

Astronomical Almanac for 2024 September

Blackpool, Lancs

Latitude: 53°49'08" N Longitude: 3°02'01" W

Elevation: 5 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
SR: 05:21	SR: 05:23	SR: 05:25	SR: 05:27	SR: 05:28	SR: 05:30	SR: 05:32
SS: 19:01	SS: 18:59	SS: 18:57	SS: 18:54	SS: 18:52	SS: 18:49	SS: 18:47
MR: 03:00	MR: 04:18	MR: 05:34	MR: 06:47	MR: 07:59	MR: 09:12	MR: 10:26
MS: 18:56	MS: 19:05	MS: 19:13	MS: 19:19	MS: 19:26	MS: 19:34	MS: 19:43
		NM: 01:57				
8	9	10	11	12	13	14
SR: 05:34	SR: 05:36	SR: 05:37	SR: 05:39	SR: 05:41	SR: 05:43	SR: 05:44
SS: 18:44	SS: 18:42	SS: 18:39	SS: 18:37	SS: 18:35	SS: 18:32	SS: 18:30
MR: 11:43	MR: 13:02	MR: 14:21	MR: 15:33	MR: 16:31	MR: 17:12	MR: 17:39
MS: 19:55	MS: 20:12	MS: 20:38	MS: 21:20	MS: 22:22	MS: 23:43	MS: None
Sat Opp			FQ: 06:07			
15	16	17	18	19	20	21
SR: 05:46	SR: 05:48	SR: 05:50	SR: 05:51	SR: 05:53	SR: 05:55	SR: 05:57
SS: 18:27	SS: 18:25	SS: 18:22	SS: 18:20	SS: 18:17	SS: 18:15	SS: 18:12
MR: 17:57	MR: 18:10	MR: 18:20	MR: 18:30	MR: 18:40	MR: 18:52	MR: 19:08
MS: 01:16	MS: 02:53	MS: 04:30	MS: 06:06	MS: 07:41	MS: 09:18	MS: 10:56
			FM: 02:37			Nep Opp
			LE: 02:47			
22	23	24	25	26	27	28
SR: 05:59	SR: 06:00	SR: 06:02	SR: 06:04	SR: 06:06	SR: 06:07	SR: 06:09
SS: 18:10	SS: 18:07	SS: 18:05	SS: 18:02	SS: 18:00	SS: 17:57	SS: 17:55
MR: 19:31	MR: 20:06	MR: 20:59	MR: 22:08	MR: 23:26	MR: None	MR: 00:47
MS: 12:32	MS: 13:59	MS: 15:10	MS: 15:59	MS: 16:31	MS: 16:52	MS: 17:05
SEQ:12:41		LQ: 18:53				
29	30					
SR: 06:11	SR: 06:13					
SS: 17:52	SS: 17:50					
MR: 02:06	MR: 03:22					
MS: 17:15	MS: 17:23					

Twilight Report for 2024-09-01 to 2024-09-30

Date	Sun		Astronomical		Nautical		Civil	
	Rise	Set	Begin	End	Begin	End	Begin	End
2024-09-01	05:21	19:01	03:02	21:21	03:53	20:30	04:39	19:44
2024-09-08	05:34	18:44	03:20	20:58	04:08	20:10	04:52	19:26
2024-09-15	05:46	18:27	03:37	20:36	04:23	19:51	05:05	19:08
2024-09-22	05:59	18:10	03:53	20:16	04:36	19:32	05:18	18:50
2024-09-29	06:11	17:52	04:07	19:56	04:50	19:14	05:30	18:33

Planet View Info Report for 2024-09-01 to 2024-09-30

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-09-01	03:47	18:24	9h36m18s	13°06'47"	17°00'56"	0.279	0.81952
2024-09-08	03:49	18:21	10h02m43s	12°43'30"	17°35'13"	0.579	1.00938
2024-09-15	04:23	18:17	10h45m37s	9°39'21"	13°33'39"	0.833	1.18860
2024-09-22	05:11	18:10	11h33m28s	4°50'40"	7°42'18"	0.961	1.31603
2024-09-29	06:00	17:59	12h20m04s	-0°35'29"	2°05'22"	0.998	1.38796

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-09-01	07:41	19:43	12h12m38s	-0°15'02"	23°57'43"	0.912	1.51772
2024-09-08	08:04	19:27	12h43m45s	-3°51'16"	25°43'53"	0.898	1.48433
2024-09-15	08:28	19:11	13h15m04s	-7°24'16"	27°28'11"	0.884	1.44913
2024-09-22	08:51	18:55	13h46m46s	-10°49'53"	29°10'22"	0.869	1.41230
2024-09-29	09:16	18:41	14h19m07s	-14°03'59"	30°50'11"	0.854	1.37399

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-09-01	22:48	15:48	5h49m52s	23°19'37"	71°23'11"	0.879	1.43118
2024-09-08	22:38	15:40	6h08m20s	23°27'53"	73°56'07"	0.877	1.38922
2024-09-15	22:28	15:31	6h26m16s	23°28'50"	76°38'09"	0.876	1.34571
2024-09-22	22:19	15:19	6h43m34s	23°23'21"	79°30'04"	0.875	1.30067
2024-09-29	22:09	15:07	7h00m09s	23°12'23"	82°33'09"	0.875	1.25410

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-09-01	22:17	15:01	5h12m28s	22°17'22"	80°02'53"	0.990	5.11819
2024-09-08	21:53	14:37	5h15m40s	22°20'43"	86°05'32"	0.990	5.01228
2024-09-15	21:27	14:13	5h18m18s	22°23'14"	92°17'28"	0.990	4.90560
2024-09-22	21:01	13:47	5h20m19s	22°25'00"	98°39'19"	0.990	4.79942
2024-09-29	20:35	13:21	5h21m41s	22°26'05"	105°11'56"	0.991	4.69502

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-09-01	19:17	06:06	23h14m12s	-7°17'33"	172°08'04"	1.000	8.68880
2024-09-08	18:49	05:36	23h12m14s	-7°30'29"	177°47'36"	1.000	8.68063
2024-09-15	18:20	05:05	23h10m16s	-7°43'10"	172°33'57"	1.000	8.68735
2024-09-22	17:52	04:34	23h08m20s	-7°55'19"	165°22'57"	1.000	8.70879
2024-09-29	17:24	04:04	23h06m30s	-8°06'37"	158°05'12"	1.000	8.74464

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-09-01	21:07	13:07	3h40m07s	19°17'22"	101°48'53"	0.999	19.34428
2024-09-08	20:40	12:39	3h40m03s	19°17'06"	108°37'09"	0.999	19.22973
2024-09-15	20:12	12:11	3h39m48s	19°16'17"	115°29'08"	0.999	19.11977
2024-09-22	19:44	11:43	3h39m24s	19°14'55"	122°24'54"	1.000	19.01599
2024-09-29	19:16	11:15	3h38m51s	19°13'03"	129°24'39"	1.000	18.91990

Neptune

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
2024-09-01	19:30	07:22	23h58m40s	-1°35'05"	159°57'47"	1.000	28.94744
2024-09-08	19:02	06:54	23h58m00s	-1°39'36"	166°54'34"	1.000	28.91521
2024-09-15	18:34	06:25	23h57m18s	-1°44'14"	173°49'49"	1.000	28.89723
2024-09-22	18:06	05:56	23h56m35s	-1°48'55"	178°20'23"	1.000	28.89374
2024-09-29	17:39	05:28	23h55m53s	-1°53'32"	171°50'24"	1.000	28.90489