ECLIPSES, 2026

In the year 2026, there are two eclipses of the Sun and two eclipses of the Moon.

I	February	17	Annular eclipse of the Sun	320-323
II	March	3	Total eclipse of the Moon	328-330
III	August	12	Total eclipse of the Sun	324-327
IV	August	28	Partial eclipse of the Moon	331

I-Annular eclipse of the Sun, 17 February, 2026, Tuesday.

Not Visible in India

Area of Visibility

The eclipse will be visible in the region covering south Argentina, Chile, south Africa and Antarctica.

ELEMENTS OF THE ECLIPSE						
Universal Time of Conjunction in Right Ascension:February $17^{d}11^{h}18^{m}49^{s}.9$						
	MOON			SUN		
	h	m	s	h	m	s
Right Ascension	22	03	45.72	22	03	45.72
Hourly Motion			122.31			09.67
	°	'	"	°	'	"
Declination	-12	40	51.76	-11	53	28.88
Hourly Motion		14	14.98			52.66
Equatorial Horizontal Parallax		57	02.20			08.90
True Semi-diameter		15	31.77		16	11.11

CIRCUMSTANCES OF THE ECLIPSE										
	Universal Time			Indian Standard Time			Latitude		Longitude	
	d	h	m	d	h	m	°	'	°	'
Eclipse begins	17	09	56.6	17	15	26.6	-62	26.8	-79	31.3
Central eclipse begins	17	11	48.3	17	17	18.3	-71	57.4	+136	38.7
Greatest eclipse*	17	12	11.9	17	17	41.9	-64	43.1	+86	39.7
Central eclipse ends	17	12	36.1	17	18	06.1	-50	06.8	+99	01.3
Eclipse ends	17	14	27.6	17	19	57.6	-12	31.1	+59	15.7

*Magnitude of the eclipse= 0.962,Duration of eclipse =4h.31m.

Duration of Annular eclipse = 47.8m, Maximum duration of Annular phase =2m 23s

ECLIPSES, 2026

BESSELIAN ELEMENTS OF THE ANNULAR ECLIPSE OF THE SUN
FEBRUARY17

Terrestrial Time (TT)		Co-ordinates of the Centre of Shadow on the Fundamental Plane		Direction of the Axis of Shadow *					Radius of Penumbra and Umbra on the Fundamental Plane	
h	m	x	y	sin d	cos d	μ °	'	"	l_1	l_2
9	30	-0.884950	-1.515044	-0.206450	0.978457	319	00	34.0	0.557003	0.011981
	40	-0.804491	-1.475892	-0.206410	0.978465	321	30	35.2	0.556992	0.011971
	50	-0.724031	-1.436732	-0.206371	0.978474	324	00	36.3	0.556981	0.011959
10	00	-0.643570	-1.397565	-0.206331	0.978482	326	30	37.5	0.556969	0.011947
	10	-0.563109	-1.358390	-0.206291	0.978491	329	00	38.7	0.556956	0.011935
	20	-0.482648	-1.319208	-0.206251	0.978499	331	30	39.9	0.556943	0.011922
	30	-0.402187	-1.280018	-0.206211	0.978508	334	00	41.1	0.556930	0.011908
	40	-0.321726	-1.240821	-0.206171	0.978516	336	30	42.3	0.556915	0.011894
	50	-0.241266	-1.201617	-0.206131	0.978524	339	00	43.4	0.556901	0.011879
11	00	-0.160806	-1.162407	-0.206091	0.978533	341	30	44.6	0.556885	0.011864
	10	-0.080347	-1.123189	-0.206051	0.978541	344	00	45.8	0.556869	0.011848
	20	0.000111	-1.083964	-0.206011	0.978550	346	30	47.0	0.556853	0.011831
	30	0.080568	-1.044733	-0.205971	0.978558	349	00	48.2	0.556835	0.011814
	40	0.161024	-1.005495	-0.205931	0.978567	351	30	49.4	0.556818	0.011796
	50	0.241478	-0.966250	-0.205891	0.978575	354	00	50.6	0.556799	0.011778
12	00	0.321931	-0.926999	-0.205851	0.978583	356	30	51.7	0.556780	0.011759
	10	0.402382	-0.887741	-0.205811	0.978592	359	00	52.9	0.556760	0.011739
	20	0.482831	-0.848478	-0.205771	0.978600	361	30	54.1	0.556740	0.011719
	30	0.563277	-0.809208	-0.205731	0.978609	364	00	55.3	0.556719	0.011698
	40	0.643722	-0.769931	-0.205691	0.978617	366	30	56.5	0.556698	0.011677
	50	0.724164	-0.730649	-0.205651	0.978625	369	00	57.7	0.556676	0.011655
13	00	0.804603	-0.691361	-0.205611	0.978634	371	30	58.9	0.556653	0.011632
	10	0.885039	-0.652067	-0.205571	0.978642	374	01	00.1	0.556630	0.011609
	20	0.965472	-0.612768	-0.205531	0.978651	376	31	01.3	0.556606	0.011585
	30	1.045902	-0.573462	-0.205491	0.978659	379	01	02.4	0.556582	0.011561
	40	1.126329	-0.534152	-0.205451	0.978667	381	31	03.6	0.556557	0.011536
	50	1.206752	-0.494835	-0.205411	0.978676	384	01	04.8	0.556531	0.011510
14	00	1.287171	-0.455513	-0.205371	0.978684	386	31	06.0	0.556505	0.011484
	10	1.367587	-0.416186	-0.205331	0.978693	389	01	07.2	0.556478	0.011457
	20	1.447998	-0.376854	-0.205291	0.978701	391	31	08.4	0.556451	0.011429
	30	1.528405	-0.337517	-0.205251	0.978709	394	01	09.6	0.556423	0.011401
	40	1.608808	-0.298174	-0.205211	0.978718	396	31	10.8	0.556394	0.011373
	50	1.689206	-0.258827	-0.205171	0.978726	399	01	12.0	0.556365	0.011343
15	00	1.769599	-0.219475	-0.205130	0.978735	401	31	13.2	0.556335	0.011314

