

Astrophotography Is Fun

Robert Vanderbei

March 1, 2026

Montgomery Friends of Open Space

<https://vanderbei.princeton.edu>



Super Full Moon

June 14, 2022



Crescent Moon

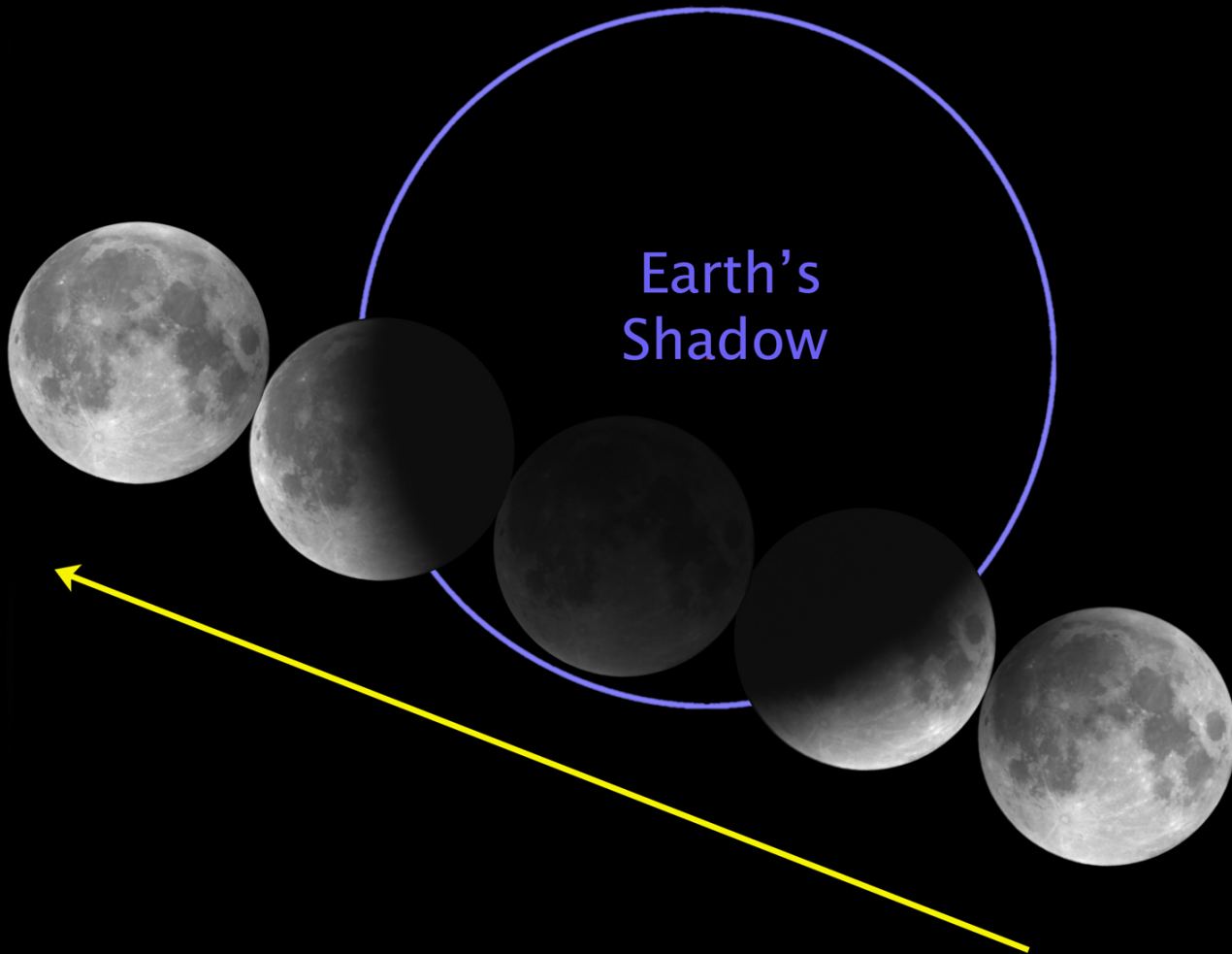
4:07pm Nov. 5, 2021



Is The Earth Flat?

A Picture's Worth a Thousand Words...





How Aristarchus measured the size of the Moon.

