

# Astronomical Almanac for 2018 September

Blackpool, Lancs

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

Elevation: 5 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
						SR: 05:20
						SS: 19:03
						MR: 21:42
						MS: 11:51
2	3	4	5	6	7	8
SR: 05:22	SR: 05:24	SR: 05:26	SR: 05:27	SR: 05:29	SR: 05:31	SR: 05:33
SS: 19:00	SS: 18:58	SS: 18:55	SS: 18:53	SS: 18:51	SS: 18:48	SS: 18:46
MR: 22:13	MR: 22:52	MR: 23:42	MR: None	MR: 00:45	MR: 01:59	MR: 03:21
MS: 13:05	MS: 14:19	MS: 15:28	MS: 16:29	MS: 17:20	MS: 18:01	MS: 18:34
	LQ: 02:39					Nep Opp
9	10	11	12	13	14	15
SR: 05:35	SR: 05:36	SR: 05:38	SR: 05:40	SR: 05:42	SR: 05:43	SR: 05:45
SS: 18:43	SS: 18:41	SS: 18:38	SS: 18:36	SS: 18:33	SS: 18:31	SS: 18:28
MR: 04:46	MR: 06:10	MR: 07:33	MR: 08:53	MR: 10:11	MR: 11:25	MR: 12:35
MS: 19:01	MS: 19:25	MS: 19:47	MS: 20:08	MS: 20:31	MS: 20:57	MS: 21:27
NM: 18:03						
16	17	18	19	20	21	22
SR: 05:47	SR: 05:49	SR: 05:50	SR: 05:52	SR: 05:54	SR: 05:56	SR: 05:58
SS: 18:26	SS: 18:23	SS: 18:21	SS: 18:19	SS: 18:16	SS: 18:14	SS: 18:11
MR: 13:40	MR: 14:39	MR: 15:29	MR: 16:12	MR: 16:47	MR: 17:16	MR: 17:41
MS: 22:02	MS: 22:44	MS: 23:33	MS: None	MS: 00:29	MS: 01:30	MS: 02:35
FQ: 23:16					Mer SCon	
23	24	25	26	27	28	29
SR: 05:59	SR: 06:01	SR: 06:03	SR: 06:05	SR: 06:06	SR: 06:08	SR: 06:10
SS: 18:09	SS: 18:06	SS: 18:04	SS: 18:01	SS: 17:59	SS: 17:56	SS: 17:54
MR: 18:03	MR: 18:22	MR: 18:41	MR: 19:01	MR: 19:21	MR: 19:45	MR: 20:14
MS: 03:42	MS: 04:52	MS: 06:02	MS: 07:14	MS: 08:27	MS: 09:41	MS: 10:57
SEQ:01:53		FM: 02:55				
30						
SR: 06:12						
SS: 17:51						
MR: 20:50						
MS: 12:11						

## Meteor Showers Report for 2018-09-01 to 2018-09-30

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2018-09-09	Piscids	10	0h36m	7°	0.01	166°
2018-09-21	Piscids	5	0h24m	0°	0.85	178°

## Planet View Info Report for 2018-09-01 to 2018-09-30

## Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-09-01	03:39	18:39	9h36m46s	14°58'46"	16°57'21"	0.648	1.05650
2018-09-08	04:19	18:38	10h23m53s	11°45'26"	11°57'58"	0.876	1.22440
2018-09-15	05:10	18:31	11h13m50s	6°53'51"	5°42'10"	0.979	1.33593
2018-09-22	06:00	18:20	12h01m18s	1°25'07"	1°38'01"	0.999	1.39226
2018-09-29	06:47	18:07	12h45m35s	-4°02'34"	6°18'12"	0.983	1.40725

## Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-09-01	09:59	19:47	13h22m08s	-12°06'19"	45°03'54"	0.403	0.57225
2018-09-08	10:08	19:22	13h41m47s	-14°55'56"	43°50'05"	0.357	0.51876
2018-09-15	10:13	18:55	13h58m55s	-17°26'24"	41°51'58"	0.306	0.46707
2018-09-22	10:13	18:27	14h12m33s	-19°32'00"	38°55'49"	0.251	0.41800
2018-09-29	10:04	17:57	14h21m21s	-21°04'59"	34°44'12"	0.190	0.37281

## Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-09-01	18:18	00:59	20h08m37s	-25°56'59"	139°52'43"	0.941	0.44886
2018-09-08	17:49	00:39	20h11m26s	-25°23'45"	133°56'11"	0.926	0.47694
2018-09-15	17:21	00:23	20h16m52s	-24°41'02"	128°33'40"	0.911	0.50872
2018-09-22	16:54	00:10	20h24m38s	-23°49'49"	123°42'19"	0.898	0.54362
2018-09-29	16:29	00:00	20h34m21s	-22°50'50"	119°17'37"	0.887	0.58122

## Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-09-01	11:59	20:59	14h59m49s	-16°08'29"	68°38'48"	0.992	5.66742
2018-09-08	11:37	20:34	15h03m49s	-16°26'40"	62°52'14"	0.993	5.76511
2018-09-15	11:16	20:09	15h08m12s	-16°45'57"	57°09'38"	0.994	5.85775
2018-09-22	10:56	19:44	15h12m56s	-17°06'06"	51°30'36"	0.995	5.94439
2018-09-29	10:35	19:19	15h17m59s	-17°26'52"	45°54'28"	0.996	6.02428

## Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-09-01	15:54	23:24	18h10m50s	-22°41'20"	113°58'14"	0.998	9.63062
2018-09-08	15:27	22:57	18h10m45s	-22°42'23"	107°10'02"	0.998	9.73928
2018-09-15	15:00	22:29	18h11m01s	-22°43'21"	100°25'05"	0.998	9.85206
2018-09-22	14:33	22:02	18h11m37s	-22°44'12"	93°43'34"	0.998	9.96727
2018-09-29	14:07	21:36	18h12m33s	-22°44'55"	87°05'14"	0.998	10.08333

## Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2018-09-01	20:19	10:41	2h01m19s	11°45'19"	126°12'24"	1.000	19.26487
2018-09-08	19:52	10:13	2h00m44s	11°42'06"	133°08'31"	1.000	19.17435
2018-09-15	19:24	09:44	2h00m02s	11°38'13"	140°08'07"	1.000	19.09372
2018-09-22	18:56	09:16	1h59m13s	11°33'44"	147°10'47"	1.000	19.02435
2018-09-29	18:28	08:47	1h58m19s	11°28'45"	154°16'24"	1.000	18.96729