

Astronomical Almanac for 2020 September

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	4	5
		SR: 05:21	SR: 05:23	SR: 05:25	SR: 05:27	SR: 05:28
		SS: 19:01	SS: 18:59	SS: 18:57	SS: 18:54	SS: 18:52
		MR: 19:22	MR: 19:38	MR: 19:52	MR: 20:05	MR: 20:18
		MS: 03:56	MS: 05:09	MS: 06:22	MS: 07:32	MS: 08:42
			FM: 05:23			
6	7	8	9	10	11	12
SR: 05:30	SR: 05:32	SR: 05:34	SR: 05:35	SR: 05:37	SR: 05:39	SR: 05:41
SS: 18:49	SS: 18:47	SS: 18:44	SS: 18:42	SS: 18:40	SS: 18:37	SS: 18:35
MR: 20:32	MR: 20:47	MR: 21:07	MR: 21:31	MR: 22:04	MR: 22:49	MR: 23:47
MS: 09:51	MS: 11:01	MS: 12:11	MS: 13:22	MS: 14:31	MS: 15:35	MS: 16:30
				LQ: 09:28		Nep Opp
13	14	15	16	17	18	19
SR: 05:43	SR: 05:44	SR: 05:46	SR: 05:48	SR: 05:50	SR: 05:51	SR: 05:53
SS: 18:32	SS: 18:30	SS: 18:27	SS: 18:25	SS: 18:22	SS: 18:20	SS: 18:17
MR: None	MR: 01:00	MR: 02:22	MR: 03:50	MR: 05:20	MR: 06:50	MR: 08:21
MS: 17:14	MS: 17:49	MS: 18:16	MS: 18:37	MS: 18:56	MS: 19:13	MS: 19:30
				NM: 11:01		
20	21	22	23	24	25	26
SR: 05:55	SR: 05:57	SR: 05:58	SR: 06:00	SR: 06:02	SR: 06:04	SR: 06:06
SS: 18:15	SS: 18:12	SS: 18:10	SS: 18:07	SS: 18:05	SS: 18:02	SS: 18:00
MR: 09:51	MR: 11:21	MR: 12:46	MR: 14:05	MR: 15:11	MR: 16:02	MR: 16:40
MS: 19:50	MS: 20:14	MS: 20:45	MS: 21:25	MS: 22:17	MS: 23:20	MS: None
		SEQ:13:30		FQ: 01:57		
27	28	29	30			
SR: 06:07	SR: 06:09	SR: 06:11	SR: 06:13			
SS: 17:57	SS: 17:55	SS: 17:53	SS: 17:50			
MR: 17:08	MR: 17:29	MR: 17:46	MR: 18:00			
MS: 00:31	MS: 01:44	MS: 02:58	MS: 04:10			

Meteor Showers Report for 2020-09-01 to 2020-09-30

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2020-09-08	Piscids	10	0h36m	7°	0.72	166°

Twilight Report for 2020-09-01 to 2020-09-30

Date	Sun		Astronomical		Nautical		Civil	
	Rise	Set	Begin	End	Begin	End	Begin	End
2020-09-01	05:21	19:01	03:02	21:21	03:53	20:30	04:39	19:44
2020-09-08	05:34	18:44	03:20	20:58	04:08	20:10	04:52	19:26
2020-09-15	05:46	18:27	03:37	20:36	04:22	19:51	05:05	19:08
2020-09-22	05:58	18:10	03:53	20:16	04:36	19:32	05:18	18:51
2020-09-29	06:11	17:53	04:07	19:56	04:49	19:14	05:30	18:33

Planet View Info Report for 2020-09-01 to 2020-09-30

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2020-09-01	06:38	19:26	11h32m00s	4°00'37"	12°59'54"	0.922	1.33958
2020-09-08	07:20	19:10	12h12m54s	-1°17'34"	17°40'11"	0.867	1.28952
2020-09-15	07:57	18:52	12h50m16s	-6°16'08"	21°24'00"	0.806	1.22083
2020-09-22	08:29	18:33	13h24m33s	-10°44'47"	24°08'51"	0.736	1.13530
2020-09-29	08:54	18:13	13h55m07s	-14°31'51"	25°40'33"	0.644	1.03336

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2020-09-01	01:14	17:12	7h43m22s	19°22'23"	44°45'39"	0.595	0.85456
2020-09-08	01:24	17:10	8h15m06s	18°24'38"	43°58'33"	0.626	0.90740
2020-09-15	01:38	17:05	8h47m10s	17°02'22"	43°02'06"	0.655	0.95918
2020-09-22	01:54	16:57	9h19m17s	15°16'24"	41°58'08"	0.683	1.00975
2020-09-29	02:12	16:48	9h51m18s	13°08'29"	40°47'48"	0.709	1.05903

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2020-09-01	20:35	09:57	1h48m34s	6°38'11"	131°18'46"	0.919	0.49558
2020-09-08	20:08	09:33	1h50m36s	6°50'09"	137°30'56"	0.936	0.46955
2020-09-15	19:39	09:04	1h49m54s	6°50'37"	144°26'43"	0.954	0.44747
2020-09-22	19:09	08:32	1h46m24s	6°40'17"	152°06'05"	0.971	0.43036
2020-09-29	18:37	07:57	1h40m25s	6°21'14"	160°22'47"	0.985	0.41923

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2020-09-01	16:58	00:32	19h16m36s	-22°40'58"	128°35'13"	0.994	4.44902
2020-09-08	16:30	00:03	19h15m47s	-22°42'51"	121°36'55"	0.993	4.53656
2020-09-15	16:02	23:32	19h15m38s	-22°43'27"	114°46'20"	0.992	4.63110
2020-09-22	15:35	23:05	19h16m11s	-22°42'47"	108°03'36"	0.991	4.73116
2020-09-29	15:09	22:39	19h17m23s	-22°40'51"	101°28'49"	0.991	4.83516

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2020-09-01	17:22	01:18	19h52m06s	-21°13'51"	136°56'35"	0.999	9.26166
2020-09-08	16:54	00:49	19h50m58s	-21°17'17"	129°53'34"	0.999	9.34578
2020-09-15	16:26	00:20	19h50m09s	-21°19'52"	122°53'12"	0.998	9.43909
2020-09-22	15:58	23:48	19h49m38s	-21°21'35"	115°55'47"	0.998	9.54016
2020-09-29	15:31	23:20	19h49m28s	-21°22'25"	109°01'42"	0.998	9.64736

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2020-09-01	20:32	11:28	2h33m14s	14°33'03"	118°27'05"	0.999	19.28924
2020-09-08	20:04	11:00	2h32m48s	14°30'52"	125°20'46"	1.000	19.18912
2020-09-15	19:37	10:32	2h32m13s	14°28'01"	132°18'13"	1.000	19.09727
2020-09-22	19:09	10:03	2h31m31s	14°24'32"	139°19'18"	1.000	19.01519
2020-09-29	18:41	09:34	2h30m41s	14°20'30"	146°23'36"	1.000	18.94426