tanf1= 0.00473973 tanf2= 0.00471615

TT	d			Variations per minute				
hr	°	'	"	x'	y'	μ'		"
9	-11	55	17	+0.008 045	+0.003 912	15	00	
10	-11	54	27	+0.008 046	+0.003 917	15	00	
11	-11	53	36	+0.008 045	+0.003 921	15	00	
12	-11	52	46	+0.008 045	+0.003 925	15	00	
13	-11	51	55	+0.008415	+0.003 932	15	00	
14	-11	51	04	+0.008 041	+0.003 933	15	00	

$\xi' = 0.004364\rho\cos\phi'\cos(\mu+\lambda)$ $\eta' = 0.004364\xi\sin d$

*d stands for declination and μ stands for hourangle

ECLIPSES, 2026

PATH OF CENTRAL PHASE DURING THE ANNULAR ECLIPSE OF THE SUN
FEBRUARY17

Terrestrial Time (TT)		Northern Limit		Central Line		Southern Limit		Central Line
		Latitude	Longitude	Latitude	Longitude	Latitude	Longitude	Duration of Annularity
		o '	o '	o'	o '	o '	o '	m s
Limit		-73 54.0	+144 31.3	- 57.5	+136 38.8	-69 12.0	+128 20.4	- -
h	m			71				
11	50	-75 39.5	+103 54.7		+121 51.7	- -	- -	2 23.7
12	00	-70 51.6	+86 35.2	- 51.7	+95 23.3	-69 44.3	+108 03.7	2 23.2
	10	-65 41.2	+81 11.5	73 42.0	+87 25.3	65 21.6	+95 40.5	2 22.8
	20	-60 35.7	+80 19.2	-	+85 46.7	60 09.2	+93 14.7	2 22.5
	30	-55 26.0	+82 29.6	70	+88 39.0	- -	- -	2 22.4
Limit		-47 31.9	+96 26.0	- 42.4	+99 01.0	-53 24.8	+102 35.1	- -
				65				
				- 33.6				
				60				
				- 06.7				
				55 06.6				
				-				
				50				

ECLIPSES, 2026

III- Total eclipse of the Sun,12August, 2026,Wednesday.

Not Visible in India

Area of Visibility

The eclipse will be visible in the region covering western Europe, western Africa, North America, Greenland, the north Atlantic Ocean, and the north Pacific Ocean.

