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Shows

We received permission from the University that we can run public shows. Details will be placed on our website [<https://www.planetarium.co.za/>] soon.

Moon Phases

Full Moon: 1 Oct
 Last Quarter: 10 Oct
 New Moon: 16 Oct
 First Quarter: 23 Oct
 Full Moon: 31 Oct

Sunrise/set and Moonrise/set for Johannesburg – October 2020

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

Date	Day	Sunrise	Sunset	Moonrise	Moonset
		h m	h m	h m	h m
19	Mon	05:29	18:17	07:33	21:25
20	Tue	05:28	18:18	08:24	22:32
21	Wed	05:27	18:18	09:18	23:34
22	Thu	05:26	18:19	10:16	--:--
23	Fri	05:25	18:19	11:15	00:30
24	Sat	05:24	18:20	12:13	01:20
25	Sun	05:24	18:21	13:10	02:03
26	Mon	05:23	18:21	14:05	02:41
27	Tue	05:22	18:22	14:58	03:16
28	Wed	05:21	18:22	15:49	03:47
29	Thu	05:20	18:23	16:40	04:18
30	Fri	05:20	18:24	17:30	04:48
31	Sat	05:19	18:24	18:22	05:18

Data calculated using MICA, US Naval Observatory

Astronomical Events – October 2020

Date	Day	Time	Event
1	Thu		Venus: 40.3° W
		17:59	Mercury Elongation: 25.8° E
		23:05	Full Moon
2	Fri	19:09	Venus near Regulus: 0.1° S
3	Sat	05:21	Moon near Mars: 0.8° N
		19:22	Moon Apogee: 406,300 km
8	Thu	02:29	Moon Ascending Node
9	Fri	15:07	Moon North Dec.: 24.6° N
10	Sat	02:39	Last Quarter
11	Sun	14:27	Moon close to Beehive: 2.2° S
14	Wed	01:10	Mars Opposition
		01:57	Moon close to Venus: 4.4° S
16	Fri	21:31	New Moon
17	Sat	01:46	Moon Perigee: 356,900 km
20	Tue	17:53	Moon Descending Node
21	Wed	07:21	Orionid Shower: ZHR = 20
22	Thu	04:00	Moon South Dec.: 24.7° S
		19:10	Moon close to Jupiter: 2.1° N
23	Fri	05:49	Moon close to Saturn: 2.7° N
		15:23	First Quarter
25	Sun	20:14	Mercury Inferior Conj.
29	Thu	18:13	Moon close to Mars: 3.3° N
30	Fri	20:46	Moon Apogee: 406,400 km
31	Sat	16:49	Full Moon
		18:05	Uranus Opposition

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

Orionids

Active from: 2 October - 7 November

Maximum: 21 October

Constellation: Orion



"Orion", plate 29 in Urania's Mirror, a set of constellation cards published in London c.1825. Source image Wikipedia

The crescent moon will set before midnight, giving a darker sky to view this meteor shower. It's expected to deliver 20+ meteors per hour. Best time will be from midnight to 4:00 a.m. The stream is well placed above the horizon. The Orionids are associated with comet 1P/Halley. As a comet orbits the Sun, it releases dust. Earth passes through these dust streams every year and, when this happens, the number of meteor trails seen increases.

Orionids as on 21 October 2020 at 2:00 a.m.



Image: Stellarium

Enjoy

Clear skies

Constant