Lunar Eclipse

November 8, 2022



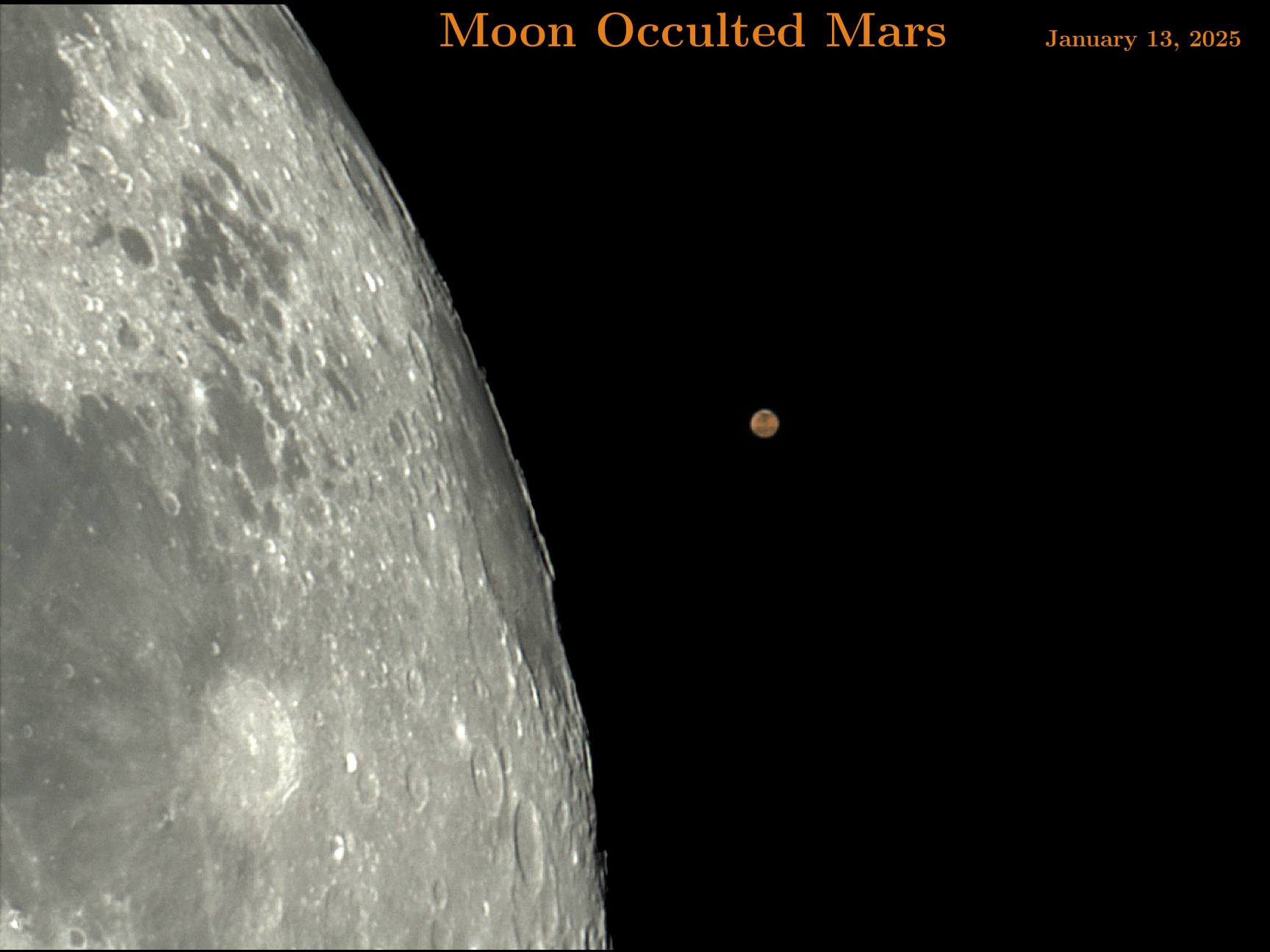
Lunar Eclipse

November 8, 2022



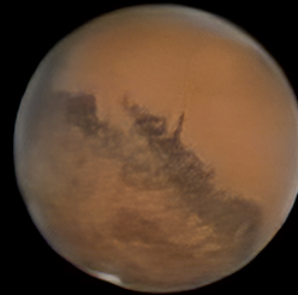
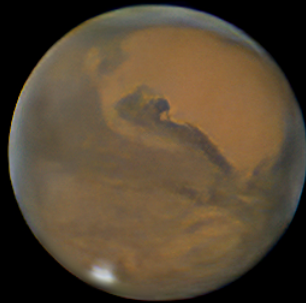
Moon Occulted Mars

