

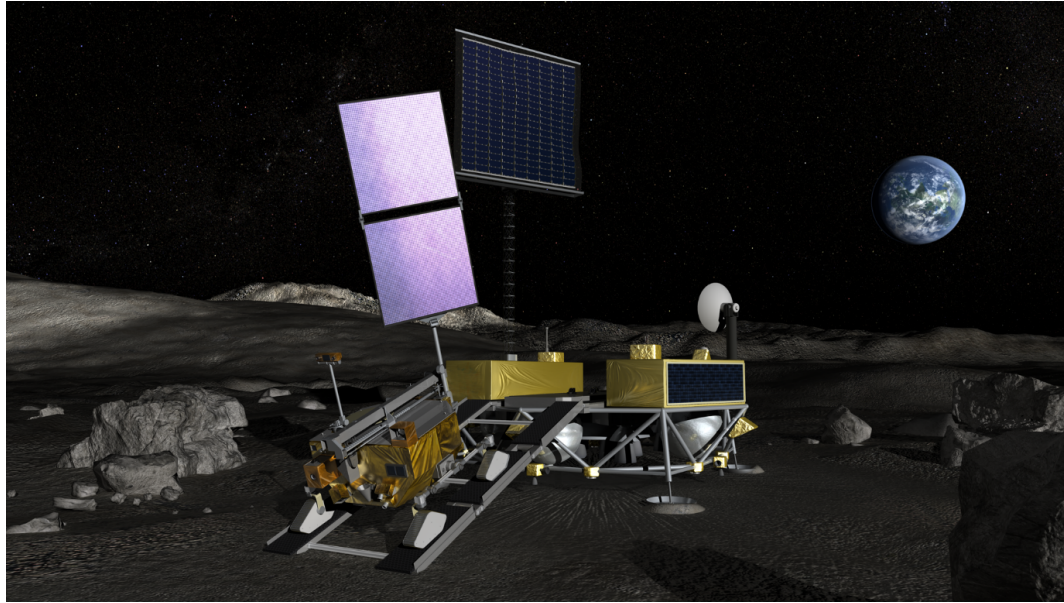
## The Lunar Polar Exploration Mission (LUPEX)

By IAStoppers | 2024-05-18 16:05:00



### Lunar Polar Exploration Mission (LUPEX)

[Lunar Polar Exploration Mission \(LUPEX\)](#) is likely to take flight in a few years.



[Ref: JAXA]

### **About the Lunar Polar Exploration Mission (LUPEX):**

- **LUPEX** is a joint mission by the **Japan Aerospace Exploration Agency (JAXA)** and the **Indian Space Research Organisation (ISRO)**.
- The mission is aimed at exploring the Moon for water, other resources, and gaining expertise in lunar surface exploration.
- **Launch Date:** Scheduled for **2025**.
- **Mission Components:** Includes a **lander** developed by ISRO and a **rover** managed by JAXA.
- **International Contributions:** The rover will carry instruments from not only ISRO and JAXA but also from **NASA** and the **European Space Agency (ESA)**.

### **Proposed Instruments:**

- **PRATHIMA** (Permittivity and Thermo-physical investigation for Moon's Aquatic Scout): Aimed at the in-situ detection and quantification of water-ice in the lunar surface and sub-surface.
- **LEDEX** (Lunar Electrostatic Dust EXperiment): Designed to detect charged dust particles, confirm dust levitation processes, and estimate the size and flux of charged levitated dust particles in the Moon's polar regions.