

WRAP Exams · wrapexams.com

Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

ask@wrapexams.com · [+91 85951 84903](tel:+918595184903) · wrapexams.com

Daily news summary**Change 7 Lunar Mission Water Exploration**

UPSC Civil Services · 22 August 2026 · Prelims and Mains

[Open on wrapexams.com](https://wrapexams.com)

WHY IN NEWS

- China announced details of its Chang'e-7 mission targeted at detecting water ice at the Moon's south pole.

WHAT IS THE MISSION?

- A robotic lunar exploration mission aimed at exploring the physical environment of the lunar south pole.
- Includes an orbiter, lander, rover, and a mini-flying detector to sample shadowed polar craters.

CORE OBJECTIVE AND TECHNOLOGIES

- Designed to confirm the presence and distribution of subsurface water ice in permanently shadowed regions.
- Tests autonomous robotic maneuvering to pave the way for an International Lunar Research Station (ILRS).

WHY IT MATTERS

- Water ice is essential for in-situ resource utilization, supplying oxygen and rocket propellant for deep space exploration.

KEY TERMS

- **Permanently Shadowed Regions:** Craters at lunar poles that never receive direct sunlight, preserving volatile compounds like water ice.

PAPERS

GS3

PRELIMS FACTS

- Lunar south pole craters contain **permanently shadowed regions** harboring volatile water ice.

KEY DATA

- **Target Region:** Lunar South Pole - High-priority space target due to expected reserves of subsurface water ice.
- **Space Agency:** CNSA (China National Space Administration) - Executes China's Chang'e lunar exploration program.

[Official source](#)

WRAP Exams · Write. Read. Analyse. Practice.

[Open on wrapexams.com](#)

ask@wrapexams.com · wrapexams.com · Revision brief. Confirm figures against the linked official source.