

Astronomical Almanac for 2021 July

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

Meteor Showers Report for 2021-07-01 to 2021-07-31

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2021-07-16	Capricornids	5	20h44m	-15°	0.34	113°
2021-07-21	alpha-Cygnids	5	21h00m	48°	0.87	118°
2021-07-26	Capricornids	5	21h00m	-15°	0.95	123°

Planet View Info Report for 2021-07-01 to 2021-07-31

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-07-01	02:48	18:46	5h12m12s	19°14'23"	21°00'49"	0.274	0.76481
2021-07-08	02:35	18:59	5h38m41s	20°54'04"	21°11'19"	0.451	0.91155
2021-07-15	02:38	19:27	6h20m47s	22°25'58"	17°58'08"	0.661	1.07325
2021-07-22	03:04	19:57	7h16m18s	22°46'57"	11°53'55"	0.867	1.22107
2021-07-29	03:52	20:17	8h18m29s	21°07'26"	4°20'40"	0.985	1.31809

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-07-01	05:56	22:13	8h29m33s	20°41'06"	25°17'03"	0.899	1.49239
2021-07-08	06:19	22:04	9h04m16s	18°28'50"	27°04'45"	0.883	1.45626
2021-07-15	06:43	21:52	9h37m55s	15°52'29"	28°50'49"	0.866	1.41790
2021-07-22	07:06	21:38	10h10m30s	12°56'10"	30°34'59"	0.849	1.37744
2021-07-29	07:30	21:23	10h42m09s	9°44'00"	32°16'50"	0.830	1.33512

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-07-01	06:42	22:25	8h59m21s	18°22'58"	32°38'15"	0.972	2.42856
2021-07-08	06:40	22:06	9h16m46s	17°05'17"	30°18'30"	0.976	2.46265
2021-07-15	06:39	21:46	9h34m00s	15°42'11"	27°59'23"	0.979	2.49381
2021-07-22	06:38	21:26	9h51m02s	14°14'09"	25°40'54"	0.982	2.52198
2021-07-29	06:37	21:06	10h07m55s	12°41'40"	23°22'52"	0.985	2.54719

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-07-01	22:50	08:49	22h17m21s	-11°42'54"	127°25'33"	0.994	4.35649
2021-07-08	22:23	08:20	22h16m13s	-11°51'18"	134°24'30"	0.995	4.27334
2021-07-15	21:54	07:49	22h14m31s	-12°02'48"	141°32'26"	0.996	4.19964
2021-07-22	21:26	07:18	22h12m17s	-12°17'01"	148°48'25"	0.997	4.13678
2021-07-29	20:58	06:46	22h09m37s	-12°33'30"	156°11'35"	0.998	4.08585

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-07-01	22:11	06:55	21h00m20s	-17°46'24"	146°59'35"	0.999	9.10628
2021-07-08	21:43	06:25	20h58m41s	-17°54'10"	154°04'42"	1.000	9.04864
2021-07-15	21:14	05:54	20h56m51s	-18°02'35"	161°12'29"	1.000	9.00402
2021-07-22	20:46	05:24	20h54m53s	-18°11'25"	168°21'57"	1.000	8.97319
2021-07-29	20:17	04:53	20h52m50s	-18°20'26"	175°31'02"	1.000	8.95658

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-07-01	00:47	15:52	2h45m51s	15°35'27"	55°36'20"	1.000	20.30646
2021-07-08	00:20	15:26	2h46m50s	15°39'51"	62°01'51"	0.999	20.20545
2021-07-15	23:49	15:00	2h47m42s	15°43'39"	68°29'30"	0.999	20.09811
2021-07-22	23:22	14:34	2h48m26s	15°46'47"	74°59'20"	0.999	19.98589
2021-07-29	22:54	14:07	2h49m00s	15°49'17"	81°31'43"	0.999	19.87020

Neptune

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2021-07-01	23:25	10:53	23h36m49s	-3°44'20"	106°11'56"	1.000	29.62440
2021-07-08	22:57	10:26	23h36m43s	-3°45'24"	112°54'21"	1.000	29.51343
2021-07-15	22:30	09:58	23h36m30s	-3°47'04"	119°38'27"	1.000	29.40793
2021-07-22	22:02	09:30	23h36m12s	-3°49'18"	126°24'03"	1.000	29.30946
2021-07-29	21:34	09:02	23h35m49s	-3°52'03"	133°11'20"	1.000	29.21937