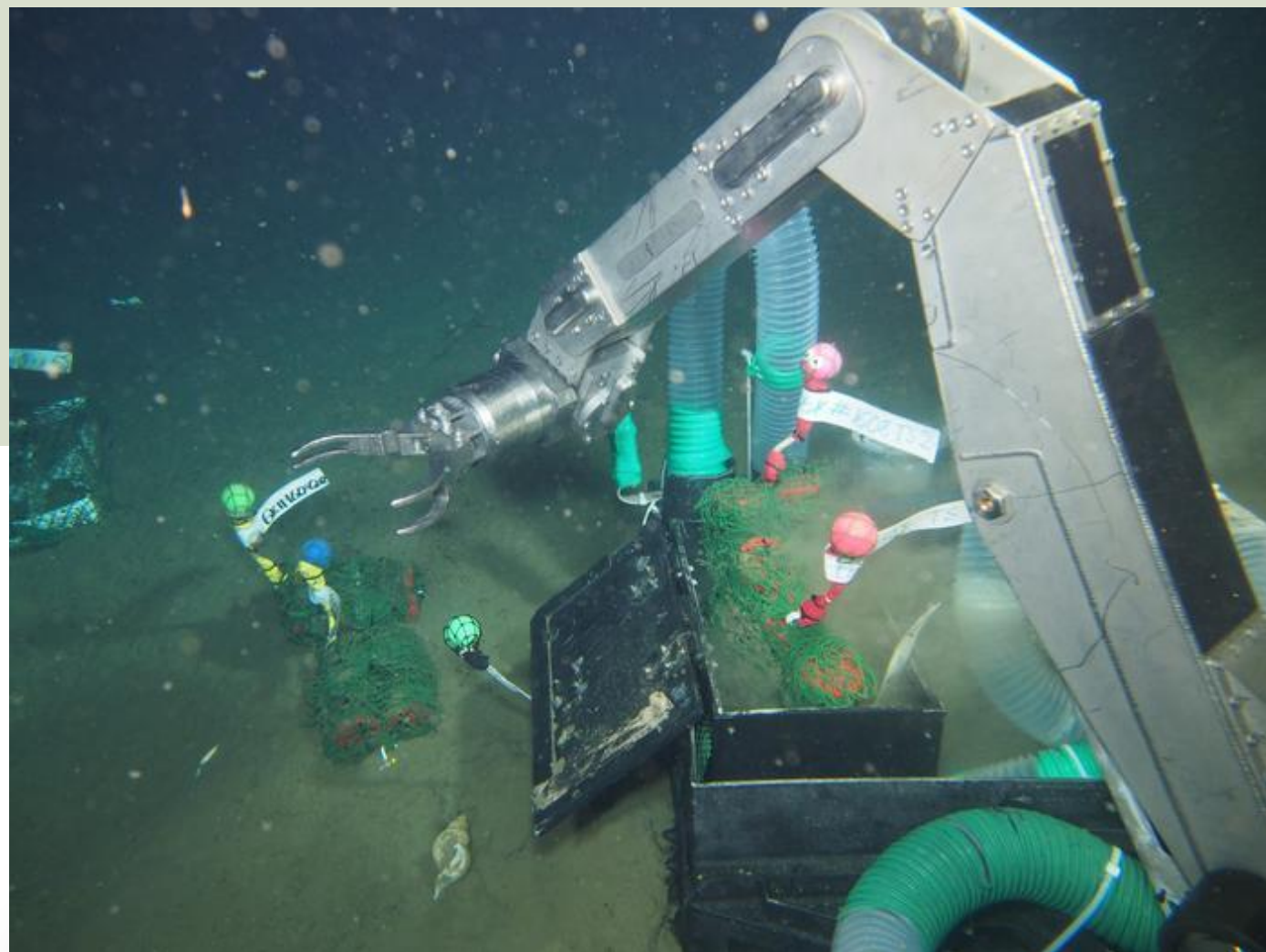




Planet Pulse

**A rhythmic check-in on
climate issues**





Researchers submerged LAHB films at a depth of 855 meters to test real-world deep-sea biodegradation. After 13 months, the LAHB plastic lost over 80% of its mass, showing its potential as a safer alternative to conventional plastics that persist in marine ecosystems.



