

# Astronomical Almanac for 2024 July

Blackpool, Lancs

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

Elevation: 5 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
	SR: 03:46	SR: 03:47	SR: 03:48	SR: 03:48	SR: 03:49	SR: 03:50
	SS: 20:46	SS: 20:45	SS: 20:45	SS: 20:44	SS: 20:44	SS: 20:43
	MR: 00:19	MR: 00:35	MR: 00:58	MR: 01:32	MR: 02:23	MR: 03:32
	MS: 16:19	MS: 17:50	MS: 19:15	MS: 20:27	MS: 21:18	MS: 21:52
					NM: 22:59	
					Aphelion	
7	8	9	10	11	12	13
SR: 03:51	SR: 03:52	SR: 03:54	SR: 03:55	SR: 03:56	SR: 03:57	SR: 03:58
SS: 20:42	SS: 20:42	SS: 20:41	SS: 20:40	SS: 20:39	SS: 20:38	SS: 20:37
MR: 04:51	MR: 06:12	MR: 07:32	MR: 08:49	MR: 10:02	MR: 11:14	MR: 12:27
MS: 22:14	MS: 22:28	MS: 22:39	MS: 22:47	MS: 22:55	MS: 23:02	MS: 23:09
						FQ: 22:50
14	15	16	17	18	19	20
SR: 04:00	SR: 04:01	SR: 04:02	SR: 04:04	SR: 04:05	SR: 04:07	SR: 04:08
SS: 20:36	SS: 20:35	SS: 20:33	SS: 20:32	SS: 20:31	SS: 20:30	SS: 20:28
MR: 13:41	MR: 14:59	MR: 16:20	MR: 17:42	MR: 18:59	MR: 20:01	MR: 20:45
MS: 23:18	MS: 23:30	MS: 23:46	MS: None	MS: 00:12	MS: 00:53	MS: 01:56
21	22	23	24	25	26	27
SR: 04:09	SR: 04:11	SR: 04:13	SR: 04:14	SR: 04:16	SR: 04:17	SR: 04:19
SS: 20:27	SS: 20:25	SS: 20:24	SS: 20:22	SS: 20:21	SS: 20:19	SS: 20:17
MR: 21:14	MR: 21:33	MR: 21:46	MR: 21:57	MR: 22:06	MR: 22:16	MR: 22:27
MS: 03:19	MS: 04:53	MS: 06:29	MS: 08:03	MS: 09:35	MS: 11:05	MS: 12:35
FM: 10:20		Plu Opp				
28	29	30	31			
SR: 04:20	SR: 04:22	SR: 04:24	SR: 04:25			
SS: 20:16	SS: 20:14	SS: 20:12	SS: 20:11			
MR: 22:41	MR: 23:00	MR: 23:30	MR: None			
MS: 14:05	MS: 15:36	MS: 17:03	MS: 18:18			
LQ: 02:54						

## Meteor Showers Report for 2024-07-01 to 2024-07-31

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2024-07-15	Capricornids	5	20h44m	-15°	0.60	113°
2024-07-21	alpha-Cygnids	5	21h00m	48°	1.00	118°
2024-07-26	Capricornids	5	21h00m	-15°	0.74	123°
2024-07-29	delta-Aquarids	20	22h36m	-17°	0.40	126°

## Planet View Info Report for 2024-07-01 to 2024-07-31

## Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-07-01	05:11	21:57	7h59m03s	22°30'49"	17°44'36"	0.785	1.18294
2024-07-08	05:56	21:51	8h46m54s	19°18'12"	22°37'25"	0.668	1.07772
2024-07-15	06:31	21:35	9h25m15s	15°33'45"	25°44'48"	0.560	0.96874
2024-07-22	06:55	21:13	9h54m08s	11°49'05"	26°56'00"	0.453	0.86194
2024-07-29	07:05	20:44	10h12m37s	8°35'15"	25°43'18"	0.336	0.76174

## Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-07-01	04:19	21:17	7h13m43s	23°17'11"	7°16'41"	0.992	1.71548
2024-07-08	04:37	21:17	7h50m42s	22°08'53"	9°12'52"	0.987	1.70337
2024-07-15	04:59	21:13	8h26m57s	20°29'10"	11°08'45"	0.981	1.68840
2024-07-22	05:22	21:05	9h02m17s	18°21'03"	13°04'09"	0.974	1.67068
2024-07-29	05:46	20:54	9h36m39s	15°48'10"	14°58'44"	0.966	1.65036

## Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-07-01	00:54	16:04	2h55m09s	15°42'34"	53°42'09"	0.906	1.73888
2024-07-08	00:37	16:06	3h15m09s	17°09'14"	55°22'09"	0.902	1.70889
2024-07-15	00:21	16:07	3h35m10s	18°27'28"	57°06'08"	0.898	1.67791
2024-07-22	00:05	16:08	3h55m13s	19°36'55"	58°54'20"	0.895	1.64589
2024-07-29	23:48	16:07	4h15m13s	20°37'15"	60°47'20"	0.892	1.61269

## Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-07-01	01:49	18:10	4h26m16s	20°59'24"	31°28'00"	0.997	5.86434
2024-07-08	01:26	17:50	4h32m36s	21°13'16"	36°38'50"	0.996	5.80614
2024-07-15	01:03	17:30	4h38m44s	21°25'46"	41°52'46"	0.995	5.73990
2024-07-22	00:40	17:10	4h44m38s	21°36'53"	47°10'18"	0.994	5.66621
2024-07-29	00:16	16:49	4h50m16s	21°46'41"	52°32'16"	0.994	5.58560

## Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-07-01	23:24	10:28	23h24m24s	-5°59'48"	110°11'27"	0.998	9.30981
2024-07-08	22:56	10:00	23h24m15s	-6°02'42"	116°54'59"	0.998	9.20300
2024-07-15	22:29	09:31	23h23m48s	-6°07'27"	123°43'18"	0.998	9.10245
2024-07-22	22:01	09:02	23h23m04s	-6°13'56"	130°36'11"	0.998	9.00966
2024-07-29	21:33	08:33	23h22m03s	-6°22'02"	137°33'47"	0.999	8.92597

## Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-07-01	01:11	17:02	3h33m47s	18°56'09"	43°57'06"	1.000	20.30528
2024-07-08	00:44	16:36	3h35m03s	19°00'28"	50°19'23"	1.000	20.21840
2024-07-15	00:17	16:10	3h36m11s	19°04'21"	56°43'23"	1.000	20.12304
2024-07-22	23:47	15:44	3h37m12s	19°07'46"	63°09'19"	0.999	20.02042
2024-07-29	23:20	15:17	3h38m04s	19°10'42"	69°37'43"	0.999	19.91177

## Neptune

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-07-01	23:35	11:31	0h01m49s	-1°11'51"	99°43'38"	1.000	29.71063
2024-07-08	23:07	11:04	0h01m48s	-1°12'22"	106°24'37"	1.000	29.59588
2024-07-15	22:40	10:36	0h01m41s	-1°13'30"	113°07'11"	1.000	29.48512
2024-07-22	22:12	10:08	0h01m28s	-1°15'14"	119°51'19"	1.000	29.37991
2024-07-29	21:44	09:40	0h01m10s	-1°17'31"	126°37'22"	1.000	29.28168