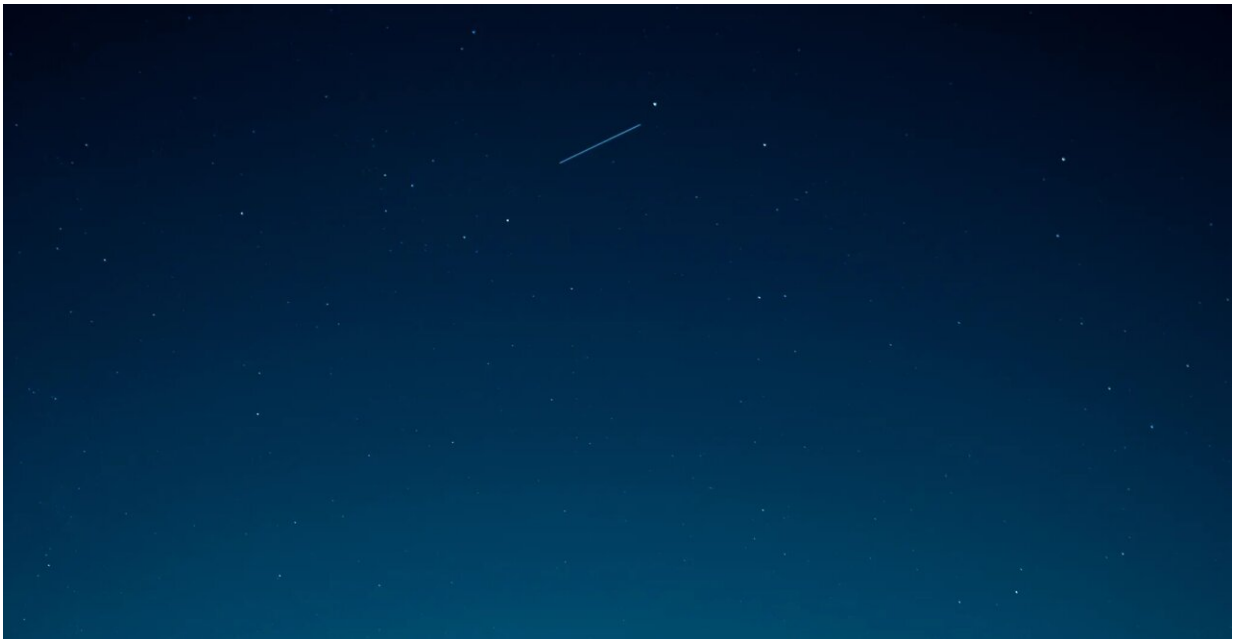


# Like a diamond in the sky: How to spot NASA's solar sail demo in orbit

September 9 2024, by Arezu Sarvestani

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NASA's Advanced Composite Solar Sail System is seen orbiting Earth in this 13-second exposure photograph, Monday, Sept. 2, 2024, from Arlington, Virginia. Credit: NASA/Bill Ingalls

Now that its reflective sail has deployed fully open in orbit, the Advanced Composite Solar Sail System can be seen in the night sky from many locations across the world!

Stargazers can join NASA's #SpotTheSail campaign by using the NASA

app on [mobile platforms](#) to find out when the spacecraft will be visible at their location. The app, which is free to use and available on [iOS](#) and [Android](#), provides a location-specific schedule of upcoming sighting opportunities. A built-in augmented reality tool points users to the location of the spacecraft in real time.

Can you spot the [solar sail](#)? Share your [viewing experience](#) online using the hashtag #SpotTheSail for a chance to be featured on NASA's website and social media channels.

Here's how to use the sighting prediction tool:

- Install and open the NASA app on an iOS or Android device.
- Tap on the "Featured" tab on the bottom navigation bar.
- Tap on the Advanced Composite Solar Sail System mission from the Featured Missions at the top of the screen.
- Tap on the "Sightings" tab on the bottom navigation bar. A list of all the upcoming sightings for your location will be displayed.
- If you are using an iOS device, you can tap on the "Sky View" link for an augmented reality guide to help you locate the spacecraft's real-time location during the visible pass.

NASA's Advanced Composite Solar Sail System is testing new technologies in low Earth orbit, including a composite boom system that supports a four-piece sail. Not to be confused with [solar panels](#), solar sails allow small spacecraft to "sail on sunlight," eliminating the need for rocket fuel or other conventional propellants. This propulsion technology can enable low-cost deep space missions to increase access to space.

Provided by NASA

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