

Astronomical Almanac for 2018 October

Blackpool, Lancs

Latitude: 53°49'00" N Longitude: 3°02'00" W

Elevation: 5 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
	SR: 06:14	SR: 06:15	SR: 06:17	SR: 06:19	SR: 06:21	SR: 06:23
	SS: 17:49	SS: 17:46	SS: 17:44	SS: 17:42	SS: 17:39	SS: 17:37
	MR: 21:35	MR: 22:33	MR: 23:41	MR: None	MR: 00:58	MR: 02:20
	MS: 13:21	MS: 14:24	MS: 15:17	MS: 15:59	MS: 16:33	MS: 17:01
		LQ: 09:47				
7	8	9	10	11	12	13
SR: 06:25	SR: 06:26	SR: 06:28	SR: 06:30	SR: 06:32	SR: 06:34	SR: 06:36
SS: 17:34	SS: 17:32	SS: 17:30	SS: 17:27	SS: 17:25	SS: 17:23	SS: 17:20
MR: 03:43	MR: 05:05	MR: 06:26	MR: 07:46	MR: 09:03	MR: 10:17	MR: 11:26
MS: 17:26	MS: 17:48	MS: 18:09	MS: 18:31	MS: 18:55	MS: 19:23	MS: 19:56
		NM: 03:48				
14	15	16	17	18	19	20
SR: 06:38	SR: 06:39	SR: 06:41	SR: 06:43	SR: 06:45	SR: 06:47	SR: 06:49
SS: 17:18	SS: 17:16	SS: 17:13	SS: 17:11	SS: 17:09	SS: 17:06	SS: 17:04
MR: 12:29	MR: 13:24	MR: 14:10	MR: 14:48	MR: 15:19	MR: 15:45	MR: 16:07
MS: 20:36	MS: 21:23	MS: 22:16	MS: 23:16	MS: None	MS: 00:20	MS: 01:26
		FQ: 18:02				
21	22	23	24	25	26	27
SR: 06:51	SR: 06:53	SR: 06:55	SR: 06:57	SR: 06:58	SR: 07:00	SR: 07:02
SS: 17:02	SS: 17:00	SS: 16:58	SS: 16:55	SS: 16:53	SS: 16:51	SS: 16:49
MR: 16:27	MR: 16:46	MR: 17:05	MR: 17:25	MR: 17:48	MR: 18:15	MR: 18:49
MS: 02:35	MS: 03:45	MS: 04:57	MS: 06:11	MS: 07:27	MS: 08:44	MS: 10:01
			FM: 16:48			Ven ICon
			Ura Opp			
28	29	30	31			
SR: 07:04	SR: 07:06	SR: 07:08	SR: 07:10			
SS: 16:47	SS: 16:45	SS: 16:43	SS: 16:41			
MR: 19:31	MR: 20:25	MR: 21:30	MR: 22:44			
MS: 11:14	MS: 12:21	MS: 13:17	MS: 14:02			
			LQ: 16:42			

Twilight Report for 2018-10-01 to 2018-10-31

Date	Sun		Astronomical		Nautical		Civil	
	Rise	Set	Begin	End	Begin	End	Begin	End
2018-10-01	06:14	17:49	04:10	19:53	04:52	19:10	05:33	18:30
2018-10-08	06:26	17:32	04:24	19:35	05:05	18:53	05:46	18:13
2018-10-15	06:39	17:16	04:37	19:18	05:18	18:37	05:58	17:57
2018-10-22	06:53	17:00	04:49	19:03	05:30	18:23	06:11	17:42
2018-10-29	07:06	16:45	05:01	18:50	05:42	18:09	06:23	17:28

Meteor Showers Report for 2018-10-01 to 2018-10-31

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2018-10-14	Piscids	??	1h44m	14°	0.25	200°
2018-10-23	Orionids	25	6h24m	15°	0.97	209°

Planet View Info Report for 2018-10-01 to 2018-10-31

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-10-01	07:00	18:03	12h57m45s	-5°33'06"	7°41'35"	0.976	1.40558
2018-10-08	07:42	17:49	13h39m14s	-10°33'25"	12°10'09"	0.944	1.38239
2018-10-15	08:22	17:34	14h19m32s	-15°01'47"	16°02'14"	0.903	1.33488
2018-10-22	08:58	17:22	14h59m03s	-18°51'00"	19°18'08"	0.851	1.26416
2018-10-29	09:30	17:11	15h37m25s	-21°52'58"	21°50'47"	0.778	1.16949

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-10-01	10:00	17:48	14h22m47s	-21°24'10"	33°15'49"	0.172	0.36084
2018-10-08	09:37	17:17	14h23m26s	-21°59'21"	27°01'00"	0.110	0.32325
2018-10-15	08:59	16:46	14h16m55s	-21°34'10"	19°01'54"	0.053	0.29422
2018-10-22	08:07	16:18	14h04m22s	-19°59'55"	10°03'45"	0.015	0.27651
2018-10-29	07:07	15:53	13h49m31s	-17°28'03"	6°57'55"	0.007	0.27246

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-10-01	16:22	23:56	20h37m26s	-22°32'37"	118°06'14"	0.885	0.59242
2018-10-08	15:57	23:49	20h49m10s	-21°24'11"	114°09'33"	0.876	0.63315
2018-10-15	15:34	23:44	21h02m08s	-20°08'33"	110°31'10"	0.870	0.67606
2018-10-22	15:11	23:40	21h16m06s	-18°46'02"	107°08'11"	0.865	0.72090
2018-10-29	14:48	23:37	21h30m48s	-17°17'05"	103°57'26"	0.861	0.76753

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-10-01	10:30	19:12	15h19m28s	-17°32'53"	44°18'51"	0.996	6.04577
2018-10-08	10:10	18:48	15h24m53s	-17°54'09"	38°45'23"	0.997	6.11596
2018-10-15	09:50	18:23	15h30m33s	-18°15'33"	33°13'31"	0.997	6.17777
2018-10-22	09:31	17:59	15h36m25s	-18°36'54"	27°43'01"	0.998	6.23062
2018-10-29	09:12	17:36	15h42m29s	-18°57'58"	22°13'22"	0.999	6.27409

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-10-01	13:59	21:28	18h12m53s	-22°45'06"	85°11'57"	0.998	10.11644
2018-10-08	13:33	21:02	18h14m15s	-22°45'37"	78°37'07"	0.998	10.23142
2018-10-15	13:07	20:36	18h15m55s	-22°45'57"	72°04'52"	0.998	10.34380
2018-10-22	12:42	20:10	18h17m53s	-22°46'03"	65°35'13"	0.998	10.45204
2018-10-29	12:16	19:45	18h20m08s	-22°45'53"	59°07'47"	0.998	10.55484

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-10-01	18:20	08:38	1h58m02s	11°27'14"	156°18'33"	1.000	18.95339
2018-10-08	17:52	08:09	1h57m02s	11°21'45"	163°27'54"	1.000	18.91355
2018-10-15	17:24	07:40	1h55m58s	11°15'58"	170°39'32"	1.000	18.88805
2018-10-22	16:56	07:11	1h54m53s	11°10'03"	177°50'08"	1.000	18.87738
2018-10-29	16:28	06:42	1h53m47s	11°04'06"	174°48'00"	1.000	18.88169