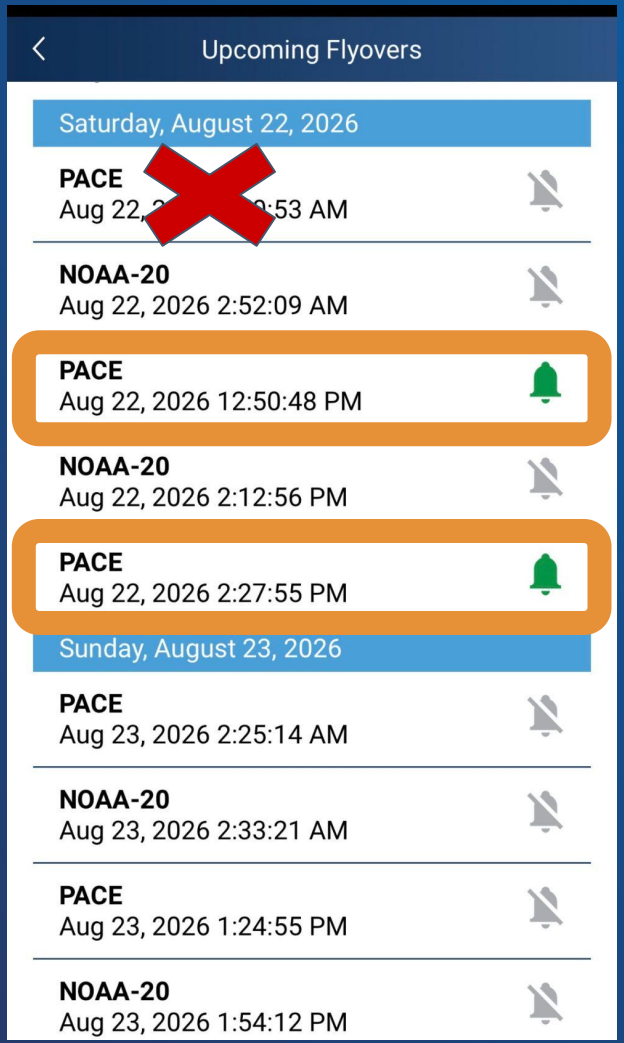


Go Above and Beyond

Part 2: Two Flyovers

If you see two overpasses during daylight hours on the same day, make observations during both times.

Tip: Overpasses are usually about two hours apart from each other.



PACE Cloud Challenge: Volunteer Training Webinars
9 Sept (English) and 11 Sept (Spanish) at 3 pm ET (19:00 UTC)

2026-09-11

Reto PACE y Nubes 2026: Seminario web de capacitación para voluntarios

Acompáñanos el 11 de septiembre en un seminario web de capacitación para voluntarios, con el fin de prepararnos para el próximo Reto PACE y Nubes. >>

