



Wits Planetarium

August 2021

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Shows

Shows will resume when permitted by the University Occupational Health and Safety.

Moon Phases

New Moon:	8 Aug
First Quarter:	15 Aug
Full Moon:	22 Aug
Last Quarter:	30 Aug

Sunrise/set and Moonrise/set for Johannesburg – August 2021

Date	Day	Sunrise		Sunset		Moonrise		Moonset	
		h	m	h	m	h	m	h	m
1	Sun	06:47	17:42	00:43	12:02				
2	Mon	06:46	17:42	01:36	12:38				
3	Tue	06:46	17:43	02:30	13:17				
4	Wed	06:45	17:43	03:24	14:01				
5	Thu	06:44	17:44	04:18	14:51				
6	Fri	06:44	17:44	05:11	15:44				
7	Sat	06:43	17:45	06:00	16:42				
8	Sun	06:42	17:45	06:46	17:41				
9	Mon	06:41	17:46	07:28	18:41				
10	Tue	06:41	17:46	08:07	19:41				
11	Wed	06:40	17:46	08:43	20:41				
12	Thu	06:39	17:47	09:18	21:41				
13	Fri	06:38	17:47	09:53	22:41				
14	Sat	06:38	17:48	10:30	23:44				
15	Sun	06:37	17:48	11:10	--:--				
16	Mon	06:36	17:49	11:54	00:49				
17	Tue	06:35	17:49	12:44	01:55				
18	Wed	06:34	17:50	13:41	03:01				
19	Thu	06:33	17:50	14:43	04:04				
20	Fri	06:32	17:51	15:48	05:02				
21	Sat	06:31	17:51	16:52	05:53				
22	Sun	06:30	17:51	17:55	06:38				
23	Mon	06:29	17:52	18:55	07:17				
24	Tue	06:28	17:52	19:52	07:52				
25	Wed	06:28	17:53	20:47	08:25				
26	Thu	06:27	17:53	21:40	08:56				
27	Fri	06:26	17:54	22:33	09:27				
28	Sat	06:25	17:54	23:26	10:00				
29	Sun	06:24	17:54	--:--	10:34				
30	Mon	06:22	17:55	00:20	11:12				
31	Tue	06:21	17:55	01:15	11:54				

Data calculated using MICA, US Naval Observatory

Astronomical Events – August 2021

Date	Day	Time	Event
1	Sun		Venus: 33.1° E
		16:00	Mercury Superior Conj.
2	Mon	07:24	Saturn Opposition
		09:35	Moon Apogee: 404,400 km
3	Tue	04:51	Moon Ascending Node
5	Thu	18:46	Moon North Dec.: 25.7° N
8	Sun	15:50	New Moon
11	Wed	09:00	Moon close to Venus: 4.4° S

Date	Day	Time	Event
12	Thu	21:11	Perseids Shower: ZHR = 90 (Best in Northern Hemisphere)
15	Sun	17:20	First Quarter
16	Mon	18:04	Moon Descending Node
17	Tue	11:23	Moon Perigee: 369,100 km
19	Thu	00:24	Moon South Dec.: 25.8° S
		05:03	Mercury near Mars: 0.1° N
20	Fri	01:05	Jupiter Opposition
21	Sat	00:19	Moon close to Saturn: 3.8° N
22	Sun	06:52	Moon close to Jupiter: 4.1° N
		14:02	Full Moon
30	Mon	04:22	Moon Apogee: 404,100 km
		07:13	Moon Ascending Node
		09:13	Last Quarter

Sky Events Calendar by Fred Espenak and Sumit Dutta (NASA's GSFC)

Naked Eye Planets Rise and Set Times

Date	Mercury			Venus			Mars		
	Rise	Transit	Set	Rise	Transit	Set	Rise	Transit	Set
	h m	h m	h m	h m	h m	h m	h m	h m	h m
01-Aug	06:52	12:15	17:39	08:38	14:24	20:11	08:05	13:43	19:21
06-Aug	07:07	12:37	18:07	08:35	14:26	20:18	07:54	13:35	19:16
11-Aug	07:18	12:55	18:32	08:32	14:28	20:25	07:44	13:27	19:11
16-Aug	07:25	13:09	18:53	08:29	14:30	20:32	07:34	13:19	19:05
21-Aug	07:29	13:20	19:12	08:25	14:31	20:38	07:23	13:11	19:00
26-Aug	07:30	13:28	19:27	08:21	14:33	20:45	07:13	13:04	18:54
31-Aug	07:29	13:34	19:40	08:18	14:34	20:52	07:03	12:56	18:49

Date	Jupiter			Saturn		
	Rise	Transit	Set	Rise	Transit	Set
	h m	h m	h m	h m	h m	h m
01-Aug	19:06	01:37	08:04	17:37	00:21	07:00
06-Aug	18:44	01:15	07:43	17:16	23:55	06:39
11-Aug	18:21	00:53	07:21	16:54	23:34	06:18
16-Aug	17:58	00:31	06:59	16:33	23:13	05:57
21-Aug	17:36	00:09	06:38	16:12	22:52	05:36
26-Aug	17:13	23:42	06:16	15:51	22:31	05:16
31-Aug	16:51	23:20	05:54	15:30	22:10	04:55

Data calculated using MICA, US Naval Observatory

Transit = "passage of a celestial body across an observer's meridian above the celestial pole"

Jupiter and Saturn
At 8 p.m on 17 August

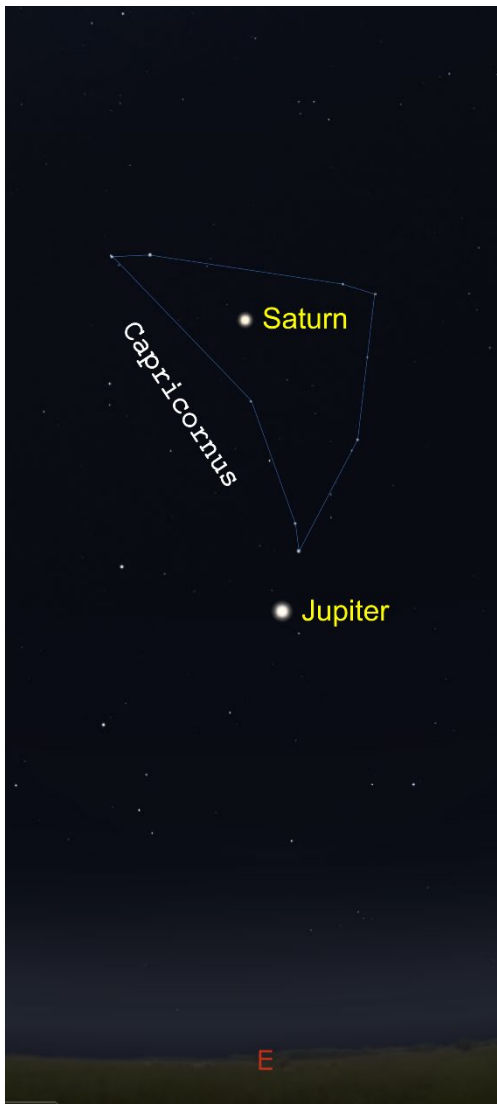


Image: Stellarium

Enjoy

Clear skies
Constant