ELEMENTS OF THE ECLIPSE						
Universal Time of Conjunction in Right Ascension :August $12^{d}17^{h}03^{m}52^{s}.50$						
	MOON			SUN		
	h	m	s	h	m	s
Right Ascension	9	29	40.67	9	29	40.65
Hourly Motion			137.88			09.43
	°	'	"	°	'	"
Declination	+15	18	00.73	+14	47	05.49
Hourly Motion		–14	40.59			–45.47
Equatorial Horizontal Parallax		59	43.41			08.68
True Semi-diameter		16	16.07		15	47.07

CIRCUMSTANCES OF THE ECLIPSE										
	Universal Time			Indian Standard Time			Latitude		Longitude	
	d	h	m	d	h	m	°	'	°	'
Eclipse begins	12	15	34.3	12	21	04.3	56	42.5	-166	05.8
Totality of Eclipse begins	12	17	00.1	12	22	30.1	75	04.7	+113	26.6
Greatest eclipse*	12	17	45.9	12	23	15.9	65	13.4	-25	18.9
Totality of Eclipse ends	12	18	32.2	13	00	02.2	38	40.8	+05	24.3
Eclipse ends	12	19	57.9	13	01	27.9	11	27.9	-25	09.3

*Magnitude of the eclipse = 1.038, Duration of eclipse = 4 h. 24 m.
Duration of Total eclipse = 1h 32.1m, Maximum duration of Totality = 2m. 16s.

ECLIPSES, 2026

BESSELIAN ELEMENTS OF THE TOTAL ECLIPSE OF THE SUN

AUGUST 12

Terrestrial Time (TT)		Co-ordinates of the Centre of Shadow on the Fundamental Plane		Direction of the Axis of Shadow *					Radius of Penumbra and Umbra on the Fundamental Plane	
h	m	x	y	sin d	cos d		μ		l_1	l_2
						°	′	″		
15	00	-1.081742	+1.460466	+0.256000	+0.966677	43	44	18.6	+0.536690	-0.008331
	10	-0.995215	+1.422243	+0.255966	+0.966686	46	14	20.4	+0.536718	-0.008303
	20	-0.908688	+1.384011	+0.255932	+0.966695	48	44	22.3	+0.536744	-0.008277
	30	-0.822162	+1.345771	+0.255898	+0.966704	51	14	24.1	+0.536770	-0.008251
	40	-0.735637	+1.307522	+0.255865	+0.966713	53	44	25.9	+0.536796	-0.008225
	50	-0.649114	+1.269265	+0.255831	+0.966722	56	14	27.8	+0.536821	-0.008200
16	00	-0.562591	+1.231000	+0.255797	+0.966731	58	44	29.6	+0.536845	-0.008176
	10	-0.476070	+1.192726	+0.255763	+0.966740	61	14	31.5	+0.536868	-0.008153
	20	-0.389551	+1.154444	+0.255729	+0.966749	63	44	33.3	+0.536891	-0.008130
	30	-0.303034	+1.116155	+0.255695	+0.966758	66	14	35.2	+0.536913	-0.008108
	40	-0.216520	+1.077857	+0.255661	+0.966766	68	44	37.0	+0.536934	-0.008087
	50	-0.130007	+1.039552	+0.255627	+0.966775	71	14	38.9	+0.536955	-0.008066
17	00	-0.043497	+1.001239	+0.255593	+0.966784	73	44	40.7	+0.536975	-0.008046
	10	+0.043010	+0.962918	+0.255559	+0.966793	76	14	42.6	+0.536995	-0.008026
	20	+0.129514	+0.924590	+0.255525	+0.966802	78	44	44.4	+0.537013	-0.008008
	30	+0.216014	+0.886255	+0.255492	+0.966811	81	14	46.3	+0.537031	-0.007990
	40	+0.302511	+0.847911	+0.255458	+0.966820	83	44	48.1	+0.537048	-0.007973
	50	+0.389005	+0.809561	+0.255424	+0.966829	86	14	50.0	+0.537065	-0.007956
18	00	+0.475494	+0.771203	+0.255390	+0.966838	88	44	51.8	+0.537081	-0.007940
	10	+0.561980	+0.732839	+0.255356	+0.966847	91	14	53.7	+0.537096	-0.007925
	20	+0.648461	+0.694467	+0.255322	+0.966856	93	44	55.5	+0.537110	-0.007911
	30	+0.734937	+0.656088	+0.255288	+0.966865	96	14	57.4	+0.537124	-0.007897
	40	+0.821409	+0.617703	+0.255254	+0.966874	98	44	59.2	+0.537137	-0.007884
	50	+0.907876	+0.579310	+0.255220	+0.966883	101	15	01.1	+0.537149	-0.007872
19	00	+0.994337	+0.540911	+0.255186	+0.966892	103	45	03.0	+0.537161	-0.007860
	10	+1.080793	+0.502505	+0.255152	+0.966901	106	15	04.8	+0.537171	-0.007850
	20	+1.167244	+0.464093	+0.255118	+0.966910	108	45	06.7	+0.537181	-0.007840
	30	+1.253688	+0.425675	+0.255084	+0.966919	111	15	08.5	+0.537191	-0.007830
	40	+1.340127	+0.387250	+0.255050	+0.966928	113	45	10.4	+0.537199	-0.007822
	50	+1.426559	+0.348818	+0.255016	+0.966937	116	15	12.2	+0.537207	-0.007814
20	00	+1.512985	+0.310381	+0.254982	+0.966946	118	45	14.1	+0.537214	-0.007807
	10	+1.599404	+0.271937	+0.254948	+0.966955	121	15	15.9	+0.537220	-0.007801
	20	+1.685816	+0.233488	+0.254914	+0.966964	123	45	17.8	+0.537226	-0.007795
	30	+1.772221	+0.195032	+0.254880	+0.966973	126	15	19.6	+0.537231	-0.007790

