

# Astronomical Almanac for 2022 August

Blackpool, Lancs

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

Elevation: 15 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
	SR: 04:26	SR: 04:28	SR: 04:30	SR: 04:31	SR: 04:33	SR: 04:35
	SS: 20:10	SS: 20:08	SS: 20:06	SS: 20:04	SS: 20:02	SS: 20:00
	MR: 08:18	MR: 09:34	MR: 10:52	MR: 12:12	MR: 13:37	MR: 15:05
	MS: 21:51	MS: 22:01	MS: 22:11	MS: 22:23	MS: 22:38	MS: 22:59
					FQ: 11:08	
7	8	9	10	11	12	13
SR: 04:36	SR: 04:38	SR: 04:40	SR: 04:42	SR: 04:43	SR: 04:45	SR: 04:47
SS: 19:58	SS: 19:56	SS: 19:54	SS: 19:52	SS: 19:50	SS: 19:48	SS: 19:46
MR: 16:35	MR: 17:58	MR: 19:03	MR: 19:49	MR: 20:18	MR: 20:38	MR: 20:53
MS: 23:31	MS: None	MS: 00:20	MS: 01:31	MS: 03:01	MS: 04:37	MS: 06:11
					FM: 01:36	Perseids
14	15	16	17	18	19	20
SR: 04:49	SR: 04:50	SR: 04:52	SR: 04:54	SR: 04:56	SR: 04:57	SR: 04:59
SS: 19:44	SS: 19:42	SS: 19:39	SS: 19:37	SS: 19:35	SS: 19:33	SS: 19:31
MR: 21:05	MR: 21:16	MR: 21:27	MR: 21:39	MR: 21:53	MR: 22:12	MR: 22:38
MS: 07:42	MS: 09:07	MS: 10:29	MS: 11:50	MS: 13:09	MS: 14:26	MS: 15:40
	Sat Opp				LQ: 04:37	
21	22	23	24	25	26	27
SR: 05:01	SR: 05:03	SR: 05:05	SR: 05:06	SR: 05:08	SR: 05:10	SR: 05:12
SS: 19:28	SS: 19:26	SS: 19:24	SS: 19:21	SS: 19:19	SS: 19:17	SS: 19:14
MR: 23:15	MR: None	MR: 00:04	MR: 01:05	MR: 02:16	MR: 03:32	MR: 04:49
MS: 16:47	MS: 17:43	MS: 18:26	MS: 18:57	MS: 19:19	MS: 19:36	MS: 19:49
						NM: 08:17
28	29	30	31			
SR: 05:13	SR: 05:15	SR: 05:17	SR: 05:19			
SS: 19:12	SS: 19:10	SS: 19:07	SS: 19:05			
MR: 06:06	MR: 07:23	MR: 08:41	MR: 10:01			
MS: 19:59	MS: 20:09	MS: 20:19	MS: 20:30			

## Meteor Showers Report for 2022-08-01 to 2022-08-31

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2022-08-03	alpha-Capricornids	5	20h36m	-10°	0.25	130°
2022-08-13	Perseids	75	3h04m	58°	0.99	140°
2022-08-21	alpha-Cygnids	5	21h00m	48°	0.33	148°

## Twilight Report for 2022-08-01 to 2022-08-31

Date	Sun		Astronomical		Nautical		Civil	
	Rise	Set	Begin	End	Begin	End	Begin	End
2022-08-01	04:26	20:10	00:39	23:56	02:34	22:02	03:36	21:00
2022-08-08	04:38	19:56	01:32	23:02	02:53	21:41	03:50	20:45
2022-08-15	04:50	19:42	02:04	22:28	03:12	21:21	04:04	20:28
2022-08-22	05:03	19:26	02:30	21:59	03:29	21:00	04:18	20:11
2022-08-29	05:15	19:10	02:52	21:33	03:45	20:40	04:32	19:53

