

# Astronomical Almanac for 2021 January

Blackpool, Lancs

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

Elevation: 10 metres

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
					SR: 08:30	SR: 08:30
					SS: 16:02	SS: 16:03
					MR: 18:27	MR: 19:47
					MS: 10:28	MS: 10:55
3	4	5	6	7	8	9
SR: 08:29	SR: 08:29	SR: 08:29	SR: 08:28	SR: 08:28	SR: 08:27	SR: 08:27
SS: 16:04	SS: 16:06	SS: 16:07	SS: 16:08	SS: 16:10	SS: 16:11	SS: 16:13
MR: 21:09	MR: 22:32	MR: 23:55	MR: None	MR: 01:20	MR: 02:46	MR: 04:14
MS: 11:16	MS: 11:34	MS: 11:49	MS: 12:04	MS: 12:20	MS: 12:38	MS: 13:01
P'helion			LQ: 09:39			
10	11	12	13	14	15	16
SR: 08:26	SR: 08:25	SR: 08:24	SR: 08:23	SR: 08:23	SR: 08:22	SR: 08:21
SS: 16:14	SS: 16:16	SS: 16:17	SS: 16:19	SS: 16:20	SS: 16:22	SS: 16:24
MR: 05:41	MR: 07:03	MR: 08:12	MR: 09:04	MR: 09:42	MR: 10:09	MR: 10:28
MS: 13:32	MS: 14:14	MS: 15:12	MS: 16:23	MS: 17:42	MS: 19:02	MS: 20:20
			NM: 05:03		Plu Con	
17	18	19	20	21	22	23
SR: 08:19	SR: 08:18	SR: 08:17	SR: 08:16	SR: 08:15	SR: 08:13	SR: 08:12
SS: 16:26	SS: 16:27	SS: 16:29	SS: 16:31	SS: 16:33	SS: 16:35	SS: 16:37
MR: 10:44	MR: 10:57	MR: 11:09	MR: 11:21	MR: 11:35	MR: 11:50	MR: 12:10
MS: 21:35	MS: 22:47	MS: 23:58	MS: None	MS: 01:08	MS: 02:19	MS: 03:30
			FQ: 21:04			
24	25	26	27	28	29	30
SR: 08:11	SR: 08:09	SR: 08:08	SR: 08:06	SR: 08:05	SR: 08:03	SR: 08:01
SS: 16:38	SS: 16:40	SS: 16:42	SS: 16:44	SS: 16:46	SS: 16:48	SS: 16:50
MR: 12:35	MR: 13:09	MR: 13:56	MR: 14:56	MR: 16:09	MR: 17:30	MR: 18:54
MS: 04:41	MS: 05:50	MS: 06:53	MS: 07:45	MS: 08:26	MS: 08:57	MS: 09:21
Sat Con				FM: 19:19	Jup Con	
31						
SR: 08:00						
SS: 16:52						
MR: 20:18						
MS: 09:40						

## Meteor Showers Report for 2021-01-01 to 2021-01-31

Date	Meteor Shower	ZHR	RA	DEC	Illum. Frac.	Longitude
2021-01-04	Quadrantids	80	15h28m	50°	0.76	284°

## Planet View Info Report for 2021-01-01 to 2021-01-31

## Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST (AU)
2021-01-01	09:15	16:22	19h18m02s	-24°20'56"	7°15'10"	0.979	1.38955
2021-01-08	09:20	17:01	20h07m13s	-22°21'58"	11°27'46"	0.936	1.31061
2021-01-15	09:16	17:43	20h53m43s	-19°10'20"	15°32'42"	0.838	1.19002
2021-01-22	09:00	18:19	21h32m24s	-15°09'55"	18°21'02"	0.639	1.02406
2021-01-29	08:30	18:28	21h52m11s	-11°36'33"	16°59'00"	0.323	0.83334

## Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST (AU)
2021-01-01	07:00	14:35	17h18m30s	-22°26'07"	20°22'24"	0.941	1.55990
2021-01-08	07:16	14:41	17h56m28s	-23°04'19"	18°43'50"	0.950	1.58398
2021-01-15	07:26	14:51	18h34m40s	-23°08'06"	17°05'13"	0.959	1.60616
2021-01-22	07:33	15:06	19h12m43s	-22°37'05"	15°26'27"	0.966	1.62644
2021-01-29	07:34	15:25	19h50m20s	-21°32'15"	13°47'25"	0.973	1.64490

## Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST (AU)
2021-01-01	12:00	02:17	1h40m20s	11°20'53"	106°34'26"	0.891	0.89851
2021-01-08	11:36	02:08	1h52m07s	12°34'47"	102°34'20"	0.887	0.96268
2021-01-15	11:14	02:01	2h04m48s	13°49'47"	98°46'08"	0.886	1.02839
2021-01-22	10:52	01:55	2h18m18s	15°04'47"	95°08'27"	0.885	1.09525
2021-01-29	10:31	01:49	2h32m31s	16°18'42"	91°39'44"	0.885	1.16292

## Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST (AU)
2021-01-01	09:43	17:53	20h20m40s	-20°01'01"	21°59'10"	0.999	5.99510
2021-01-08	09:19	17:34	20h27m20s	-19°38'51"	16°27'57"	0.999	6.02966
2021-01-15	08:56	17:16	20h34m04s	-19°15'27"	10°58'19"	1.000	6.05415
2021-01-22	08:32	16:58	20h40m51s	-18°50'57"	5°30'34"	1.000	6.06829
2021-01-29	08:09	16:40	20h47m38s	-18°25'28"	0°31'28"	1.000	6.07208

## Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST (AU)
2021-01-01	09:39	17:46	20h15m54s	-20°10'21"	20°51'34"	1.000	10.91748
2021-01-08	09:14	17:23	20h19m15s	-19°59'53"	14°32'03"	1.000	10.95252
2021-01-15	08:48	17:00	20h22m40s	-19°49'00"	8°13'36"	1.000	10.97512
2021-01-22	08:23	16:38	20h26m06s	-19°37'47"	1°57'50"	1.000	10.98499
2021-01-29	07:57	16:15	20h29m33s	-19°26'19"	4°22'54"	1.000	10.98209

## Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST (AU)
2021-01-01	12:25	03:07	2h18m27s	13°21'25"	116°00'16"	1.000	19.32325
2021-01-08	11:57	02:39	2h18m13s	13°20'26"	108°48'41"	0.999	19.43419
2021-01-15	11:30	02:11	2h18m08s	13°20'18"	101°39'36"	0.999	19.54999
2021-01-22	11:02	01:44	2h18m14s	13°21'00"	94°33'31"	0.999	19.66878
2021-01-29	10:35	01:17	2h18m29s	13°22'33"	87°30'46"	0.999	19.78867