tanf1= 0.00462146

tanf2= 0.00459848

TT	d	Variations per minute		
hr	° ′ ″	x'	y'	′ μ′ ″

15	14	49	58	+0.008 653	-0.003 822	15	00
16	14	49	15	+0.008 652	-0.003 827	15	00
17	14	48	31	+0.008 651	-0.003 832	15	00
18	14	47	48	+0.008 649	-0.003 837	15	00
19	14	47	05	+0.008 642	-0.003 844	15	00
20	14	46	21	+0.008 641	-0.003 845	15	00

$\xi' = 0.004364\rho\cos\phi' \cos(\mu+\lambda)$ $\eta' = 0.004364\xi\sin d$

*d stands for declination and μ stands for hour angle

ECLIPSES, 2026

PATH OF CENTRAL PHASE DURING THE TOTAL ECLIPSE OF THE SUN
AUGUST 12

Terrestrial Time (TT)	Northern Limit		Central Line		Southern Limit		Central Line
	Latitude	Longitude	Latitude	Longitude	Latitude	Longitude	Duration of Totality
	° ′	° ′	° ′	° ′	° ′	° ′	m s
Limit	+75 10.5	+108 32.9	+75 04.7	+113 26.5	+74 54.5	+118 04.1	- -
h m							
10	+86 34.4	+32 47.6	+86 51.5	-1 17.4	+86 10.8	-28 44.4	1 57.8
20	+80 27.7	-18 58.7	+79 47.8	-26 58.6	+79 00.9	-33 38.9	2 07.3
30	+74 17.1	-23 14.8	+73 42.2	-27 48.0	+73 04.0	-31 54.5	2 12.8
40	+68 44.7	-23 01.9	+68 15.9	-26 25.5	+67 44.6	-29 35.1	2 15.2
50	+63 34.5	-21 27.5	+63 11.4	-24 18.2	+62 46.1	-26 59.8	2 15.2
18 00	+58 34.8	-19 01.2	+58 17.3	-21 35.6	+57 57.7	-24 02.7	2 12.6
10	+53 34.1	-15 35.2	+53 23.3	-18 04.8	+53 10.0	-20 27.3	2 07.4
20	+48 14.2	-10 22.2	+48 13.8	-13 04.8	+48 09.6	-15 36.6	1 58.7
30	+40 48.0	+02 48.5	+41 50.8	-3 15.5	+42 16.5	-7 12.0	1 42.3
Limit	+39 44.2	+6 21.2	+38 40.8	+5 24.1	+37 39.7	+4 30.2	- -

ECLIPSES, 2026

II- Total eclipse of the Moon, 03 March, 2026, Tuesday

Visible in India

Theeclipsewillbevisibleintheregioncovering easternAsia, Australia, Pacific Ocean and Americas.