January 13, 2025



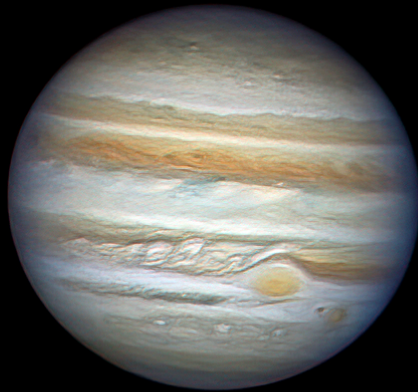
Mars

Oct. 6 and 18, 2020



Jupiter and Saturn

32 and 67 min



Comet 103P / Double Cluster

1.2 min / 7,460 and 7,640 ly



Looking Out Beyond Our Solar System

Orion Nebula

Star Forming Region

1,344 ly



Dumbbell Nebula

Dying Star

1,360 ly



Horsehead and Flame Nebulas

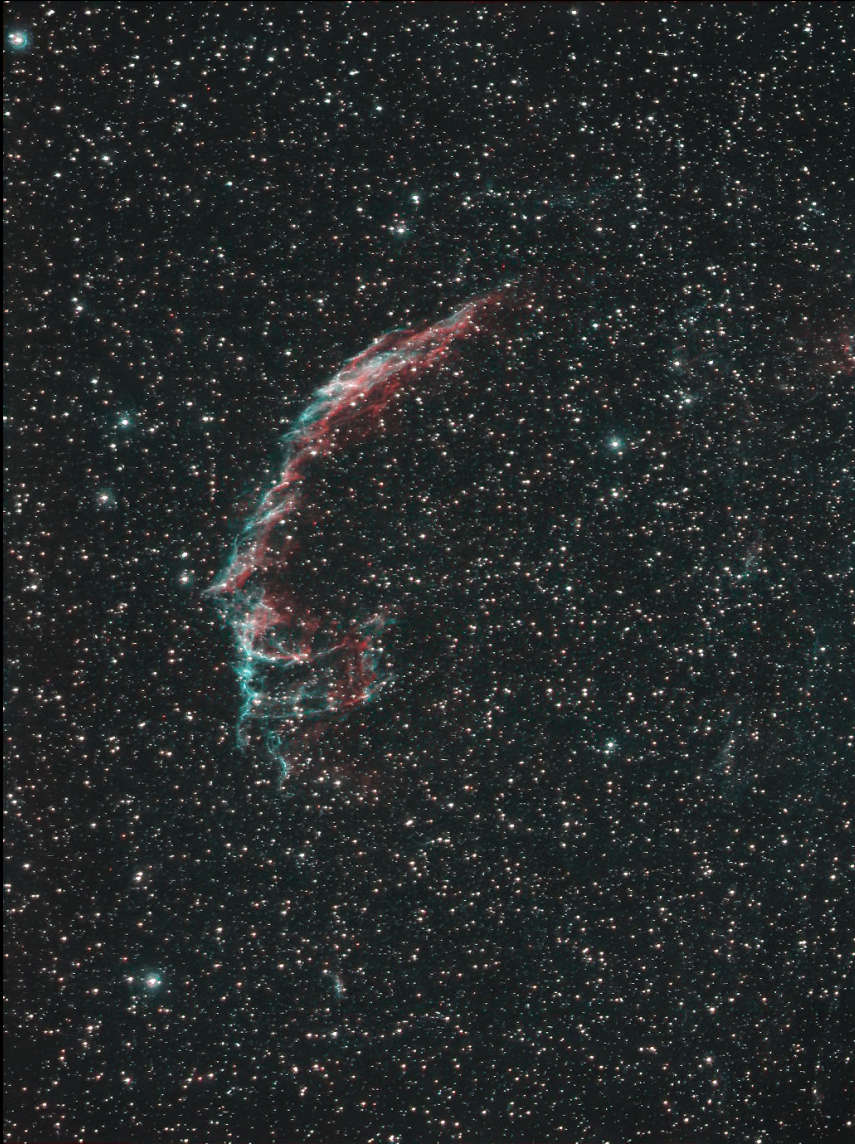
1,500 ly



Veil Nebula

Supernova Remnant

2,400 ly

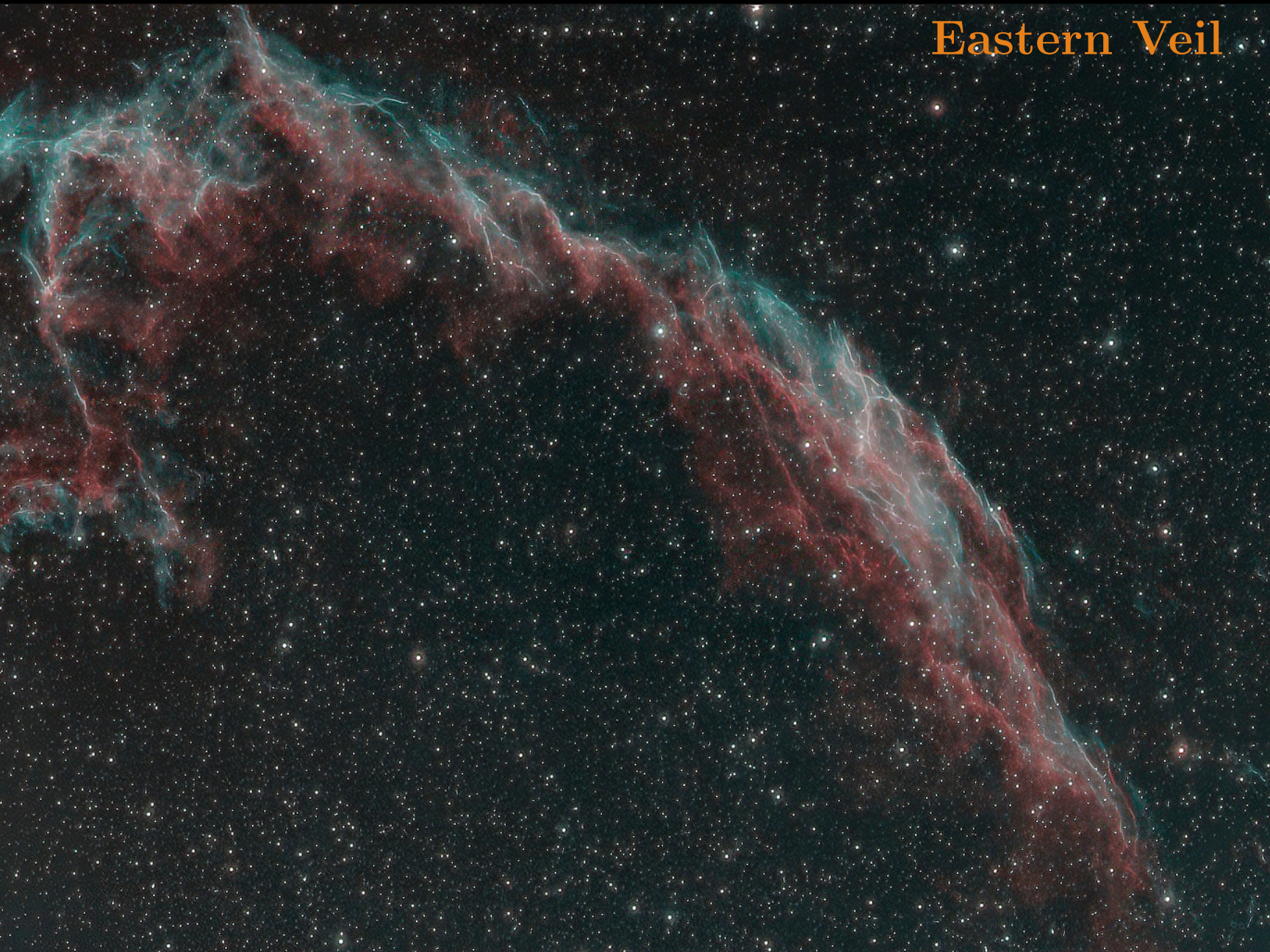


