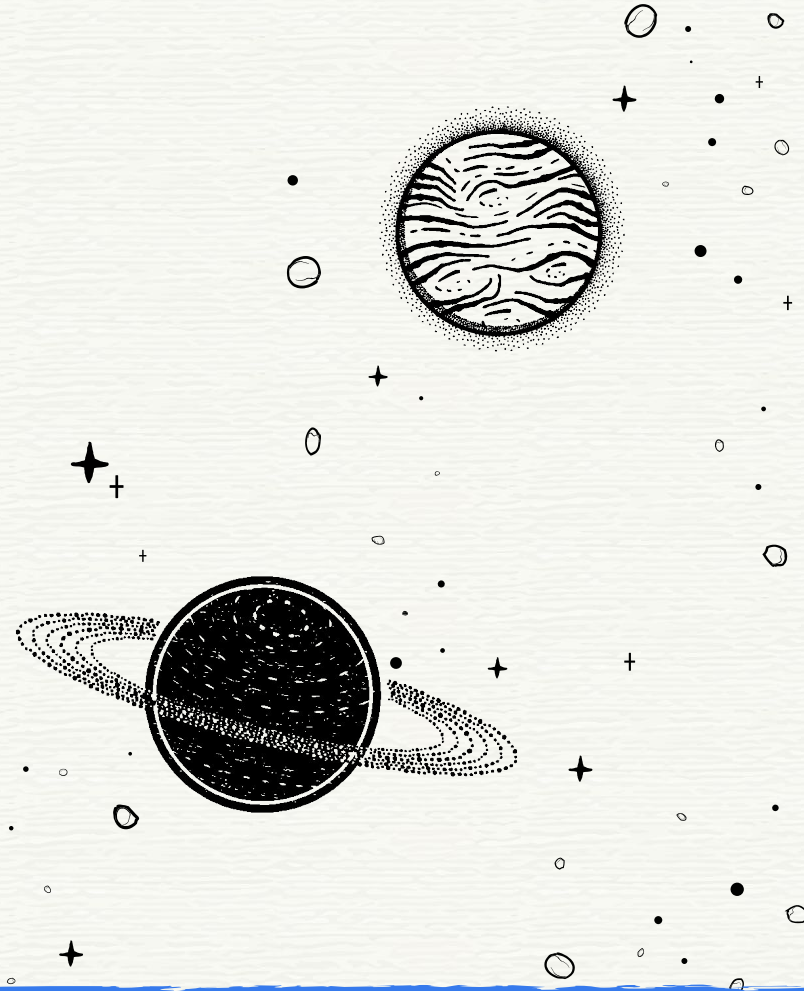




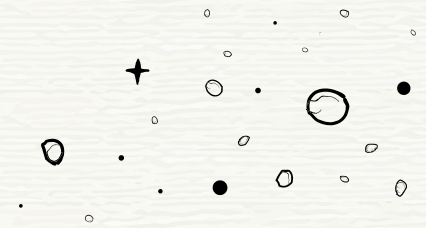
Exploring Comet C/2023 A3

(Tsuchinshan-ATLAS)





+ Quick Introductions



Welcome, everyone! Today we will explore **Comet C/2023 A3**.

Quick Facts:

- **Discovery Date:** January 2023
- **Orbital Period:** 80,000 years

Agenda Highlights:

- Discovering the comet.
- Live telescope session with Astrolink.
- Latest updates and why it's special.
- Interactive discussion.



+ What is a Comet?



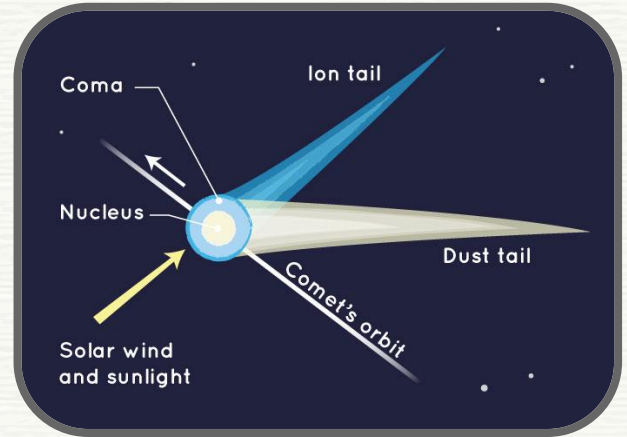
Definition

Comets are icy celestial bodies that release gas and dust, forming a glowing coma and tail when near the Sun



Key Characteristics

- Nucleus composed of ice, dust, and organic materials.
- Often called "cosmic snowballs."



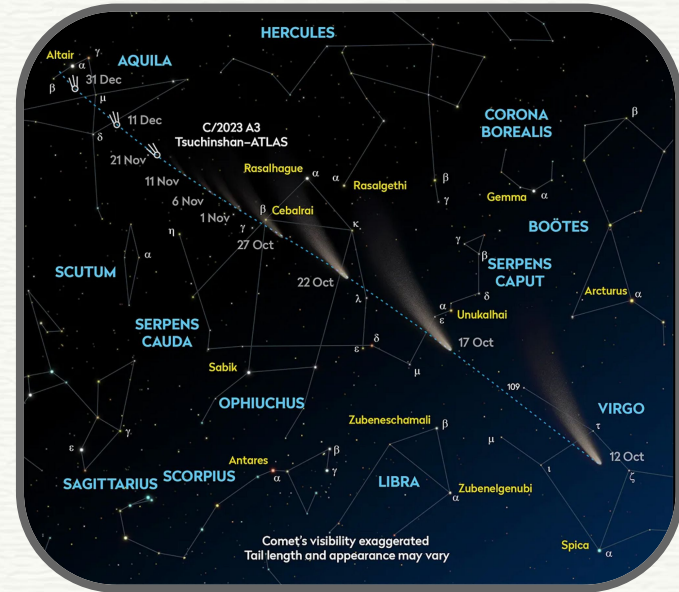
+ Discovery of C/2023 A3

When and Where:

- Discovered in January 2023.