TheplacesfromwherethebeginningofUmbralphaseisvisibleatthetimeofmoonsetareArgentina, parts of Paraguay, Bolivia, Brazil, Greenland and North Atlantic Ocean.

TheplacesfromwheretheendingofUmbralphaseisvisibleatthetimeofmoonriseareparts of Russia, Kazakhstan, Afghanistan, Pakistan, India, Sri Lanka, Maldives and Indian Ocean.

Visibility in India: The eclipse is visible from most places of the country except from some places of extreme western part of India.

ELEMENTS OF THE ECLIPSE						
Universal Time of Oppositionin Right Ascension:March $3^d11^h56^m11^s.91$						
	MOON			SUN		
	h	m	s	h	m	s
Right Ascension	10	56	59.54	22	56	59.54
Hourly Motion			118.90			09.32
	°	'	"	°	'	"
Declination	+6	18	15.87	-6	42	44.79
Hourly Motion		-15	32.45			57.55
Equatorial Horizontal Parallax		57	18.13			08.87
True Semi-diameter		15	36.51		16	08.05

CIRCUMSTANCES OF THE ECLIPSE											
	Universal Time			Indian Standard Time			Position Angle measured from the North Point of Moon's Limb (N.E.S.W.)	The Moon being in the Zenith in			
								Latitude		Longitude	
	d	h	m	d	h	m	°	°	'	°	'
Moon enters penumbra	3	08	42.6	3	14	12.6	104	+7	08	-128	52
Moon enters umbra	3	09	49.7	3	15	19.7	96	+6	51	-145	07
Moon enters Totality	3	11	03.9	3	16	33.9	64	+6	47	-163	37
Middle of the eclipse*	3	11	33.7	3	17	03.7	28	+6	24	-170	19
Moon leaves Totality	3	12	03.3	3	17	33.3	353	+6	32	-178	00
Moon leaves umbra	3	13	17.6	3	18	47.6	320	+6	13	+163	59
Moon leaves penumbra	3	14	24.7	3	19	54.7	312	+5	55	+147	43

*Magnitude of the eclipse =1.155(Moon's diam =1.0). Distance between the centers at middle 1294".5

Radius of shadow cone at Moon's distance: Penumbra 4496".6, Umbra 2521".8

EASTERN AND WESTERN LIMITS OF VISIBILITY

Eastern Limit Moonset at beginning (9h 49.7m U.T.)				Western Limit Moonrise at ending (13h 17.6m U.T.)			
Latitude	Longitude	Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
°	° '	°	° '	°	° '	°	° '
-50	-63 21	+10	-53 55	-50	+81 26	+10	+72 53
-40	-60 55	+20	-52 37	-40	+79 14	+20	+71 43
-30	-59 06	+30	-51 09	-30	+77 35	+30	+70 23
-20	-57 38	+40	-49 20	-20	+76 16	+40	+68 45
-10	-56 20	+50	-46 54	-10	+75 05	+50	+66 32
0	-55 07	+60	-43 07	0	+73 59	+60	+63 07

The eclipse is visible in the region west of the eastern limit and east of the western limit. Here, moonset and moonrise times relate to visibility of the center of the Moon on the horizon.

Tables of visibility of the eclipse of some places of India are listed in next two pages.

