

Astronomical Almanac for 2021 October

Blackpool, Lancs

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

Elevation: 10 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
					SR: 06:14	SR: 06:16
					SS: 17:48	SS: 17:46
					MR: None	MR: 00:23
					MS: 16:36	MS: 17:00
3	4	5	6	7	8	9
SR: 06:18	SR: 06:20	SR: 06:21	SR: 06:23	SR: 06:25	SR: 06:27	SR: 06:29
SS: 17:43	SS: 17:41	SS: 17:39	SS: 17:36	SS: 17:34	SS: 17:31	SS: 17:29
MR: 01:44	MR: 03:07	MR: 04:33	MR: 05:59	MR: 07:28	MR: 09:00	MR: 10:33
MS: 17:18	MS: 17:33	MS: 17:47	MS: 18:00	MS: 18:14	MS: 18:31	MS: 18:53
			NM: 11:06		Mar	Con
10	11	12	13	14	15	16
SR: 06:31	SR: 06:32	SR: 06:34	SR: 06:36	SR: 06:38	SR: 06:40	SR: 06:42
SS: 17:27	SS: 17:24	SS: 17:22	SS: 17:20	SS: 17:17	SS: 17:15	SS: 17:13
MR: 12:04	MR: 13:26	MR: 14:33	MR: 15:21	MR: 15:54	MR: 16:17	MR: 16:33
MS: 19:25	MS: 20:09	MS: 21:10	MS: 22:25	MS: 23:47	MS: None	MS: 01:10
Mer Icon			FQ: 03:28			
17	18	19	20	21	22	23
SR: 06:44	SR: 06:46	SR: 06:47	SR: 06:49	SR: 06:51	SR: 06:53	SR: 06:55
SS: 17:10	SS: 17:08	SS: 17:06	SS: 17:04	SS: 17:01	SS: 16:59	SS: 16:57
MR: 16:47	MR: 16:58	MR: 17:09	MR: 17:20	MR: 17:32	MR: 17:47	MR: 18:06
MS: 02:31	MS: 03:49	MS: 05:04	MS: 06:19	MS: 07:33	MS: 08:47	MS: 10:00
			FM: 14:58			
24	25	26	27	28	29	30
SR: 06:57	SR: 06:59	SR: 07:01	SR: 07:03	SR: 07:05	SR: 07:07	SR: 07:09
SS: 16:55	SS: 16:53	SS: 16:50	SS: 16:48	SS: 16:46	SS: 16:44	SS: 16:42
MR: 18:31	MR: 19:06	MR: 19:52	MR: 20:51	MR: 22:01	MR: 23:18	MR: None
MS: 11:12	MS: 12:19	MS: 13:16	MS: 14:03	MS: 14:38	MS: 15:03	MS: 15:23
				LQ: 20:07		
31						
SR: 07:11						
SS: 16:40						
MR: 00:39						
MS: 15:39						

Meteor Showers Report for 2021-10-01 to 2021-10-31

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2021-10-13	Piscids	??	1h44m	14°	0.49	200°
2021-10-22	Orionids	25	6h24m	15°	0.98	209°

Planet View Info Report for 2021-10-01 to 2021-10-31

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-10-01	08:05	17:46	13h25m42s	-12°55'45"	16°57'49"	0.173	0.70475
2021-10-08	06:55	17:18	13h04m47s	-9°29'38"	4°20'57"	0.012	0.65843
2021-10-15	05:38	16:55	12h41m31s	-4°34'49"	10°31'23"	0.092	0.72312
2021-10-22	05:05	16:40	12h43m27s	-2°54'47"	17°45'03"	0.407	0.89056
2021-10-29	05:18	16:27	13h10m18s	-5°09'34"	17°43'50"	0.703	1.08057

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-10-01	10:52	18:51	15h19m25s	-20°36'18"	44°51'15"	0.622	0.88757
2021-10-08	11:13	18:39	15h51m18s	-22°51'09"	45°42'18"	0.594	0.83459
2021-10-15	11:32	18:30	16h23m30s	-24°40'15"	46°22'58"	0.564	0.78121
2021-10-22	11:48	18:23	16h55m40s	-26°01'09"	46°50'46"	0.532	0.72761
2021-10-29	12:00	18:20	17h27m23s	-26°52'23"	47°02'29"	0.498	0.67404

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-10-01	06:27	17:54	12h39m20s	-3°28'08"	2°27'59"	1.000	2.63471
2021-10-08	06:26	17:34	12h56m14s	-5°18'14"	0°39'19"	1.000	2.62861
2021-10-15	06:26	17:13	13h13m20s	-7°07'05"	2°19'23"	1.000	2.61946
2021-10-22	06:26	16:53	13h30m40s	-8°54'01"	4°34'44"	0.999	2.60738
2021-10-29	06:26	16:33	13h48m16s	-10°38'27"	6°51'53"	0.999	2.59250

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-10-01	16:34	01:52	21h42m06s	-15°02'10"	134°43'20"	0.995	4.25918
2021-10-08	16:05	01:23	21h40m50s	-15°07'43"	127°30'38"	0.994	4.34117
2021-10-15	15:38	00:54	21h40m12s	-15°09'59"	120°25'58"	0.993	4.43151
2021-10-22	15:10	00:27	21h40m13s	-15°08'59"	113°29'39"	0.992	4.52861
2021-10-29	14:43	00:01	21h40m52s	-15°04'43"	106°41'28"	0.991	4.63098

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-10-01	15:58	00:21	20h38m32s	-19°18'45"	118°58'13"	0.998	9.43344
2021-10-08	15:30	23:49	20h38m13s	-19°19'56"	111°59'51"	0.998	9.53816
2021-10-15	15:03	23:22	20h38m15s	-19°19'50"	105°04'49"	0.998	9.64817
2021-10-22	14:36	22:55	20h38m36s	-19°18'28"	98°13'14"	0.998	9.76176
2021-10-29	14:09	22:28	20h39m17s	-19°15'51"	91°24'53"	0.998	9.87736

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-10-01	18:42	09:52	2h47m05s	15°39'58"	143°56'36"	1.000	18.91916
2021-10-08	18:14	09:23	2h46m11s	15°35'51"	151°04'11"	1.000	18.85596
2021-10-15	17:46	08:54	2h45m11s	15°31'19"	158°14'42"	1.000	18.80581
2021-10-22	17:18	08:25	2h44m06s	15°26'29"	165°27'41"	1.000	18.76955
2021-10-29	16:50	07:56	2h42m59s	15°21'25"	172°42'48"	1.000	18.74778

Neptune

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-10-01	17:20	04:41	23h30m03s	-4°30'32"	163°15'27"	1.000	28.96199
2021-10-08	16:53	04:12	23h29m23s	-4°34'42"	156°11'42"	1.000	29.00509
2021-10-15	16:25	03:44	23h28m46s	-4°38'34"	149°06'46"	1.000	29.06174
2021-10-22	15:57	03:15	23h28m13s	-4°42'02"	142°01'08"	1.000	29.13106
2021-10-29	15:29	02:47	23h27m43s	-4°45'02"	134°54'52"	1.000	29.21201