

2019 Astronomy Calendar

Black Canyon Astronomical Society

Meeting & Public Event Dates

March 4 update (subject to change)

Dates of lunar phases & other astronomical events are referenced to Universal Time (UTC):

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours

BCAS – Black Canyon Astronomical Society meeting (Montrose or Delta)

BLCA – night sky event at Black Canyon of the Gunnison N. P.

(GMO) – W. CO Astronomy Club event at Grand Mesa Observatory

Data: NASA, U. S. Naval Observatory, Stellarium, and other sources



BCAS – meeting w/ location

January, 2019

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1 New Year's	2	3 Earth @ Perihelion Quadrantid Meteors	4	5
6 Partial Solar Eclipse N. Pacific Venus @ W. Elongation	7	8	9	10	11	12
13	14 	15 BCAS Delta	16	17	18	19
20 Total Lunar Eclipse W Hemisphere	21 MLK Day (US)	22 Venus/ Jupiter (2°)	23	24	25	26
27 	28	29	30	31	1	2

Eclipse Season!






BCAS – meeting w/ location

February, 2019

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27 	28	29	30	31	1	2
3	4 	5	6	7	8	9
10	11	12 	13 Mars/ Uranus (1°)	14	15	16
17	18 Presidents' Day (US) Venus/ Saturn (1°)	 19 BCAS Montrose	20	21	22	23
24	25	26 	27 Mercury @ E. Elongation	28	1	2





BCAS – meeting w/ location
 BLCA – Black Canyon N. P. event

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours

March, 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
24	25	26 	27	28	1	2 BLCA
3	4	5	6 	7	8	9
10 DST begins (US)	11	12	13	14 	15	16
17	18	19 BCAS Delta	20 Equinox 21:58 UTC	21 	22	23
24	25	26	27	28 	29	30
31	1	2	3	4	5 	6






BCAS – meeting w/ location

April, 2019

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours





MDT = UTC – (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1	2	3	4	5 	6 RDSC/ROCC Sherbino
7	8	9	10	11 Mercury @ W. Elongation	12 	13
14	15	16 BCAS Montrose	17	18	19 	20
21 Easter	22 Lyrid Meteors	23	24	25	26 	27
28	29	30	1	2	3	4 

BCAS – meeting w/ location
 BLCA – Black Canyon N. P. event
 (GMO) – GMO/WCAC event

May, 2019

Event Dates & Times Refer to UTC
 MST = UTC – (minus) 7 hours
 MDT = UTC – (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	1	2	3 (GMO)	4 
5 Ramadan begins	6 Eta Aquariid Meteors	7	8	9	10	11 Montrose Lib.
12 	13	14	15	16	17	18 
19	20	21 BCAS Delta	22	23	24	25 Ridgway
26 	27 Memorial Day (US)	28	29 BLCA	30	31 BLCA	1







BCAS – meeting w/ location
 BLCA – Black Canyon N. P. event

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours

June, 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26 	27	28	29	30	31	1
2	3 	4	5 BLCA	6	7 Crawford S. P.	8
9	10  Jupiter @ Opposition Montrose Lib.	11	12 Cedaredge Library (Lecture-BC)	13 Delta Library (Lecture-BC)	14	15
16	17 	18 Mars/ Mercury (<1°) BCAS Montrose	19	20	21 Solstice 15:54 UTC	22
23 Mercury @ E. Elongation	24	25 	26-29 BLCA Astro-Fest			
30	1	2 	3	4	5	6







BCAS – meeting w/ location
 BLCA – Black Canyon N. P. event

July, 2019

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours






Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	1	 2 Total Solar Eclipse Chile, Argentina	<div style="border: 1px solid blue; padding: 2px; display: inline-block;"> BLCA </div>	4 Independence Day (US) Earth @ Aphelion	<div style="border: 1px solid blue; padding: 2px; display: inline-block;"> BLCA </div>	6
7 Tanabata (Star Festival, Japan)	8	 9 Saturn @ Opposition	10	11	12	13
14	15	<div style="border: 1px solid blue; padding: 2px; display: inline-block;">  BCAS Montrose </div> <div style="border: 1px solid blue; padding: 2px; display: inline-block;">  Hotchkiss Library-BC </div>	<div style="border: 1px solid blue; padding: 2px; display: inline-block;"> 17 Paonia Library (Lecture-BC) </div>	18	<div style="border: 1px solid blue; padding: 2px; display: inline-block;"> 19 Crawford Library (Lecture-BC) </div>	20
21	22	23	24	25 	<div style="border: 1px solid blue; padding: 2px; display: inline-block;"> BLCA </div>	27
28	29	30	<div style="border: 1px solid blue; padding: 2px; display: inline-block;"> BLCA </div>	1 	2	3

Eclipse Season!