ECLIPSES, 2026

TOTAL ECLIPSE OF THE MOON, 3 MARCH, 2026

PHASES OF ECLIPSE VISIBLE FROM CERTAIN PLACES OF INDIA

Places	Moonrise Time (IST)	Umbral phase begins at 15h 20m (IST)	Totality begins at 16 h 34m (IST)	Totality Ends at 17h 33m (IST)	Umbral phase Ends at 18 h 48m (IST)	Duration of eclipse (from Moonrise time upto the end of umbral phase)
	h m	h m	h m	h m	h m	h m
Agartala	17 27	*	*	Visible	Visible	1 21
Ahmadabad	18 44	*	*	*	Visible	0 04
Aijawl	17 20	*	*	Visible	Visible	1 28
Ajmer	18 34	*	*	*	Visible	0 14
Allahabad	18 05	*	*	*	Visible	0 43
Amritsar	18 30	*	*	*	Visible	0 18
Bangalore	18 28	*	*	*	Visible	0 20
Bhagalpur	17 44	*	*	*	Visible	1 04
Bhopal	18 24	*	*	*	Visible	0 24
Bhubaneswar	17 51	*	*	*	Visible	0 57
Cannanore	18 38	*	*	*	Visible	0 10
Chandigarh	18 19	*	*	*	Visible	0 29
Chennai	18 17	*	*	*	Visible	0 31
Cochin	18 35	*	*	*	Visible	0 13
Cooch Behar	17 33	*	*	*	Visible	1 15
Cuttack	17 50	*	*	*	Visible	0 58
Darjeeling	17 37	*	*	*	Visible	1 11
Dehradun	18 17	*	*	*	Visible	0 31
Delhi	18 22	*	*	*	Visible	0 26
Dibrugarh	17 09	*	*	Visible	Visible	1 39
Dwarka	18 59	*	*	*	*	* *
Gandhinagar	18 44	*	*	*	Visible	0 04
Gangtok	17 36	*	*	*	Visible	1 12
Guwahati	17 24	*	*	Visible	Visible	1 24
Gaya	17 52	*	*	*	Visible	0 56
Haridwar	18 17	*	*	*	Visible	0 31
Hazaribagh	17 51	*	*	*	Visible	0 57
Hubli	18 36	*	*	*	Visible	0 12
Hyderabad	18 22	*	*	*	Visible	0 26
Imphal	17 15	*	*	Visible	Visible	1 33
Itanagar	17 15	*	*	Visible	Visible	1 33
Jaipur	18 29	*	*	*	Visible	0 19
Jalandhar	18 25	*	*	*	Visible	0 23
Jammu	18 29	*	*	*	Visible	0 19
Kanyakumari	18 31	*	*	*	Visible	0 17
Kavalur	18 19	*	*	*	Visible	0 29
Kavaratti	18 48	*	*	*	*	* *
Kohima	17 13	*	*	Visible	Visible	1 35
Kolhapur	18 40	*	*	*	Visible	0 08
Kolkata	17 39	*	*	*	Visible	1 09
Koraput	18 04	*	*	*	Visible	0 44
Kozikode	18 36	*	*	*	Visible	0 12

* Indicates Moon rises after the corresponding phenomenon (i.e. corresponding phenomenon is not visible)

ECLIPSES, 2026

TOTAL ECLIPSE OF THE MOON, 3 MARCH, 2026

PHASES OF ECLIPSE VISIBLE FROM CERTAIN PLACES OF INDIA

Places	Moonrise Time (IST)	Umbral phase begins at 15h 20m (IST)	Totality begins at 16 h 34m (IST)	Totality Ends at 17h 33m (IST)	Umbral phase Ends at 18 h 48m (IST)	Duration of eclipse (from Moonrise time upto the end of umbral phase)
	h m	h m	h m	h m	h m	h m
Lucknow	18 07	*	*	*	Visible	0 41
Madurai	18 27	*	*	*	Visible	0 21
Mangalore	18 39	*	*	*	Visible	0 09
Midnapore	17 44	*	*	*	Visible	1 04
Mount Abu	18 43	*	*	*	Visible	0 05
Mumbai	18 45	*	*	*	Visible	0 03
Murshidabad	17 38	*	*	*	Visible	1 10
Muzaffarpur	17 50	*	*	*	Visible	0 58
Mysore	18 32	*	*	*	Visible	0 16
Nagpur	18 18	*	*	*	Visible	0 30
Nalgonda	18 19	*	*	*	Visible	0 29
Nasik	18 41	*	*	*	Visible	0 07
Nellore	18 18	*	*	*	Visible	0 30
Nowgong	18 15	*	*	*	Visible	0 33
Panaji	18 40	*	*	*	Visible	0 08
Patna	17 51	*	*	*	Visible	0 57
Pondicherry	18 19	*	*	*	Visible	0 29
Pune	18 41	*	*	*	Visible	0 07
Port Blair	17 27	*	*	Visible	Visible	1 21
Puri	17 51	*	*	*	Visible	0 57
Raipur	18 07	*	*	*	Visible	0 41
Rajamundry	18 07	*	*	*	Visible	0 41
Rajkot	18 52	*	*	*	*	* *
Ranchi	17 51	*	*	*	Visible	0 57
Sambalpur	17 58	*	*	*	Visible	0 50
Shillong	17 23	*	*	Visible	Visible	1 25
Shimla	18 21	*	*	*	Visible	0 27
Sibsagar	17 11	*	*	Visible	Visible	1 37
Silchar	17 20	*	*	Visible	Visible	1 28
Siliguri	17 37	*	*	*	Visible	1 11
Silvassa	18 44	*	*	*	Visible	0 04
Srinagar	18 28	*	*	*	Visible	0 20
Sringeri	18 36	*	*	*	Visible	0 12
Tamelong	17 15	*	*	Visible	Visible	1 33
Thanjavur	18 23	*	*	*	Visible	0 25
Thiruvanantapuram	18 33	*	*	*	Visible	0 15
Trichur	18 34	*	*	*	Visible	0 14
Udaipur	18 39	*	*	*	Visible	0 09
Ujjain	18 31	*	*	*	Visible	0 17
Vadodara	18 42	*	*	*	Visible	0 06
Varanasi	18 00	*	*	*	Visible	0 48
Vijayawada	18 14	*	*	*	Visible	0 34

