Space Stations
The Chinese Space Station Tiangong has more great passes for us this week:
Nov. 27  5:41pm West North West, Altitude 20°; 5:43pm North, Altitude 40°; Magnitude -1.4
Nov. 28  6:17pm West North West, Altitude 20°; 6:19pm North East, Altitude 56°; Magnitude -2.1
Nov. 29  6:52pm West North West, Altitude 20°; 5:18pm North, Altitude 44°; Magnitude -1.6
Nov. 30  5:51pm West North West, Altitude 20°; 5:54pm North East, Altitude 79°; Magnitude -2.2
Dec. 2  5:26pm West North West, Altitude 20°; 5:28pm South South West, Altitude 67°; Mag. -1.8

Planets
Venus rises just after 4 a.m. as the Morning Star and is visible high in the east until it gets lost in the glare of the sunrise; it is, in fact, still visible after 6 a.m. Saturn is halfway across the sky towards the south as it gets dark with Jupiter blazing away in the east.

Planetariums
The Lawrence Hall of Science has some great planetarium shows to get you ready for the fall and our upcoming trips to Mars:
Traditions of the Autumn Sky shows you where to find the planets and other stellar objects visible from Berkeley.
Mission to the Red Planet recounts the history of our missions to Mars, from rovers to the intrepid helicopter named Ingenuity that has made some 66 flights since April 2021.
An upcoming show will be Traditions of the Winter Sky, which also explores different cultural perspectives and traditions.

Launches
The second launch of its Starship was quite exciting. SpaceX has the next one ready to roll onto the pad in Texas. You can watch the largest, most powerful rocket ever launched as it gets ready for the next test flight by searching for videos: spacex boca chica.
Telescopes @Berkeley Public Library!

We have **5 Orion StarBlast Astro Reflector Telescopes** that you can borrow! Each BPL Branch has a telescope, which may be borrowed for 1 week. Place a hold on it and then pick it up from your branch when it is ready. It is fairly easy to carry at 13 lbs., and stands about 2 feet tall.

Here’s what you get:

"A great compact grab-and-go telescope designed for entry-level and intermediate astronomy enthusiasts. Substantial 4.5" aperture and fast f/4 focal ratio provides bright, detailed views of solar system targets like the Moon and planets, as well as wide-field celestial objects like nebulae and star clusters."

Binoculars @Berkeley Public Library!

Thanks to a generous donation from the Cal Falcons program, we have **9 Vortex-Raptor binocular kits** that you can put on hold and pick up at the location of your choice.

Here’s what you get:

Porro prism performance in a mid-size, wide-angle design, the Raptors deliver a bright, crisp image with excellent color fidelity - even in low light conditions. With a wide range of interpupillary distance, they can easily be adjusted to fit anyone in the family, making them ideal for serious, hard-core youth hunters. The kit comes with a copy of The Sibley Field Guide to Birds of Western America and a pocket guide to local birds of the SF Bay Area. But it is also great for looking at planets, the moon and the stars!

Much of the information for this report comes from the wonderful web site, Heavens Above. You can enter your home city location and bookmark it for easy access: [http://www.heavens-above.com](http://www.heavens-above.com). Other stellar sources include: [http://www.space.com](http://www.space.com) and [http://www.nasa.gov](http://www.nasa.gov). And check [spacex.com](http://www.spacex.com) for launches.

This Sky Report is brought to you by Berkeley Public Library’s Cornerstones of Science, which is funded in part by the Silberstein Foundation. Cornerstones of Science is part of a multi-library initiative to bring STEM (Science, Technology, Engineering and Math) programming to patrons.

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