BCAS – meeting w/ location
 BLCA – Black Canyon N. P. event
 (GMO) – GMO/WCAC event

August, 2019






Event Dates & Times Refer to UTC
 MST = UTC – (minus) 7 hours
 MDT = UTC – (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1 	2 BLCA (GMO)	3
4	5	6	7 	8	9 Mercury @ W. Elongation	10
11	12 Perseid Meteors	13 BCAS Montrose	14	15 	16	17
18	19	20	21	22	23 	24
25	26	27	28 BLCA	29	30 	31 BLCA

BCAS – meeting w/ location
 BLCA – Black Canyon N. P. event

September, 2019

Event Dates & Times Refer to UTC
 MST = UTC – (minus) 7 hours
 MDT = UTC – (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Labor Day (US)	3	4 BLCA	5	6 	7
8	9	10 Neptune @ Opposition	11	12	13	14 
15	16	17 BCAS Delta	18	19	20	21
22 	23 Equinox 7:50 UTC	24	25 BLCA	26	27 BLCA	28 
29 Rosh Hashanah begins @ sunset	30	1	2	3	4	5 





BCAS – meeting w/ location
 (GMO) – GMO/WCAC event

October, 2019

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours






Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	1	2	3	4	5 
6	7	8	9	10	11	12
13 	14	15 <div style="border: 1px solid blue; padding: 2px; display: inline-block;">BCAS Montrose</div>	16	17	18	19
20 Mercury @ E. Elongation	21  <div style="border: 1px solid blue; padding: 2px; display: inline-block;">Orionid Meteors</div>	22	23	24	25 (GMO)	26
27	28  Uranus @ Opposition	29	30	31	1	2

November, 2019

Event Dates & Times Refer to UTC

MST = UTC – (minus) 7 hours

MDT = UTC – (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28 	29	30	31	1	2
3 DST ends (US)	4 	5	6	7	8	9
10	11 <u>Mercury</u> <u>Solar Transit</u>	12 	13	14	15	16
17 <div style="border: 1px solid black; padding: 2px; display: inline-block;">Leonid Meteors</div>	18	19 	20	21	22	23
24 Venus/ Jupiter (1°)	25	26 	27	28 Thanksgiving Day (US) Mercury @ W. Elongation	29	30






Eclipse Season!

December, 2019

Event Dates & Times Refer to UTC

MST = UTC - (minus) 7 hours

MDT = UTC - (minus) 6 hours

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4 	5	6	7
8	9	10	11 Venus/ Saturn (2°)	12 	13 Geminid Meteors	14
15	16	17	18	19 	20	21
22 Solstice 4:19 UTC	23	24	25 Christmas	26  Annular Solar Eclipse (E. Hemisphere)	27	28
29	30	31	1	2	3 	4

2019 Phases of the Moon
Universal Time

New Moon				First Quarter				Full Moon				Last Quarter			
d	h	m		d	h	m		d	h	m		d	h	m	
Jan	6	1	28	Jan	14	6	46	Jan	21	5	16	Jan	27	21	10
Feb	4	21	04	Feb	12	22	26	Feb	19	15	54	Feb	26	11	28
Mar	6	16	04	Mar	14	10	27	Mar	21	1	43	Mar	28	4	10
Apr	5	8	50	Apr	12	19	06	Apr	19	11	12	Apr	26	22	18
May	4	22	45	May	12	1	12	May	18	21	11	May	26	16	34
Jun	3	10	02	Jun	10	5	59	Jun	17	8	31	Jun	25	9	46
Jul	2	19	16	Jul	9	10	55	Jul	16	21	38	Jul	25	1	18
Aug	1	3	12	Aug	7	17	31	Aug	15	12	29	Aug	23	14	56
Aug	30	10	37	Sep	6	3	10	Sep	14	4	33	Sep	22	2	41
Sep	28	18	26	Oct	5	16	47	Oct	13	21	08	Oct	21	12	39
Oct	28	3	38	Nov	4	10	23	Nov	12	13	34	Nov	19	21	11
Nov	26	15	06	Dec	4	6	58	Dec	12	5	12	Dec	19	4	57
Dec	26	5	13												

Lunar Phase Source: U.S. Naval Observatory