Reminder: no food or drinks in the planetarium!

Astronomy 4 - *Solar System Astronomy*

Reminders

Instructor: Dr. Ann Marie Cody

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-Feel free to email me about course questions or astronomy in general.

Class website:

-*https://amcody.github.io/astro4*

Your one-stop shop for anything course related, including homework readings and exam practice material.

Lost and found:

-At the end of class, check to make sure you aren't leaving anything behind. Any items will be added to the Lost and Found box in back.

Let’s review a bit about the nightly motion of stars…

Earth’s rotation causes the Sun, Planets, Moon and stars to appear to move when viewed from Earth

Nightly Motion of the Stars

- **For stars (the Moon and planets) that appear in the southern sky: Stars first rise near the eastern horizon, move upward and toward the south, and then move down and set near the western horizon.**

Nightly Motion of the Stars

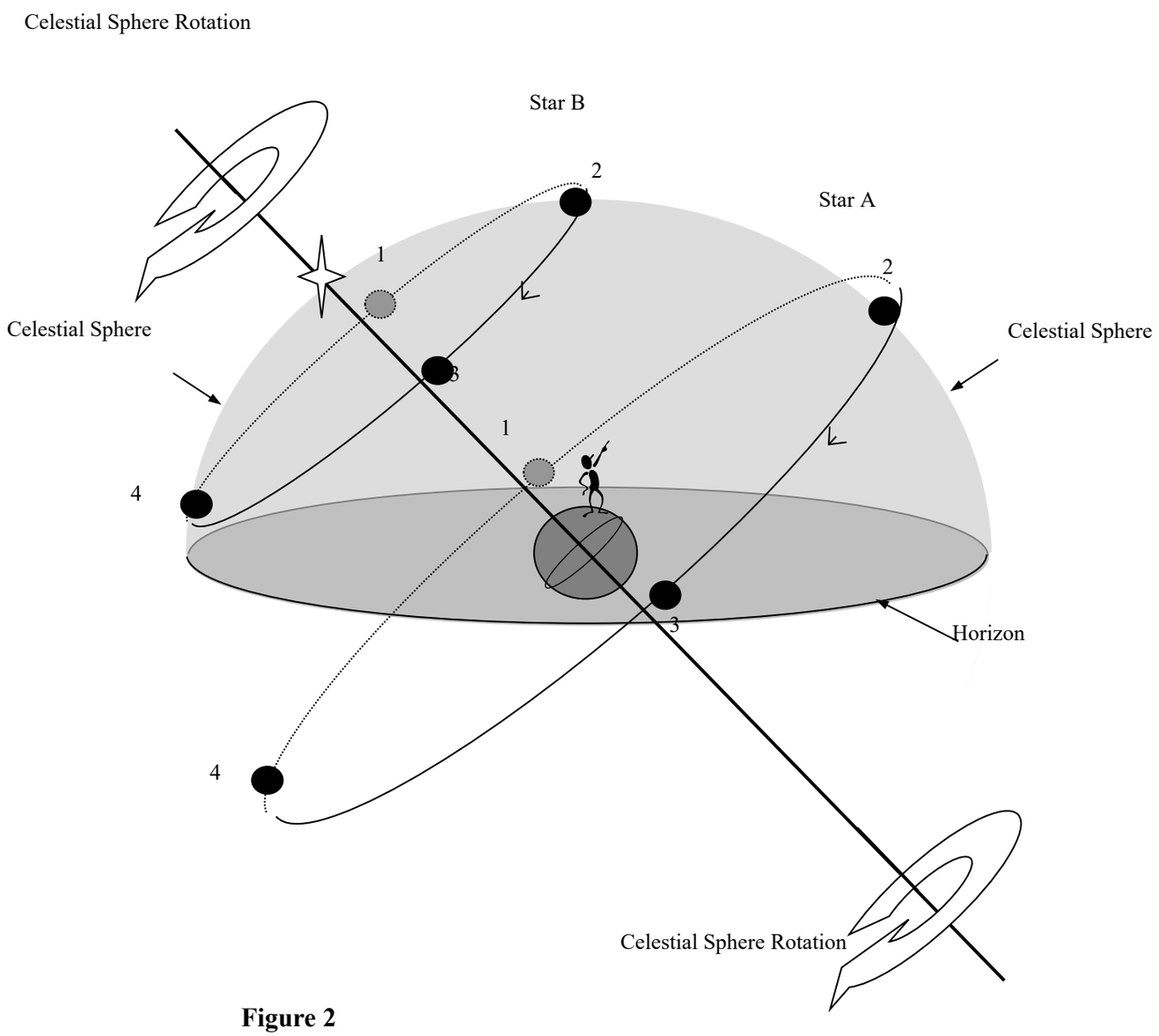
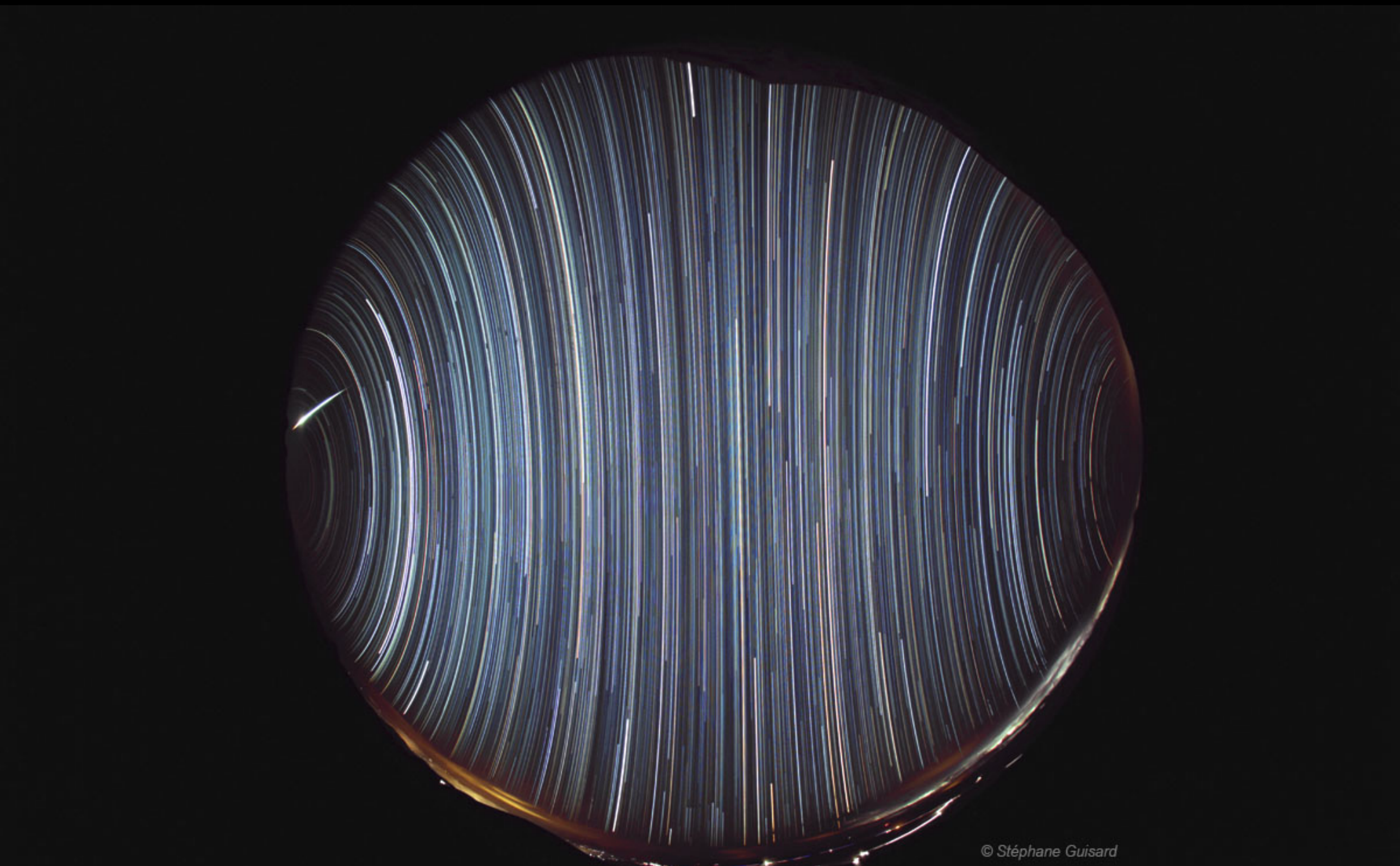


