

# Wits Anglo American Digital Dome

## October 2023

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### **What's Happening at the Wits Anglo American Digital Dome**

The Phase 2 building on the north side is on schedule. The interior structures are currently being put in place.



## Moon Phases

Last Quarter: 6 Oct  
New Moon: 14 Oct  
First Quarter: 22 Oct  
Full Moon: 28 Oct

## Sunrise/set and Moonrise/set for Johannesburg – October 2023

Date	Day	Sunrise		Sunset		Moonrise		Moonset	
		h	m	h	m	h	m	h	m
1	Sun	05:48	18:08	20:30	07:02				
2	Mon	05:47	18:08	21:35	07:41				
3	Tue	05:46	18:09	22:38	08:23				
4	Wed	05:45	18:09	23:40	09:10				
5	Thu	05:44	18:09	--:--	10:01				
6	Fri	05:43	18:10	00:36	10:55				
7	Sat	05:42	18:10	01:27	11:51				
8	Sun	05:40	18:11	02:12	12:48				
9	Mon	05:39	18:11	02:51	13:43				
10	Tue	05:38	18:12	03:25	14:37				
11	Wed	05:37	18:12	03:56	15:29				
12	Thu	05:36	18:13	04:25	16:21				
13	Fri	05:35	18:13	04:53	17:13				
14	Sat	05:34	18:14	05:22	18:06				
15	Sun	05:33	18:14	05:51	19:01				
16	Mon	05:32	18:15	06:24	19:58				
17	Tue	05:31	18:16	07:00	20:58				
18	Wed	05:31	18:16	07:42	22:01				
19	Thu	05:30	18:17	08:31	23:03				
20	Fri	05:29	18:17	09:27	--:--				
21	Sat	05:28	18:18	10:30	00:03				
22	Sun	05:27	18:18	11:36	00:58				
23	Mon	05:26	18:19	12:44	01:47				
24	Tue	05:25	18:19	13:51	02:30				
25	Wed	05:24	18:20	14:56	03:09				
26	Thu	05:23	18:21	16:00	03:45				
27	Fri	05:23	18:21	17:04	04:20				
28	Sat	05:22	18:22	18:08	04:55				
29	Sun	05:21	18:23	19:14	05:32				
30	Mon	05:20	18:23	20:19	06:13				
31	Tue	05:20	18:24	21:23	06:58				

*Data calculated using MICA, US Naval Observatory*

## Astronomical Events – October 2023

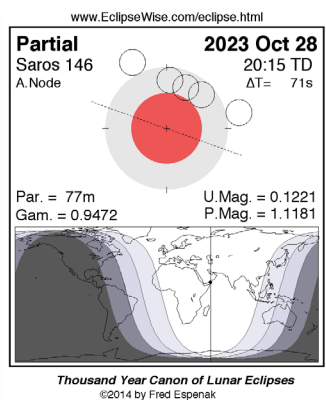
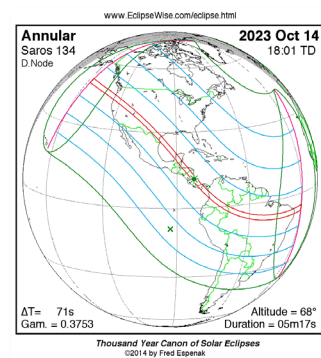
Date	Time	Astronomical Event
2	05:16	Jupiter 3.4°S of Moon
3	06:25	Pleiades 1.1°N of Moon
6	15:48	<b>LAST QUARTER MOON</b>
7	12:23	Pollux 1.4°N of Moon
9	08:08	Venus 2.3°S of Regulus
10	05:41	Moon at Apogee: 405426 km
	10:41	Regulus 4.2°S of Moon
14	19:55	<b>NEW MOON</b>
	19:59	Annular Solar Eclipse; mag=0.952 ( <b>Not Visible</b> from South Africa)
15	03:11	Moon at Descending Node
18	15:17	Antares 0.9°S of Moon
20	7	Mercury at Superior Conjunction
22	2	Orionid Meteor Shower
	05:29	<b>FIRST QUARTER MOON</b>
24	0	Venus at Greatest Elong: 46.4°W
	09:52	Saturn 2.8°N of Moon
26	04:53	Moon at Perigee: 364873 km
28	05:14	Moon at Ascending Node
	22:14	Partial Lunar Eclipse; mag=0.122 (Visible from South Africa)
	22:24	<b>FULL MOON</b>
29	10:10	Jupiter 3.1°S of Moon
30	16:30	Pleiades 1.1°N of Moon

Planetary Ephemeris Data Courtesy of Fred Espenak, [www.Astropixels.com](http://www.Astropixels.com)

## Eclipses

Date: 14 October 2023  
 Type of Eclipse: Annular Solar Eclipse (**NOT** visible from South Africa)  
 Time (SAST): 7:03 p.m. - 10:55 p.m.  
 Visible from: North America, Central America, South America  
 For details see: [Mr Eclipse](#)

Date: 28 October 2023  
 Type of Eclipse: Partial Lunar Eclipse  
 Time (SAST): 8:01 p.m. - 00:26 a.m.  
 Visible from: Eastern Americas, Europe, Africa, Asia, Australia  
 For details see: [Mr Eclipse](#)