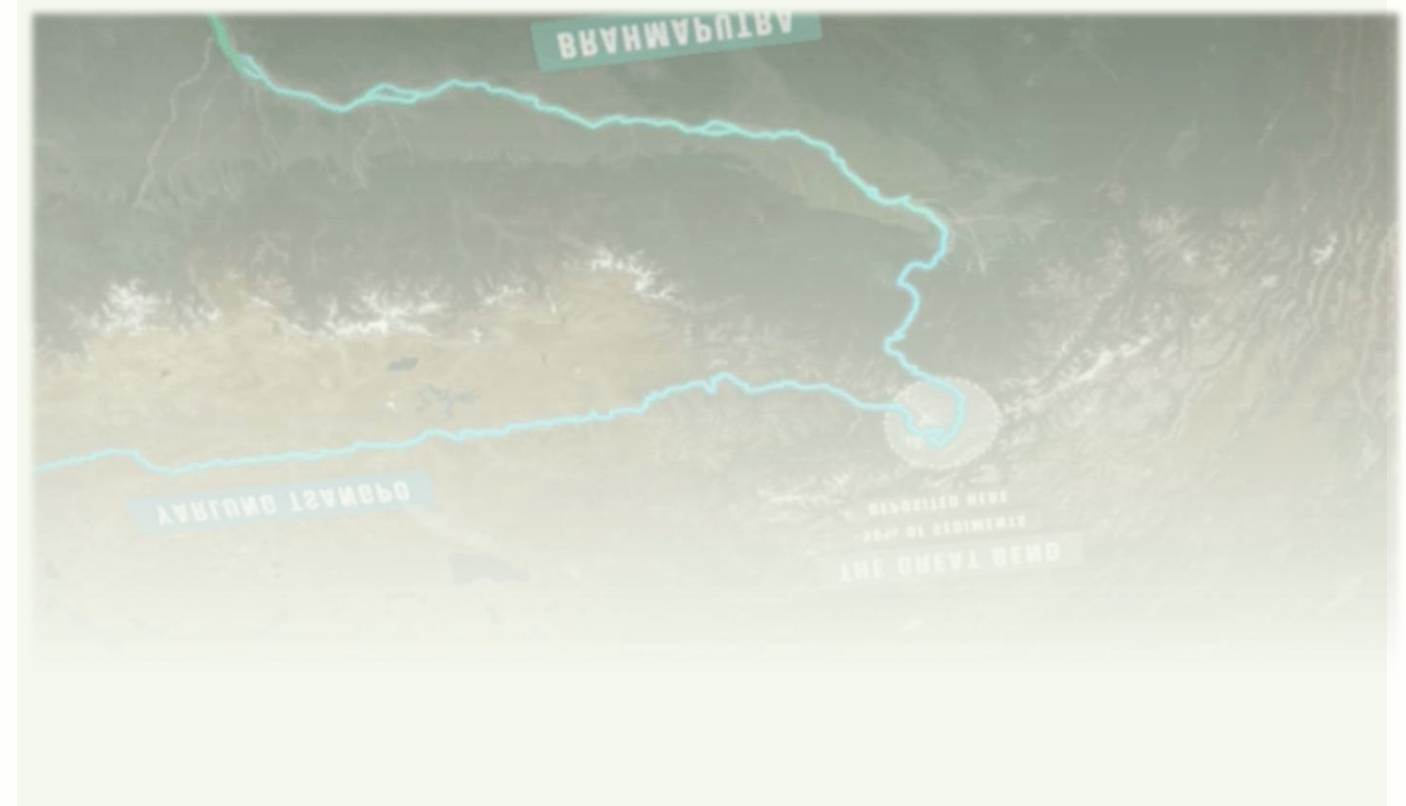
Can we dissolve the problem?

- Researchers at Japan's Shinshu University achieved a first in the world of plastics.
- They have developed a plastic made from microbes that decomposes in deep ocean conditions.
- Professor Seichi Taguchi said "The study provides a pathway for safer alternatives to conventional plastics and supports the transition to a circular bioeconomy."
- Given the mounting problem plastic waste is creating, let's hope he's correct.



Dam, that's big!

- China has started construction on the world's largest hydropower plant.
- At a cost of \$170 billion, the Yarlung Tsangpo dam is expected to generate 300 billion kilowatt-hours of electricity annually
- The electricity that will be produced will equal the power consumed in Britain last year.
- The project is expected to be completed in the 2030s.
- Add another clean energy area that China wants to dominate.



