

Astronomical Almanac for 2019 January

Blackpool, Lancs

Latitude: 53°49'08" N Longitude: 3°02'01" W

Elevation: 10 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
		SR: 08:30	SR: 08:30	SR: 08:30	SR: 08:29	SR: 08:29
		SS: 16:01	SS: 16:02	SS: 16:04	SS: 16:05	SS: 16:06
		MR: 03:28	MR: 04:41	MR: 05:50	MR: 06:55	MR: 07:53
		MS: 13:29	MS: 13:54	MS: 14:25	MS: 15:02	MS: 15:46
			Sat Con			
6	7	8	9	10	11	12
SR: 08:29	SR: 08:28	SR: 08:27	SR: 08:27	SR: 08:26	SR: 08:26	SR: 08:25
SS: 16:08	SS: 16:09	SS: 16:10	SS: 16:12	SS: 16:13	SS: 16:15	SS: 16:16
MR: 08:42	MR: 09:22	MR: 09:55	MR: 10:21	MR: 10:43	MR: 11:03	MR: 11:20
MS: 16:39	MS: 17:38	MS: 18:42	MS: 19:47	MS: 20:54	MS: 22:02	MS: 23:10
NM: 01:30						
SE: 01:44						
13	14	15	16	17	18	19
SR: 08:24	SR: 08:23	SR: 08:22	SR: 08:21	SR: 08:20	SR: 08:19	SR: 08:18
SS: 16:18	SS: 16:20	SS: 16:21	SS: 16:23	SS: 16:25	SS: 16:27	SS: 16:28
MR: 11:38	MR: 11:56	MR: 12:15	MR: 12:39	MR: 13:08	MR: 13:47	MR: 14:38
MS: None	MS: 00:19	MS: 01:31	MS: 02:45	MS: 04:02	MS: 05:19	MS: 06:33
	FQ: 06:46					
20	21	22	23	24	25	26
SR: 08:17	SR: 08:15	SR: 08:14	SR: 08:13	SR: 08:11	SR: 08:10	SR: 08:09
SS: 16:30	SS: 16:32	SS: 16:34	SS: 16:36	SS: 16:38	SS: 16:39	SS: 16:41
MR: 15:43	MR: 17:01	MR: 18:26	MR: 19:53	MR: 21:18	MR: 22:41	MR: None
MS: 07:37	MS: 08:30	MS: 09:11	MS: 09:43	MS: 10:09	MS: 10:32	MS: 10:52
	FM: 05:17					
	LE: 05:12					
27	28	29	30	31		
SR: 08:07	SR: 08:05	SR: 08:04	SR: 08:02	SR: 08:01		
SS: 16:43	SS: 16:45	SS: 16:47	SS: 16:49	SS: 16:51		
MR: 00:00	MR: 01:17	MR: 02:31	MR: 03:42	MR: 04:48		
MS: 11:13	MS: 11:34	MS: 11:59	MS: 12:27	MS: 13:02		
LQ: 21:12			Mer SCon			

Meteor Showers Report for 2019-01-01 to 2019-01-31

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2019-01-04	Quadrantids	80	15h28m	50°	0.04	283°

Lunar Eclipse

Lunar eclipse on 2019-01-21

Moon rise: 17:01

Moon set: 08:30

Magnitude: 1.19

Partial phase begins: 03:34

Total phase begins: 04:42

Time of maximum eclipse: 05:12

Total phase ends: 05:42

Partial phase ends: 06:50

Planet View Info Report for 2019-01-01 to 2019-01-31

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-01-01	07:23	14:46	17h33m16s	-23°10'11"	16°23'49"	0.893	1.29617
2019-01-08	07:48	14:58	18h18m50s	-24°03'56"	13°06'42"	0.938	1.36466
2019-01-15	08:07	15:20	19h06m17s	-23°56'46"	9°30'46"	0.969	1.40650
2019-01-22	08:18	15:52	19h54m51s	-22°42'15"	5°38'37"	0.988	1.42269
2019-01-29	08:21	16:32	20h43m56s	-20°16'10"	2°12'52"	0.998	1.41157

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-01-01	04:23	13:34	15h27m59s	-15°18'38"	46°51'40"	0.474	0.63470
2019-01-08	04:34	13:25	15h56m32s	-16°54'37"	46°56'49"	0.512	0.68789
2019-01-15	04:46	13:18	16h26m44s	-18°22'36"	46°43'10"	0.546	0.74105
2019-01-22	04:59	13:14	16h58m24s	-19°36'44"	46°14'24"	0.579	0.79400
2019-01-29	05:10	13:13	17h31m19s	-20°32'03"	45°33'25"	0.609	0.84653

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-01-01	11:27	23:33	0h00m15s	-0°17'53"	79°40'38"	0.873	1.26105
2019-01-08	11:06	23:34	0h17m18s	1°42'57"	77°15'15"	0.877	1.32032
2019-01-15	10:44	23:34	0h34m29s	3°42'53"	74°51'08"	0.882	1.38012
2019-01-22	10:23	23:35	0h51m48s	5°41'06"	72°28'01"	0.887	1.44027
2019-01-29	10:02	23:36	1h09m15s	7°36'50"	70°05'31"	0.891	1.50068

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-01-01	06:17	14:04	16h41m23s	-21°34'20"	28°29'27"	0.998	6.19341
2019-01-08	05:57	13:41	16h47m34s	-21°45'43"	34°10'39"	0.997	6.13267
2019-01-15	05:37	13:19	16h53m34s	-21°55'50"	39°54'35"	0.997	6.06279
2019-01-22	05:16	12:56	16h59m20s	-22°04'42"	45°41'25"	0.996	5.98445
2019-01-29	04:55	12:33	17h04m49s	-22°12'23"	51°31'40"	0.995	5.89834

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-01-01	08:31	16:05	18h49m02s	-22°28'01"	1°10'02"	1.000	11.06185
2019-01-08	08:07	15:41	18h52m36s	-22°24'10"	5°16'18"	1.000	11.05723
2019-01-15	07:42	15:18	18h56m08s	-22°20'01"	11°34'22"	1.000	11.03978
2019-01-22	07:18	14:54	18h59m37s	-22°15'36"	17°53'09"	1.000	11.00978
2019-01-29	06:53	14:31	19h03m01s	-22°11'01"	24°12'38"	1.000	10.96761

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-01-01	12:13	02:20	1h47m08s	10°28'49"	108°20'55"	0.999	19.53242
2019-01-08	11:46	01:53	1h47m04s	10°28'44"	101°11'52"	0.999	19.64869
2019-01-15	11:18	01:25	1h47m10s	10°29'34"	94°05'36"	0.999	19.76784
2019-01-22	10:51	00:58	1h47m26s	10°31'18"	87°02'25"	0.999	19.88797
2019-01-29	10:23	00:31	1h47m51s	10°33'55"	80°02'14"	0.999	20.00736