

Astronomical Almanac for 2024 November

Blackpool, Lancs Latitude: 53°49'08" N Longitude: 3°02'01" W
 Elevation: 5 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
					SR: 07:13	SR: 07:15
					SS: 16:38	SS: 16:36
					MR: 07:18	MR: 08:36
					MS: 16:12	MS: 16:25
					NM: 12:48	
3	4	5	6	7	8	9
SR: 07:17	SR: 07:19	SR: 07:21	SR: 07:23	SR: 07:25	SR: 07:27	SR: 07:29
SS: 16:34	SS: 16:32	SS: 16:30	SS: 16:28	SS: 16:26	SS: 16:25	SS: 16:23
MR: 09:55	MR: 11:12	MR: 12:18	MR: 13:08	MR: 13:43	MR: 14:06	MR: 14:22
MS: 16:45	MS: 17:16	MS: 18:03	MS: 19:09	MS: 20:29	MS: 21:57	MS: 23:27
						FQ: 05:57
10	11	12	13	14	15	16
SR: 07:30	SR: 07:32	SR: 07:34	SR: 07:36	SR: 07:38	SR: 07:40	SR: 07:42
SS: 16:21	SS: 16:19	SS: 16:18	SS: 16:16	SS: 16:15	SS: 16:13	SS: 16:12
MR: 14:33	MR: 14:43	MR: 14:53	MR: 15:03	MR: 15:15	MR: 15:32	MR: 15:56
MS: None	MS: 00:57	MS: 02:28	MS: 04:00	MS: 05:35	MS: 07:14	MS: 08:53
					FM: 21:30	
17	18	19	20	21	22	23
SR: 07:44	SR: 07:45	SR: 07:47	SR: 07:49	SR: 07:51	SR: 07:53	SR: 07:54
SS: 16:10	SS: 16:09	SS: 16:07	SS: 16:06	SS: 16:05	SS: 16:04	SS: 16:02
MR: 16:35	MR: 17:33	MR: 18:48	MR: 20:12	MR: 21:35	MR: 22:55	MR: None
MS: 10:25	MS: 11:38	MS: 12:28	MS: 12:59	MS: 13:18	MS: 13:32	MS: 13:41
Ura Opp						LQ: 01:30
24	25	26	27	28	29	30
SR: 07:56	SR: 07:58	SR: 07:59	SR: 08:01	SR: 08:03	SR: 08:04	SR: 08:06
SS: 16:01	SS: 16:00	SS: 15:59	SS: 15:58	SS: 15:57	SS: 15:57	SS: 15:56
MR: 00:11	MR: 01:24	MR: 02:36	MR: 03:48	MR: 05:03	MR: 06:20	MR: 07:40
MS: 13:49	MS: 13:56	MS: 14:03	MS: 14:10	MS: 14:20	MS: 14:32	MS: 14:50

Meteor Showers Report for 2024-11-01 to 2024-11-30

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2024-11-03	Taurids	8	3h44m	14°	0.02	221°
2024-11-18	Leonids	10	10h08m	22°	0.94	236°

Planet View Info Report for 2024-11-01 to 2024-11-30

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-11-01	09:16	17:01	15h38m51s	-21°32'28"	18°31'14"	0.862	1.27191
2024-11-08	09:46	16:56	16h18m59s	-23°56'07"	21°05'27"	0.786	1.17268
2024-11-15	10:06	16:54	16h55m37s	-25°17'17"	22°30'09"	0.665	1.04579
2024-11-22	10:04	16:51	17h22m07s	-25°25'09"	21°23'16"	0.466	0.89529
2024-11-29	09:25	16:35	17h24m42s	-24°05'39"	14°43'15"	0.182	0.74763

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-11-01	11:03	18:03	17h03m14s	-24°34'54"	38°05'09"	0.771	1.17546
2024-11-08	11:19	18:06	17h40m06s	-25°23'57"	39°28'17"	0.751	1.13007
2024-11-15	11:30	18:14	18h17m06s	-25°37'35"	40°47'29"	0.730	1.08362
2024-11-22	11:35	18:27	18h53m48s	-25°15'26"	42°02'02"	0.708	1.03626
2024-11-29	11:36	18:43	19h29m49s	-24°18'31"	43°11'16"	0.685	0.98806

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-11-01	21:15	13:50	8h05m17s	21°44'59"	100°10'52"	0.887	1.01897
2024-11-08	21:00	13:30	8h15m28s	21°28'29"	104°49'29"	0.893	0.96756
2024-11-15	20:42	13:10	8h23m59s	21°16'31"	109°52'53"	0.901	0.91670
2024-11-22	20:21	12:48	8h30m37s	21°10'51"	115°24'28"	0.911	0.86699
2024-11-29	19:58	12:25	8h35m06s	21°13'18"	121°28'29"	0.923	0.81921

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-11-01	18:22	11:08	5h18m45s	22°23'04"	138°35'30"	0.996	4.27397
2024-11-08	17:53	10:38	5h16m12s	22°20'41"	146°11'51"	0.997	4.20997
2024-11-15	17:22	10:06	5h13m07s	22°17'40"	153°57'04"	0.998	4.15826
2024-11-22	16:52	09:35	5h09m34s	22°14'03"	161°49'44"	0.999	4.11999
2024-11-29	16:21	09:03	5h05m41s	22°09'50"	169°48'04"	1.000	4.09615

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-11-01	15:11	01:45	23h00m24s	-8°40'57"	123°50'20"	0.998	9.08354
2024-11-08	14:43	01:17	22h59m52s	-8°43'05"	116°41'38"	0.998	9.18369
2024-11-15	14:16	00:49	22h59m39s	-8°43'13"	109°36'42"	0.998	9.29028
2024-11-22	13:48	00:22	22h59m45s	-8°41'20"	102°35'36"	0.998	9.40166
2024-11-29	13:21	23:51	23h00m10s	-8°37'28"	95°38'16"	0.997	9.51619

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-11-01	17:04	08:59	3h34m32s	18°58'25"	163°10'32"	1.000	18.61355
2024-11-08	16:36	08:30	3h33m22s	18°54'28"	170°28'23"	1.000	18.58676
2024-11-15	16:07	08:00	3h32m11s	18°50'22"	177°47'19"	1.000	18.57497
2024-11-22	15:39	07:31	3h30m59s	18°46'14"	174°50'18"	1.000	18.57835
2024-11-29	15:11	07:02	3h29m48s	18°42'09"	167°28'24"	1.000	18.59693

Neptune

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-11-01	15:28	03:13	23h52m57s	-2°12'06"	138°25'25"	1.000	29.14625
2024-11-08	15:00	02:45	23h52m30s	-2°14'52"	131°17'17"	1.000	29.23280
2024-11-15	14:32	02:17	23h52m08s	-2°17'04"	124°09'14"	1.000	29.32913
2024-11-22	14:05	01:49	23h51m51s	-2°18'39"	117°01'20"	1.000	29.43377
2024-11-29	13:37	01:21	23h51m40s	-2°19'37"	109°53'38"	1.000	29.54523