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Off kilter – that can't be good

- Speaking of dams, scientists at Harvard have discovered that the hundreds of billions of gallons of dammed-up water have slightly shifted the Earth's poles from their axial rotation.
- The effect was explained in the following way:
 - Imagine Earth is a beach ball spinning on your finger. If someone stuck a wad of gum on the ball, it might wobble on its axis of rotation and move to adjust to the increase in mass.
- Jim Davis a Columbia University geodesist said, "The mass motions reveal both important natural processes in the Earth system, as well as significant human-induced changes..."
- Great, yet another thing to worry about. 🤪🤪🤪



The Three Gorges Dam in China is the world's largest.



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Smokey goes tech



Google Research, in partnership with Muon Space and the Erath Fire Alliance recently unveiled a new satellite-based tool designed to achieve early detection of wild fires.



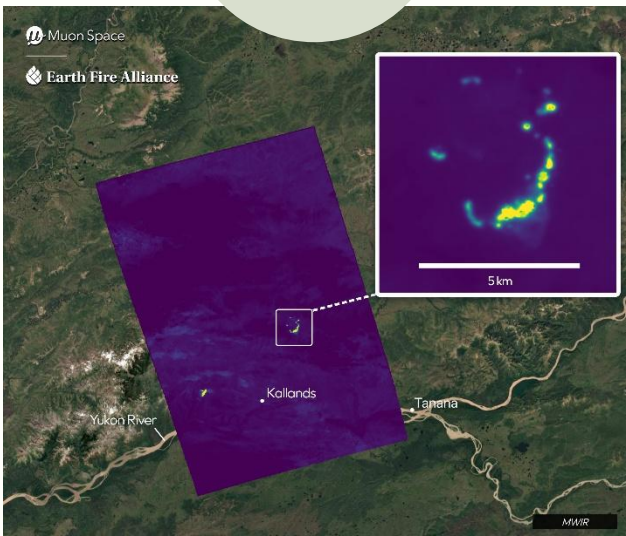
FireSat Protoflight can detect fires as small as 5 x 5 meters.



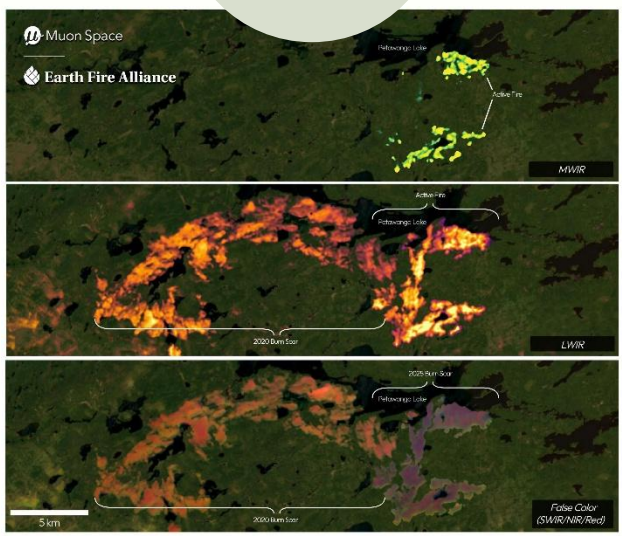
Once fully operational, it will scan regions every 20 minutes.



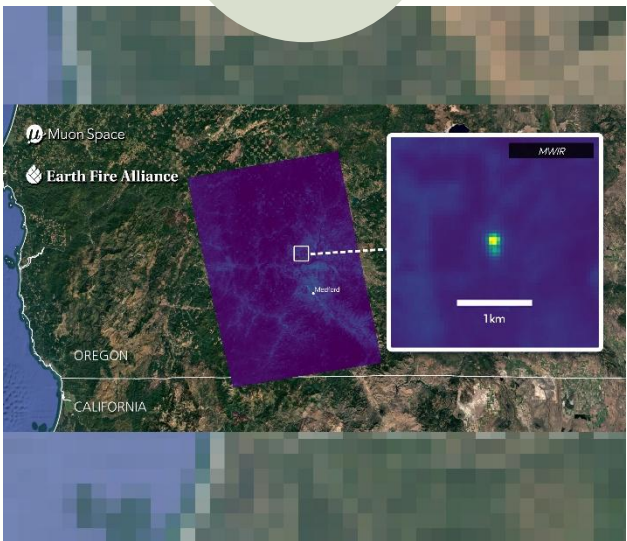
The first three satellites are expected to deploy in mid-2026.



**Moran and Chicken Fire
Alaska, USA**



**Nipigon Fire
Ontario, Canada**



**A small roadside fire
Oregon, USA**

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Unbiased and Unfiltered

An honest assessment of the cleantech industry and the effort to stem climate change.