Western Veil

2,400 ly



Eastern Veil



Ring Nebula

2,567 ly



Crescent Nebula

5,000 ly



Jellyfish Nebula

5,000 ly



Rosette Nebula

5,200 ly



Eagle Nebula

5,700 ly



Crab Nebula

Mar. 26, 2019

6,500 ly



Crab Nebula

Oct. 27, 2006

6,500 ly



Bubble Nebula

$9,100 \pm 2,000$ ly



Globular Cluster M13

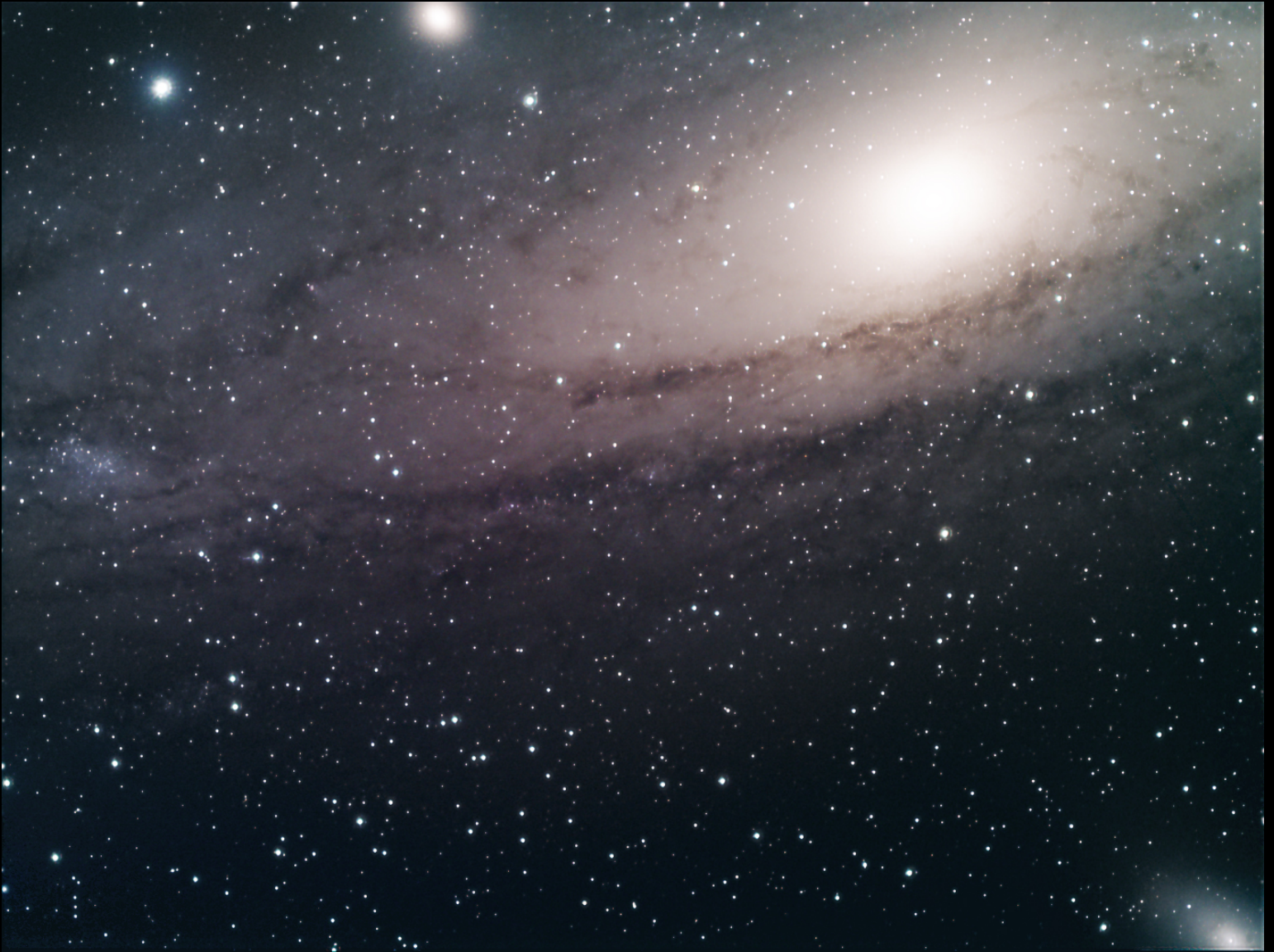
22,200 ly



Looking Out Beyond Our Milky Way

The Andromeda Galaxy

2,450,000 ly



M81 and M82

12,000,000 ly



The Whirlpool Galaxy

31,000,000 ly



The Whirlpool Galaxy

31,000,000 ly



The Whirlpool Galaxy

31,000,000 ly



The Leo Trio

32,000,000 ly



The Needle Galaxy (NGC 4565)

42,700,000 ly



Questions?

Temporary page!

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If you rerun the document (without altering it) this surplus page will go away, because \LaTeX now knows how many pages there are for this document.