Figure 2

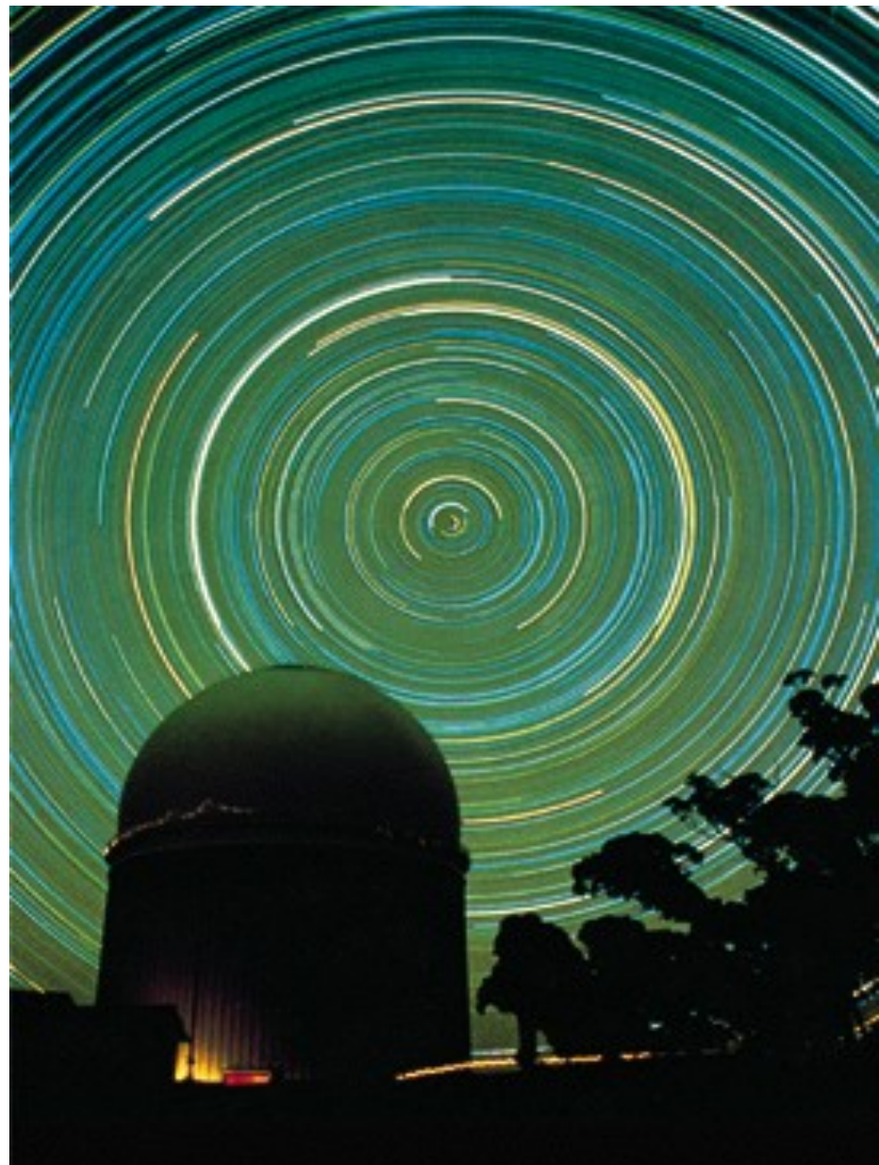
Star Trails at the Equator

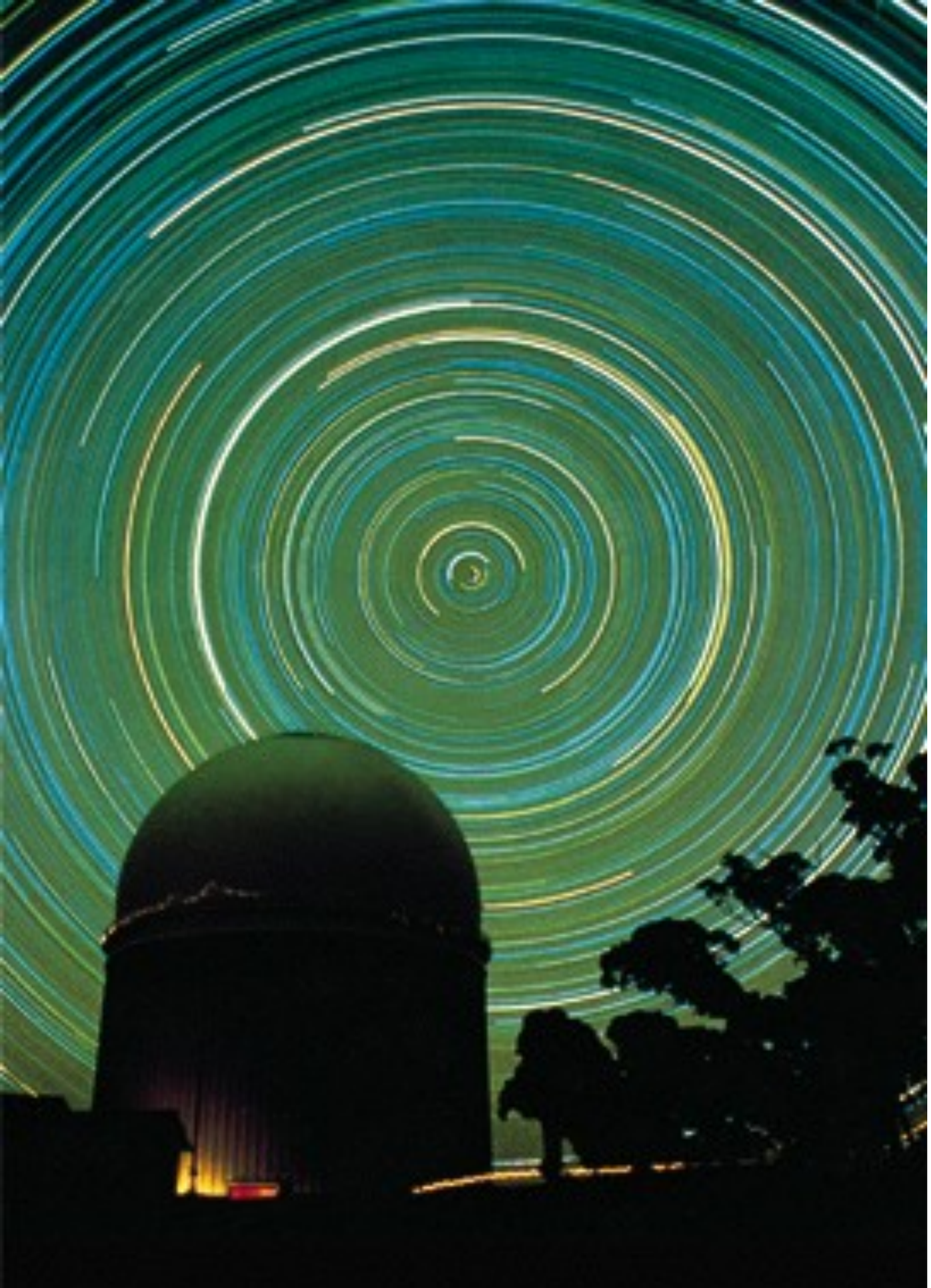


Rise from the east, go over head and set in west

Nightly Motion of the Stars

- **Looking North: Stars appear to move counter-clockwise around the stationary North Star (Polaris) – we call these circumpolar stars.**





How long did it take to get this picture?

