

SCHEDULE

ADULT ASTRONOMY CAMP

October 5-9, 2023

October 5 (Thursday)

100th anniversary of Hubble's observation of Cepheid variable ("V1") in Andromeda

Local Sidereal Time at midnight = 00:35:13

2:30 pm	meet at Aloft Hotel (Tactic room) welcoming, refreshments, distribute materials "Wide Eyes" Mirror Lab video
3:30	tour the UA Mirror Laboratory
4:15	drive to Mt. Lemmon
6:00	arrive at summit of Mt. Lemmon quick drive around site, move into dorms, dress for the outdoors
6:04	sunset watch twilight, first stars, and planets
6:30	dinner (Minnesota building)
6:53	Io's shadow starts transit of Jupiter, ending 9 pm Ganymede transits Jupiter's south pole
7:24	end of astronomical twilight
7:30	Io starts transit of Jupiter, ending 9:30 pm
7:30	drive to Mt. Bigelow 61" telescope for nighttime observing
7:40	orbital passage of ISS (V=-1; 16 deg altitude; W to SSW)
8:15	get dark adapted to "Phantom of the Opera" (musical selection)
8:30	observing options: <div style="margin-left: 40px;"> <u>telescope:</u> eyepiece observing & astrophotography <u>outdoors:</u> constellation hunting & small telescopes <u>warm room:</u> image processing & Internet surfing </div>
10:49	moonrise
12:00 am	<u>snack</u> ; continued observing if desired
1:30	Great Red Spot rises on Jupiter
5	start of astronomical twilight
6:21	sunrise

October 6 (Friday)
Last Quarter Moon

Local Sidereal Time at midnight = 00:39:09

6:21 am	sunrise
up early? 11	on-your-own breakfast in Learning Center brunch
12 pm 1	tour of the mountain imaging the Sun in hydrogen-alpha & continuum light “safe sun”: eclipse glasses, welders glass, pinholes see the daytime solar spectrum
2	<i>talks and activities in Learning Center and Minnesota building</i> Examples: guest speakers on modern topics explore a meteorite collection experiment with light & spectroscopy indoor planetarium learn and conduct digital imaging (astrophotography) hike our Solar System to scale classification of stars, galaxies, exoplanets, etc.
5:30	dinner (Minnesota building)
6:02	sunset
6:30	drive to Mt. Bigelow 61" telescope for nighttime observing
6:51	orbital passage of ISS (V=-1.9; 31 deg altitude; WNW to SSE)
7:23	end of astronomical twilight
8:15	get dark adapted to ... (musical selection)
7:30	observing options:
9:30	Great Red Spot rises on Jupiter
11:46	moonrise
12:00 am	<u>snack</u> ; bedtime or continued observing
5	start of astronomical twilight
6:21	sunrise

October 7 (Saturday)

Local Sidereal Time at midnight = 00:43:06

6:21 am	sunrise
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up early? 11	on-your-own breakfast in Learning Center brunch
12 pm	<i>talks and activities in Learning Center and Minnesota building</i> Examples: <ul style="list-style-type: none"> guest speakers on modern topics explore a meteorite collection experiment with light & spectroscopy indoor planetarium learn and conduct digital imaging (astrophotography) hike our Solar System to scale classification of stars, galaxies, exoplanets, etc.
5:30	dinner (Minnesota building)
6:01	sunset
6:30	drive to Mt. Bigelow 61" telescope for nighttime observing
7:15	get dark adapted to ...
7:22	end of astronomical twilight
7:30	observing options:
0:44 am	moonrise <u>snack</u> ; bedtime or continued observing
2	Europa disappears behind Jupiter's shadow
3	Great Red Spot rises on Jupiter
5:01	start of astronomical twilight
6:22	sunrise

October 8 (Sunday)

Local Sidereal Time at midnight = 00:47:02

6:22 am	sunrise
up early? 11	on-your-own breakfast in Learning Center brunch
12 pm	<i>talks and activities in Learning Center and Minnesota building</i> Examples: <ul style="list-style-type: none"> guest speakers on modern topics explore a meteorite collection experiment with light & spectroscopy indoor planetarium learn and conduct digital imaging (astrophotography) hike our Solar System to scale classification of stars, galaxies, exoplanets, etc.
5	free time
5:30	dinner (Minnesota building)
6	sunset

6:30	drive to Mt. Bigelow 61" telescope for nighttime observing
7:15	get dark adapted to ... (musical selection)
7:21	end of astronomical twilight
7:30	observing options:
12 am	<u>snack</u> ; bedtime or continued observing
1:42	moonrise
5:02	start of astronomical twilight
6:23	sunrise

October 9 (Monday)
Moon at Perigee (251,920 miles)

Local Sidereal Time at midnight = 00:50:59

6:23 am	sunrise
up early? 11	on-your-own breakfast in Learning Center brunch; pack up your gear; group picture
12 pm	leave Mt. Lemmon for Tucson
1:30	arrive in Tucson drive people to their hotels, etc.