

Astronomical Almanac for 2018 November

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: 07:12	SR: 07:14	SR: 07:16
				SS: 16:39	SS: 16:37	SS: 16:35
				MR: None	MR: 00:03	MR: 01:24
				MS: 14:37	MS: 15:06	MS: 15:30
4	5	6	7	8	9	10
SR: 07:18	SR: 07:20	SR: 07:22	SR: 07:24	SR: 07:26	SR: 07:27	SR: 07:29
SS: 16:33	SS: 16:31	SS: 16:29	SS: 16:27	SS: 16:26	SS: 16:24	SS: 16:22
MR: 02:44	MR: 04:04	MR: 05:23	MR: 06:41	MR: 07:56	MR: 09:09	MR: 10:16
MS: 15:52	MS: 16:12	MS: 16:33	MS: 16:56	MS: 17:21	MS: 17:52	MS: 18:28
			NM: 16:03			
11	12	13	14	15	16	17
SR: 07:31	SR: 07:33	SR: 07:35	SR: 07:37	SR: 07:39	SR: 07:41	SR: 07:43
SS: 16:20	SS: 16:19	SS: 16:17	SS: 16:16	SS: 16:14	SS: 16:12	SS: 16:11
MR: 11:15	MR: 12:06	MR: 12:48	MR: 13:21	MR: 13:49	MR: 14:12	MR: 14:32
MS: 19:12	MS: 20:04	MS: 21:01	MS: 22:04	MS: 23:09	MS: None	MS: 00:17
				FQ: 14:54		
18	19	20	21	22	23	24
SR: 07:44	SR: 07:46	SR: 07:48	SR: 07:50	SR: 07:52	SR: 07:53	SR: 07:55
SS: 16:10	SS: 16:08	SS: 16:07	SS: 16:06	SS: 16:04	SS: 16:03	SS: 16:02
MR: 14:51	MR: 15:09	MR: 15:28	MR: 15:50	MR: 16:14	MR: 16:45	MR: 17:25
MS: 01:25	MS: 02:36	MS: 03:49	MS: 05:04	MS: 06:22	MS: 07:41	MS: 08:59
					FM: 05:41	
25	26	27	28	29	30	
SR: 07:57	SR: 07:59	SR: 08:00	SR: 08:02	SR: 08:03	SR: 08:05	
SS: 16:01	SS: 16:00	SS: 15:59	SS: 15:58	SS: 15:57	SS: 15:56	
MR: 18:16	MR: 19:19	MR: 20:32	MR: 21:51	MR: 23:11	MR: None	
MS: 10:11	MS: 11:13	MS: 12:03	MS: 12:42	MS: 13:13	MS: 13:38	
	Jup Con	Mer ICon			LQ: 00:21	

Meteor Showers Report for 2018-11-01 to 2018-11-30

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2018-11-18	Leonids	10	10h08m	22°	0.72	235°

Planet View Info Report for 2018-11-01 to 2018-11-30

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-11-01	09:42	17:07	15h53m06s	-22°54'02"	22°37'48"	0.737	1.12127
2018-11-08	09:59	17:00	16h25m42s	-24°29'22"	23°15'53"	0.601	0.99118
2018-11-15	09:51	16:50	16h45m45s	-24°42'40"	20°44'35"	0.387	0.84385
2018-11-22	09:00	16:28	16h39m06s	-23°00'37"	11°51'18"	0.110	0.71440
2018-11-29	07:31	15:52	16h04m27s	-19°20'09"	4°04'53"	0.013	0.68455

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-11-01	06:42	15:43	13h43m43s	-16°14'10"	10°01'13"	0.014	0.27511
2018-11-08	05:48	15:24	13h33m59s	-13°28'15"	19°07'44"	0.053	0.29093
2018-11-15	05:06	15:06	13h31m12s	-11°20'38"	27°19'49"	0.112	0.31829
2018-11-22	04:36	14:50	13h35m36s	-10°08'00"	33°46'52"	0.176	0.35446
2018-11-29	04:17	14:35	13h46m12s	-9°49'30"	38°32'48"	0.240	0.39691

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-11-01	14:38	23:36	21h37m17s	-16°37'05"	102°38'46"	0.860	0.78805
2018-11-08	14:16	23:35	21h52m46s	-14°59'37"	99°41'24"	0.858	0.83716
2018-11-15	13:54	23:33	22h08m40s	-13°16'43"	96°51'43"	0.858	0.88785
2018-11-22	13:32	23:33	22h24m50s	-11°29'03"	94°08'17"	0.858	0.93996
2018-11-29	13:10	23:32	22h41m13s	-9°37'23"	91°29'29"	0.859	0.99343

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-11-01	09:04	17:25	15h45m08s	-19°06'53"	19°52'12"	0.999	6.28976
2018-11-08	08:45	17:02	15h51m25s	-19°27'19"	14°22'51"	0.999	6.31914
2018-11-15	08:26	16:38	15h57m50s	-19°47'06"	8°53'39"	1.000	6.33819
2018-11-22	08:07	16:15	16h04m19s	-20°06'05"	3°25'53"	1.000	6.34673
2018-11-29	07:48	15:52	16h10m51s	-20°24'09"	2°14'43"	1.000	6.34472

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-11-01	12:06	19:34	18h21m10s	-22°45'44"	56°22'18"	0.998	10.59694
2018-11-08	11:41	19:10	18h23m46s	-22°45'09"	49°57'18"	0.999	10.68986
2018-11-15	11:16	18:45	18h26m34s	-22°44'13"	43°33'53"	0.999	10.77438
2018-11-22	10:51	18:21	18h29m35s	-22°42'55"	37°11'58"	0.999	10.84946
2018-11-29	10:26	17:57	18h32m44s	-22°41'15"	30°51'11"	0.999	10.91429

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-11-01	16:16	06:29	1h53m19s	11°01'35"	171°41'31"	1.000	18.88813
2018-11-08	15:48	06:00	1h52m15s	10°55'49"	164°24'25"	1.000	18.91386
2018-11-15	15:20	05:31	1h51m14s	10°50'20"	157°06'19"	1.000	18.95424
2018-11-22	14:52	05:02	1h50m18s	10°45'15"	149°48'07"	1.000	19.00858
2018-11-29	14:24	04:33	1h49m26s	10°40'41"	142°30'10"	1.000	19.07597