[Planetarium demo]

Star trails from San Jose:
-looking south
-looking north

Star trails from the equator

Star trails from the north pole

Nightly Motion of the Stars

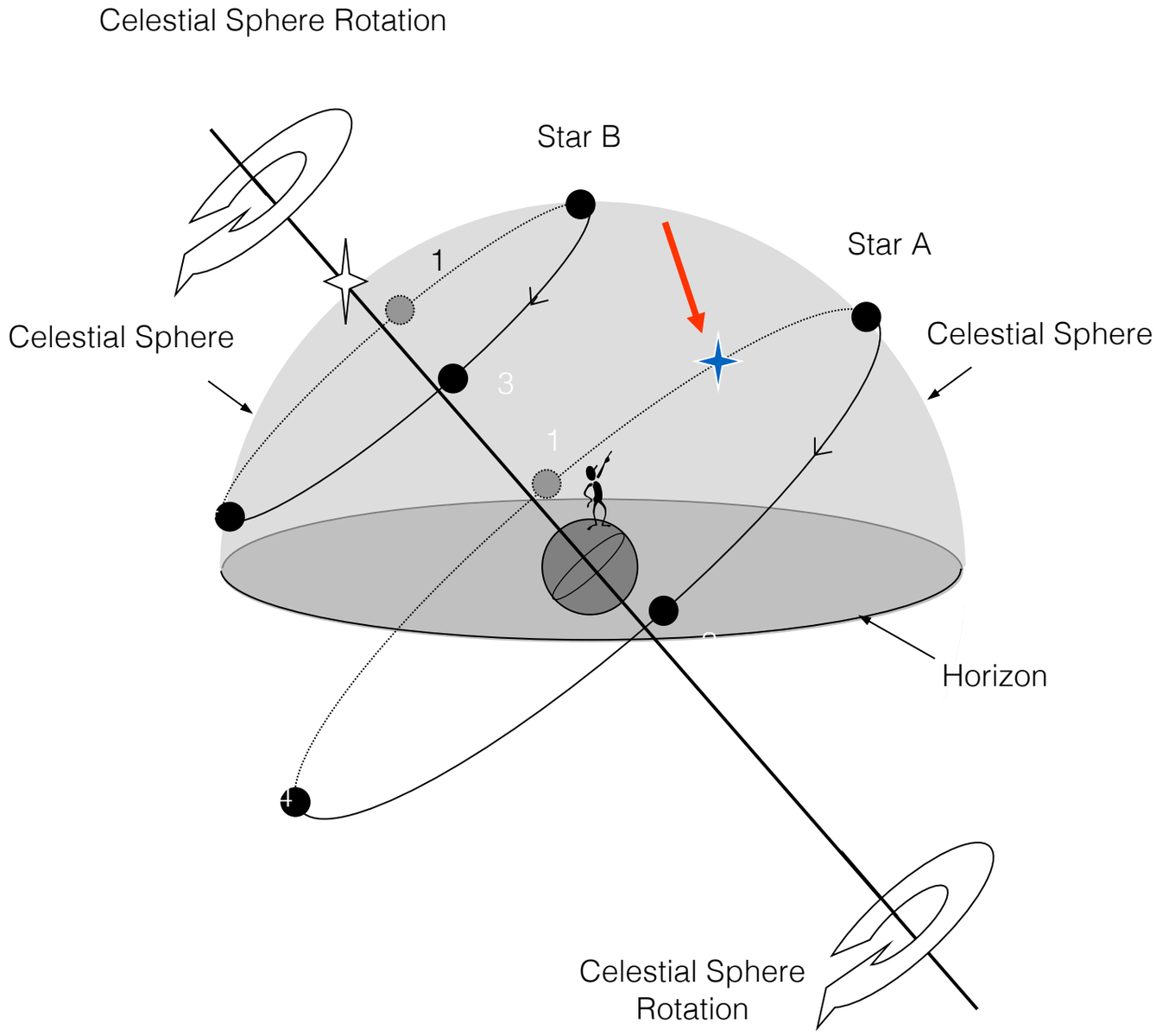
- Imagine looking toward the East as a star rises above your horizon - what does it do after that?

Imagine that from your current location you observe a star rising directly in the east. When this star reaches its highest position above the horizon, where will it be?

A. high in the northern sky
B. high in the southern sky
C. high in the western sky
D. directly overhead

Where would the observer look to see the star indicated by the arrow?

A. High in the Northeast
B. High in the Southeast
C. High in the Northwest
D. High in the Southwest



What direction is the observer facing in this picture?

What direction is the observer facing in this picture?

What direction is the camera facing in this picture?