## Naked Eye Planets Rise and Set Times for Johannesburg

Date	Mercury			Venus			Mars		
	Rise h m	Transit h m	Set h m	Rise h m	Transit h m	Set h m	Rise h m	Transit h m	Set h m
01-Oct	05:14	11:09	17:04	03:29	09:09	14:50	06:34	12:53	19:12
08-Oct	05:21	11:26	17:31	03:22	09:04	14:47	06:21	12:43	19:06
15-Oct	05:28	11:43	17:58	03:16	09:01	14:47	06:07	12:33	19:00
22-Oct	05:34	11:59	18:24	03:11	09:00	14:49	05:55	12:24	18:54
29-Oct	05:40	12:14	18:49	03:06	09:00	14:53	05:42	12:15	18:49

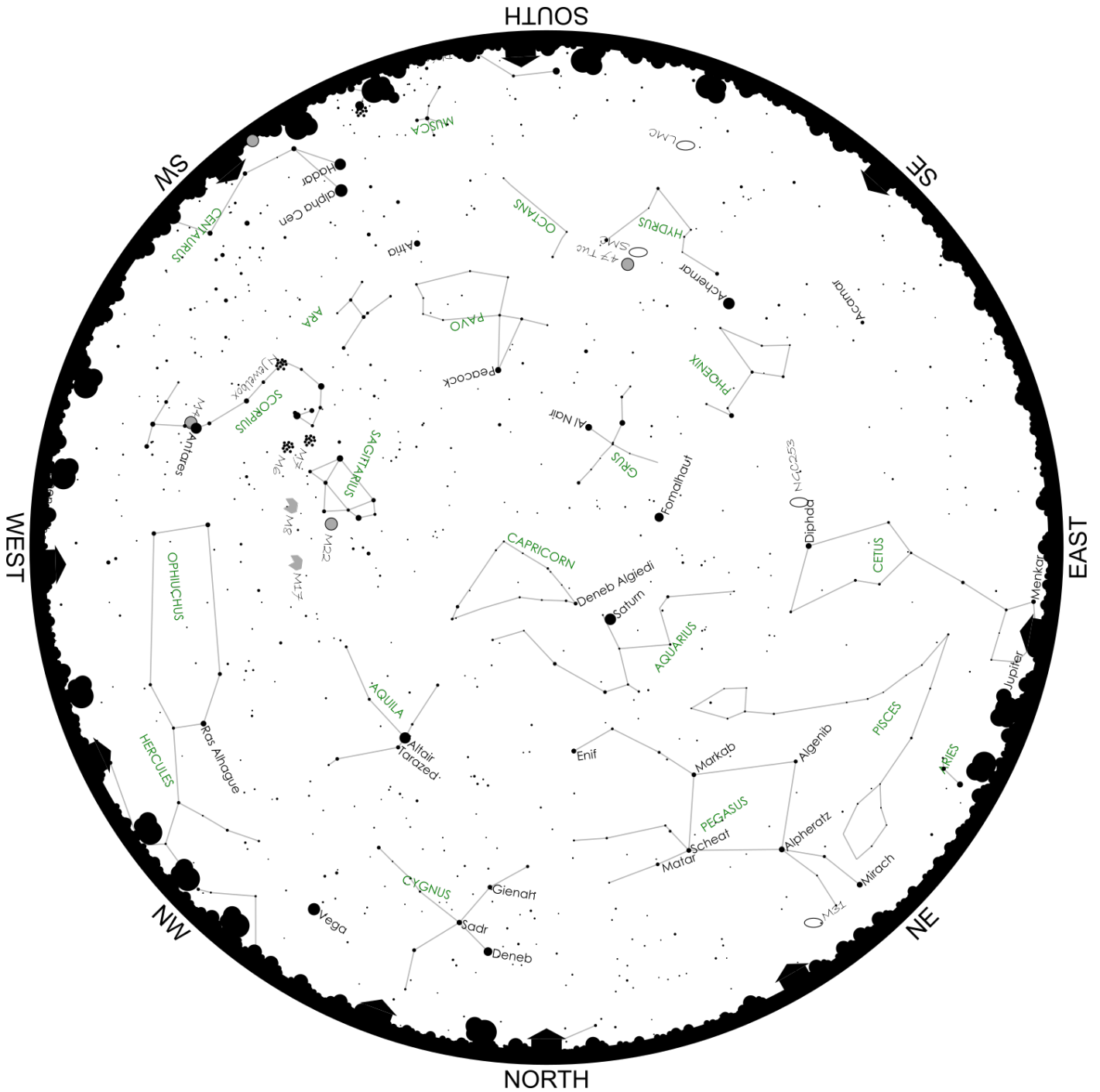
Date	Jupiter			Saturn		
	Rise h m	Transit h m	Set h m	Rise h m	Transit h m	Set h m
01-Oct	20:43	02:20	07:51	15:16	21:43	04:14
08-Oct	20:13	01:49	07:22	14:47	21:14	03:45
15-Oct	19:42	01:19	06:52	14:19	20:46	03:17
22-Oct	19:10	00:48	06:21	13:50	20:18	02:49
29-Oct	18:39	00:17	05:51	13:22	19:50	02:21

*Data calculated using MICA, US Naval Observatory*

# October 2023

Early Oct – 9 p.m.

Late Oct – 7 p.m.



## Orionids Meteor Shower (008 ORI)

This shower is active from 2 October – 7 November, with the maximum on the morning of 22 October. There is a prediction of 20+ meteors per hour. The first Quarter moon sets just after midnight make the shower more observable. Look towards the north on the evening of 22 October after midnight in the constellation of Orion.

Looking North – morning of 23 October at 2 a.m.



*Image: Stellarium*

Enjoy

Clear skies  
Constant