* Indicates Moon rises after the corresponding phenomenon (i.e. corresponding phenomenon is not visible)

ECLIPSES, 2026

IV- Partial eclipse of the Moon,28August, 2026,Friday.

Not visible in India

The eclipse will be visible in the region covering Antarctica, Africa, Europe, Asia, Indian Ocean, the Atlantic Ocean and the Pacific Ocean.

The places from where the beginning of the Umbral phase will be visible at the time of moonset are Ukraine, Turkey, Saudi Arabia, Yemen, Madagascar, western part of Russia and Indian Ocean and eastern part of Africa.

The places from where the ending of the Umbral phase will be visible at the time of moonrise are parts of Alaska, New Zealand and Pacific Ocean.

ELEMENTS OF THE ECLIPSE						
Universal Time of Opposition Right Ascension :August$28^d04^h41^m48^s.09$						
	MOON			SUN		
	h	m	s	h	m	s
Right Ascension	22	27	02.25	10	27	02.25
Hourly Motion			116.10			09.12
	°	'	"	°	'	"
Declination	-9	11	07.35	+9	42	28.23
Hourly Motion		14	23.69			-52.91
Equatorial Horizontal Parallax		56	10.52			08.71
True Semi-diameter		15	18.09		15	50.00

CIRCUMSTANCES OF THE ECLIPSE											
	Universal Time			Indian Standard Time			Position Angle measured from the North Point of Moon's Limb (N.E.S.W.)	The Moon being in the Zenith in			
								Latitude		Longitude	
	d	h	m	d	h	m	°	°	'	°	'
Moon enters penumbra	28	01	22.4	28	06	52.4	81	-9	59	-21	26
Moon enters umbra	28	02	33.5	28	08	03.5	92	-9	42	-38	42
Middle of the eclipse*	28	04	12.9	28	09	42.9	153	-9	18	-62	49
Moon leaves umbra	28	05	52.3	28	11	22.3	213	-8	54	-86	56
Moon leaves penumbra	28	07	03.4	28	12	33.4	221	-8	37	-104	11

*Magnitude of the eclipse =0.935(Moon's diam =1.0). Distance between the centers at middle=1672".8

Radius of shadow cone at Moon's distance: Penumbra 4409".4, Umbra 2471".5

EASTERN AND WESTERN LIMITS OF VISIBILITY

Eastern Limit Moonset at beginning (02h 33.5m U.T.)				Western Limit Moonrise at ending (5h 52.3m U.T.)			
Latitude	Longitude	Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
°	° '	°	° '	°	° '	°	° '
-50	+63 03	+10	+49 35	-50	+172 19	+10	-175 21
-40	+59 33	+20	+47 44	-40	+175 31	+20	-173 40
-30	+56 58	+30	+45 38	-30	+177 53	+30	-171 44
-20	+54 52	+40	+43 04	-20	+179 48	+40	-169 23
-10	+53 02	+50	+39 33	-10	-178 31	+50	-166 10
0	+51 18	+60	+34 05	0	-176 56	+60	-161 11

The eclipse is visible in the region west of the eastern limit and east of the western limit. Here, moonset and moonrise times relate to visibility of the center of the Moon on the horizon.