## Planet View Info Report for 2022-08-01 to 2022-08-31

## Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2022-08-01	05:55	20:50	9h48m26s	14°47'00"	15°36'58"	0.864	1.26723
2022-08-08	06:41	20:36	10h32m31s	9°57'59"	20°37'55"	0.782	1.19249
2022-08-15	07:18	20:18	11h10m02s	5°07'18"	24°20'37"	0.700	1.10553
2022-08-22	07:47	19:57	11h41m33s	0°34'06"	26°39'52"	0.614	1.01009
2022-08-29	08:05	19:32	12h06m31s	-3°22'23"	27°16'42"	0.511	0.90820

## Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2022-08-01	02:26	19:09	7h13m11s	22°19'42"	21°52'39"	0.926	1.55531
2022-08-08	02:42	19:10	7h49m40s	21°18'47"	20°03'32"	0.938	1.58281
2022-08-15	03:02	19:06	8h25m39s	19°47'39"	18°13'34"	0.949	1.60780
2022-08-22	03:24	19:00	9h00m58s	17°48'39"	16°23'05"	0.959	1.63024
2022-08-29	03:47	18:51	9h35m31s	15°24'53"	14°32'22"	0.968	1.65003

## Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2022-08-01	23:02	14:12	3h04m23s	15°35'52"	80°41'46"	0.847	1.13207
2022-08-08	22:44	14:10	3h22m11s	16°50'03"	82°56'49"	0.847	1.09378
2022-08-15	22:26	14:08	3h39m37s	17°56'39"	85°21'09"	0.847	1.05505
2022-08-22	22:09	14:04	3h56m36s	18°55'38"	87°56'18"	0.848	1.01578
2022-08-29	21:52	13:58	4h12m59s	19°47'08"	90°44'06"	0.850	0.97594

## Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2022-08-01	21:49	10:21	0h34m04s	2°06'16"	120°06'10"	0.992	4.37173
2022-08-08	21:21	09:53	0h33m33s	2°00'47"	126°57'22"	0.993	4.28219
2022-08-15	20:54	09:23	0h32m27s	1°51'39"	133°58'38"	0.995	4.20064
2022-08-22	20:25	08:53	0h30m48s	1°39'04"	141°10'00"	0.996	4.12844
2022-08-29	19:57	08:22	0h28m37s	1°23'21"	148°30'55"	0.997	4.06704

## Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2022-08-01	20:35	05:54	21h43m01s	-15°04'14"	165°44'01"	1.000	8.90559
2022-08-08	20:07	05:23	21h41m03s	-15°14'56"	172°52'56"	1.000	8.88385
2022-08-15	19:39	04:52	21h39m01s	-15°25'42"	178°40'21"	1.000	8.87663
2022-08-22	19:10	04:22	21h36m59s	-15°36'16"	172°23'56"	1.000	8.88406
2022-08-29	18:42	03:51	21h35m00s	-15°46'24"	165°11'38"	1.000	8.90611

## Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2022-08-01	22:52	14:20	3h05m20s	17°02'05"	80°04'38"	0.999	19.84389
2022-08-08	22:25	13:53	3h05m48s	17°03'55"	86°39'52"	0.999	19.72631
2022-08-15	21:57	13:26	3h06m06s	17°05'06"	93°18'10"	0.999	19.60799
2022-08-22	21:30	12:59	3h06m15s	17°05'36"	99°59'59"	0.999	19.49044
2022-08-29	21:02	12:31	3h06m13s	17°05'27"	106°45'35"	0.999	19.37525

## Neptune

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2022-08-01	21:27	09:04	23h44m08s	-3°01'52"	133°35'56"	1.000	29.20697
2022-08-08	20:59	08:35	23h43m40s	-3°05'09"	140°25'32"	1.000	29.12724
2022-08-15	20:32	08:07	23h43m08s	-3°08'50"	147°16'51"	1.000	29.05851
2022-08-22	20:04	07:38	23h42m33s	-3°12'52"	154°10'05"	1.000	29.00180
2022-08-29	19:36	07:10	23h41m55s	-3°17'11"	161°05'08"	1.000	28.95806