

# Astronomical Almanac for 2019 April

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	6
	SR: 05:46	SR: 05:44	SR: 05:41	SR: 05:39	SR: 05:36	SR: 05:34
	SS: 18:47	SS: 18:49	SS: 18:51	SS: 18:53	SS: 18:55	SS: 18:57
	MR: 04:59	MR: 05:21	MR: 05:40	MR: 05:57	MR: 06:14	MR: 06:31
	MS: 14:23	MS: 15:31	MS: 16:39	MS: 17:48	MS: 18:59	MS: 20:10
					NM: 08:52	
7	8	9	10	11	12	13
SR: 05:32	SR: 05:29	SR: 05:27	SR: 05:24	SR: 05:22	SR: 05:20	SR: 05:17
SS: 18:58	SS: 19:00	SS: 19:02	SS: 19:04	SS: 19:06	SS: 19:08	SS: 19:09
MR: 06:50	MR: 07:12	MR: 07:39	MR: 08:13	MR: 08:57	MR: 09:54	MR: 11:02
MS: 21:23	MS: 22:37	MS: 23:50	MS: None	MS: 00:59	MS: 02:00	MS: 02:52
					FQ: 19:06	
14	15	16	17	18	19	20
SR: 05:15	SR: 05:13	SR: 05:10	SR: 05:08	SR: 05:06	SR: 05:03	SR: 05:01
SS: 19:11	SS: 19:13	SS: 19:15	SS: 19:17	SS: 19:19	SS: 19:21	SS: 19:22
MR: 12:20	MR: 13:43	MR: 15:08	MR: 16:34	MR: 17:59	MR: 19:23	MR: 20:45
MS: 03:33	MS: 04:06	MS: 04:32	MS: 04:55	MS: 05:16	MS: 05:37	MS: 05:59
					FM: 11:12	
21	22	23	24	25	26	27
SR: 04:59	SR: 04:57	SR: 04:54	SR: 04:52	SR: 04:50	SR: 04:48	SR: 04:46
SS: 19:24	SS: 19:26	SS: 19:28	SS: 19:30	SS: 19:32	SS: 19:33	SS: 19:35
MR: 22:03	MR: 23:17	MR: None	MR: 00:22	MR: 01:17	MR: 02:01	MR: 02:36
MS: 06:23	MS: 06:52	MS: 07:27	MS: 08:10	MS: 09:02	MS: 10:00	MS: 11:03
		Ura Con			LQ: 22:19	
28	29	30				
SR: 04:43	SR: 04:41	SR: 04:39				
SS: 19:37	SS: 19:39	SS: 19:41				
MR: 03:04	MR: 03:27	MR: 03:46				
MS: 12:09	MS: 13:16	MS: 14:25				

## Twilight Report for 2019-04-01 to 2019-04-30

Date	Sun		Astronomical		Nautical		Civil	
	Rise	Set	Begin	End	Begin	End	Begin	End
2019-04-01	05:46	18:47	03:34	20:59	04:21	20:12	05:05	19:29
2019-04-08	05:29	19:00	03:12	21:18	04:02	20:28	04:47	19:43
2019-04-15	05:13	19:13	02:47	21:38	03:42	20:44	04:29	19:57
2019-04-22	04:57	19:26	02:21	22:02	03:22	21:01	04:12	20:11
2019-04-29	04:41	19:39	01:51	22:29	03:01	21:19	03:55	20:26

## Meteor Showers Report for 2019-04-01 to 2019-04-30

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2019-04-12	Virginids	5	14h04m	-9°	0.41	22°
2019-04-23	Lyrids	12	18h08m	32°	0.85	32°

## Planet View Info Report for 2019-04-01 to 2019-04-30

## Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-04-01	05:13	16:19	23h11m08s	-5°29'50"	24°21'16"	0.288	0.71783
2019-04-08	05:00	16:12	23h27m48s	-5°09'36"	27°20'43"	0.419	0.81403
2019-04-15	04:48	16:23	23h54m05s	-3°13'35"	27°28'57"	0.529	0.91661
2019-04-22	04:36	16:47	0h27m00s	-0°02'24"	25°32'27"	0.627	1.02021
2019-04-29	04:24	17:22	1h05m21s	4°08'04"	21°54'36"	0.723	1.12152

## Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-04-01	05:01	15:19	22h33m23s	-10°03'55"	34°45'03"	0.811	1.27384
2019-04-08	04:49	15:40	23h05m24s	-7°07'13"	33°12'53"	0.829	1.31636
2019-04-15	04:35	16:02	23h37m01s	-4°00'17"	31°38'10"	0.846	1.35742
2019-04-22	04:22	16:23	0h08m22s	-0°46'51"	30°00'56"	0.862	1.39698
2019-04-29	04:07	16:45	0h39m41s	2°29'20"	28°21'24"	0.877	1.43492

## Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-04-01	07:15	23:41	3h52m31s	21°08'57"	49°31'15"	0.937	2.01989
2019-04-08	07:00	23:40	4h11m59s	22°05'46"	47°14'49"	0.942	2.07378
2019-04-15	06:46	23:38	4h31m38s	22°53'45"	44°59'07"	0.947	2.12607
2019-04-22	06:33	23:36	4h51m24s	23°32'32"	42°44'02"	0.952	2.17668
2019-04-29	06:21	23:32	5h11m16s	24°01'56"	40°29'21"	0.956	2.22553

## Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-04-01	01:25	08:55	17h34m52s	-22°40'38"	106°46'46"	0.992	4.94748
2019-04-08	00:58	08:28	17h35m27s	-22°40'54"	113°32'38"	0.993	4.84071
2019-04-15	00:30	08:00	17h35m23s	-22°40'50"	120°25'56"	0.993	4.73928
2019-04-22	00:02	07:32	17h34m39s	-22°40'25"	127°26'34"	0.994	4.64468
2019-04-29	23:29	07:03	17h33m16s	-22°39'39"	134°34'40"	0.995	4.55832

## Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-04-01	03:07	10:54	19h25m18s	-21°34'09"	81°12'53"	0.998	10.17823
2019-04-08	02:40	10:27	19h26m31s	-21°31'55"	87°49'43"	0.998	10.06186
2019-04-15	02:13	10:01	19h27m25s	-21°30'19"	94°29'23"	0.998	9.94504
2019-04-22	01:46	09:34	19h27m59s	-21°29'24"	101°11'58"	0.998	9.82933
2019-04-29	01:19	09:07	19h28m12s	-21°29'13"	107°57'51"	0.998	9.71626

## Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2019-04-01	06:24	20:38	1h57m15s	11°27'27"	20°18'44"	1.000	20.78739
2019-04-08	05:57	20:13	1h58m45s	11°35'36"	13°48'12"	1.000	20.82339
2019-04-15	05:30	19:48	2h00m16s	11°43'53"	7°20'14"	1.000	20.84625
2019-04-22	05:03	19:23	2h01m48s	11°52'12"	1°00'26"	1.000	20.85582
2019-04-29	04:36	18:58	2h03m20s	12°00'29"	5°33'18"	1.000	20.85210