

SPHEREx Mission

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SPHEREx Mission Latest News

NASA's SPHEREx mission turned its infrared gaze on interstellar comet 3I/ATLAS recently, adding to the deep pool of information the agency has gathered on what is only the third such object to be discovered passing through our solar system.

About SPHEREx Mission

- It is a **NASA Astrophysics mission** launched on **March 11, 2025**.
- The **Spectro-Photometer for the History of the Universe, Epoch of Reionization and Ices Explorer (SPHEREx) telescope** is a **megaphone-shaped telescope**.
- It will provide an **all-sky spectral survey**.
- It will **survey the sky in optical as well as near-infrared light**, which, though not visible to the human eye, serves as a powerful tool for answering cosmic questions.
- Over a **two-year planned mission**, the SPHEREx Observatory will **collect data** on more than **450 million galaxies** along with more than **100 million stars in the Milky Way** in order to **explore the origins of**

the universe.

- With this capability, SPHEREx will **produce a three-dimensional map of the universe** unlike any other.
- Scientists will use this map **to answer big questions about the early universe**, the **history of galaxies**, and the **prevalence of life-sustaining molecules in planet-forming regions** of space.
- It also will **identify targets for more detailed study by future missions**, such as **NASA's James Webb Space Telescope and Wide Field Infrared Survey Telescope.**

Source: SCN

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