2026-09-09

PACE Clouds Challenge 2026: Volunteer Training Webinar

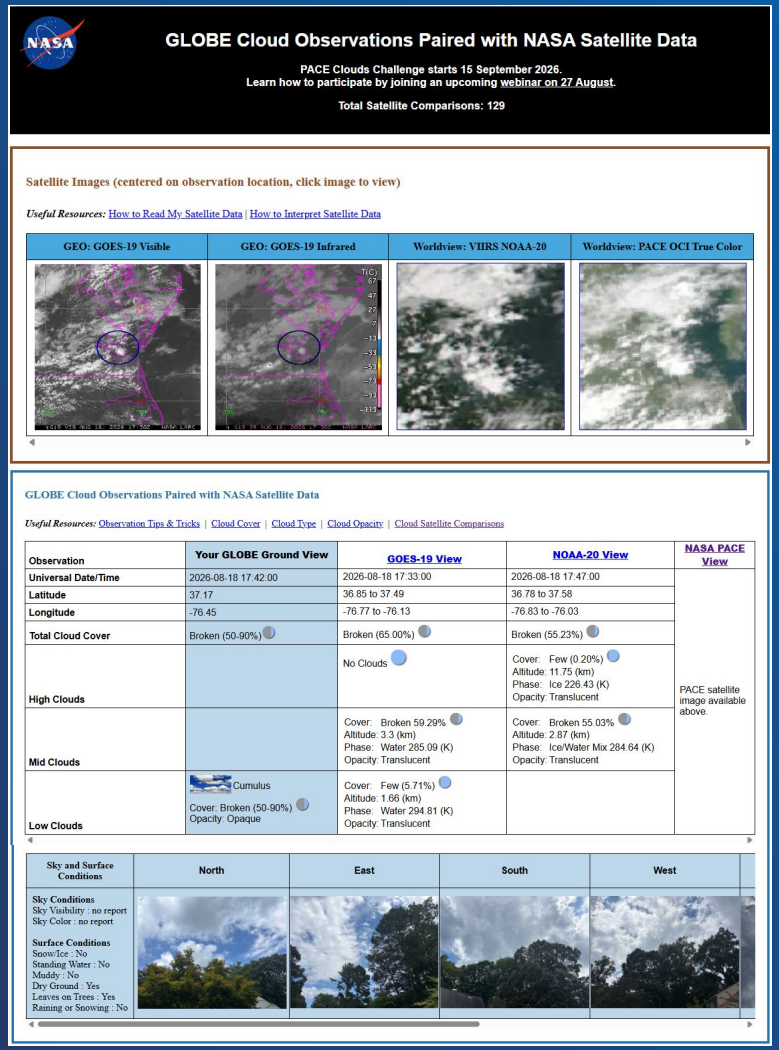
Join us on 9 September for a volunteer training webinar to prepare for the upcoming PACE Clouds Challenge. >>

observer.globe.gov/news-events-and-people/events

Your Personalized NASA Satellite Match

A personalized email from NASA is sent as soon as the day after your observation with a satellite match table that has:

- Clickable satellite images centered on observation location
- Summary of satellite data
- Your photographs submitted with the observation



GLOBE Cloud Observations Paired with NASA Satellite Data

PACE Clouds Challenge starts 15 September 2026.
Learn how to participate by joining an upcoming webinar on 27 August.

Total Satellite Comparisons: 129

Satellite Images (centered on observation location, click image to view)

Useful Resources: How to Read My Satellite Data | How to Interpret Satellite Data

GEO: GOES-19 Visible	GEO: GOES-19 Infrared	Worldview: VIIRS NOAA-20	Worldview: PACE OCI True Color

GLOBE Cloud Observations Paired with NASA Satellite Data

Useful Resources: Observation Tips & Tricks | Cloud Cover | Cloud Type | Cloud Opacity | Cloud Satellite Comparisons

Observation	Your GLOBE Ground View	GOES-19 View	NOAA-20 View	NASA PACE View
Universal Date/Time	2026-08-18 17:42:00	2026-08-18 17:33:00	2026-08-18 17:47:00	
Latitude	37.17	36.85 to 37.49	36.78 to 37.58	
Longitude	-76.45	-76.77 to -76.13	-76.83 to -76.03	
Total Cloud Cover	Broken (50-90%)	Broken (65.00%)	Broken (55.23%)	
High Clouds		No Clouds	Cover: Few (0.20%) Altitude: 11.75 (km) Phase: Ice 226.43 (K) Opacity: Translucent	PACE satellite image available above.
Mid Clouds		Cover: Broken 59.29% Altitude: 3.3 (km) Phase: Water 285.09 (K) Opacity: Translucent	Cover: Broken 55.03% Altitude: 2.87 (km) Phase: Ice/Water Mix 284.64 (K) Opacity: Translucent	
Low Clouds	Cumulus Cover: Broken (50-90%) Opacity: Opaque	Cover: Few (5.71%) Altitude: 1.66 (km) Phase: Water 294.81 (K) Opacity: Translucent		

Sky and Surface Conditions	North	East	South	West
Sky Conditions Sky Visibility : no report Sky Color : no report **Surface Conditions** Snow/Ice : No Standing Water : No Muddy : No Dry Ground : Yes Leaves on Trees : Yes Raining or Snowing : No				

KEEP COLLECTING OBSERVATIONS EVEN WHEN THE CHALLENGE IS OVER.

QUESTIONS AND ANSWERS

You may unmute or type your question in the chat.

The PACE and Crowdsourcing teams will respond to all your questions.