Who Found It:

- Independently discovered by:
 - Tsuchinshan Observatory in China.
 - ATLAS project in Hawaii.





Introducing Astrolink⁺

What Is Astrolink?

- A platform providing remote access to professional telescopes worldwide.

Why We're Using It Today:

- Allows us to observe Comet C/2023 A3 live

Live Observation Session



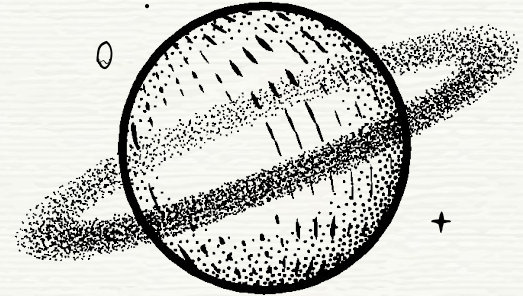
Fun Facts

Did You Know?

- Comets can sometimes develop two tails: one of dust and one of ionized gases.

Historical Context:

- Comets have been observed since ancient times and often interpreted as significant omens.



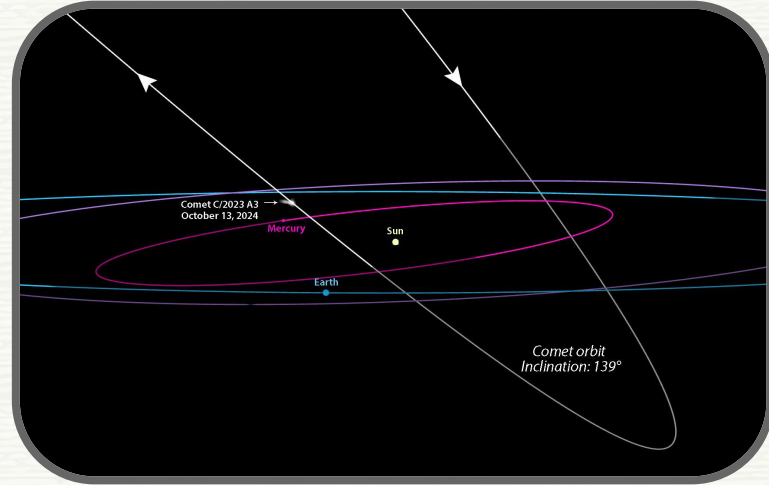
✦ The Comet's Journey

Orbit Overview:

- Highly elongated orbit originating from the distant Oort Cloud.

Current Status:

- Inbound toward the inner solar system.
- Brightness increasing as it nears the Sun.



⁺ Where Is It Now?

Current Position:

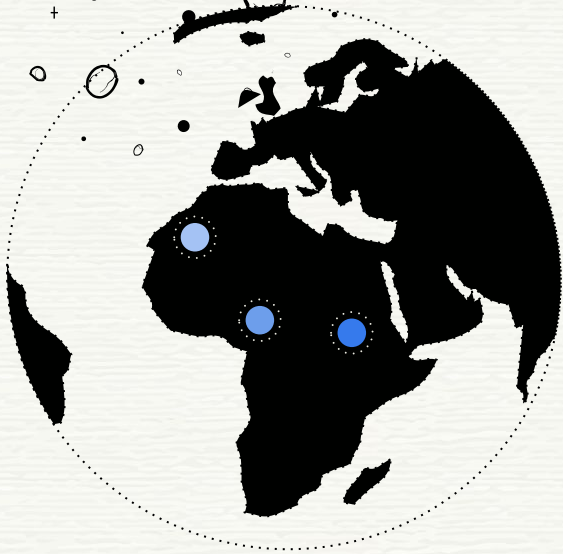
- Located in the constellation Serpens, at a distance of 84,336,965.9 kilometers from Earth.

Visibility:

- Observable with powerful telescopes like the one we're using.
- Not yet visible to the naked eye.



+ Predicting Its **Brightness** +



Exciting Possibility:

May become bright enough to see without a telescope in late 2024.

01

Expected Peak:

Anticipated around September-October 2024.

02

MERCURY

Comet brightness can be unpredictable, so stay tuned for updates.

03



Why This Comet Is Special

Scientific Opportunities:

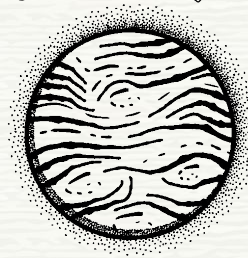
- Studying materials unchanged since the solar system's formation.

Potential Spectacle:

- Could provide a remarkable display in the night sky.

Club Involvement:

- A unique opportunity for us to engage in observations and contribute to citizen science.





OPEN DISCUSSION!
