

THE ANNULAR ECLIPSE OF THE SUN, DECEMBER 26

PHASES OF ECLIPSE VISIBLE FROM CERTAIN PLACES OF INDIA

Places	Partial Eclipse Begins (IST)	Annular phase Begins (IST)	Greatest Eclipse (IST)	Maximum Obscuration	Annular phase Ends (IST)	Partial Eclipse Ends (IST)	Duration of Eclipse
	h m s	h m s	h m s		h m s	h m s	
Agartala	8 35 12	- - -	10 00 55	38.7%	- - -	11 38 51	3 03 39
Ahmadabad	8 06 25	- - -	9 22 03	66.7%	- - -	10 52 01	2 45 36
Aijawl	8 38 31	- - -	10 05 22	37.6%	- - -	11 43 38	3 05 06
Allahabad	8 19 06	- - -	9 37 46	46.6%	- - -	11 10 19	2 51 13
Amritsar	8 18 48	- - -	9 29 01	40.4%	- - -	10 50 01	2 31 13
Bangalore	8 06 32	- - -	9 29 46	89.6%	- - -	11 11 13	3 04 41
Bhopal	8 10 59	- - -	9 29 10	58.8%	- - -	11 02 13	2 51 14
Bhubaneswar	8 19 57	- - -	9 46 07	54.7%	- - -	11 28 24	3 08 27
Cannanore*	8 05 00	9 24 48	9 26 18	92.9%	9 27 48	11 05 17	3 00 17
Chandigarh	8 21 30	- - -	9 32 45	38.1%	- - -	10 54 58	2 33 28
Chennai	8 08 55	- - -	9 34 39	85.1%	- - -	11 19 07	3 10 12
Cochin	8 06 08	- - -	9 28 29	91.0%	- - -	11 08 58	3 02 50
Coimbatore*	8 06 20	9 27 47	9 29 22	93.0%	9 30 56	11 10 40	3 04 20
Cooch Behar	8 34 52	- - -	9 56 12	35.0%	- - -	11 29 10	2 54 18
Darjeeling	8 33 24	- - -	9 53 11	34.7%	- - -	11 24 38	2 51 14
Dehradun	8 20 46	- - -	9 33 06	39.5%	- - -	10 56 51	2 36 05
Delhi	8 17 03	- - -	9 30 50	44.8%	- - -	10 56 56	2 39 53
Dibrugarh	8 51 01	- - -	10 12 56	27.5%	- - -	11 42 52	2 51 52
Dwarka	8 03 36	- - -	9 17 32	74.6%	- - -	10 45 17	2 41 41
Gandhinagar	8 06 36	- - -	9 22 13	66.1%	- - -	10 52 05	2 45 29
Gangtok	8 34 38	- - -	9 54 10	33.7%	- - -	11 25 05	2 50 26
Guwahati	8 39 28	- - -	10 02 09	33.4%	- - -	11 35 38	2 56 10
Gaya	8 23 28	- - -	9 44 31	44.1%	- - -	11 19 26	2 55 58
Haridwar	8 21 24	- - -	9 33 32	38.7%	- - -	10 56 57	2 35 34
Hyderabad	8 08 13	- - -	9 30 37	74.1%	- - -	11 10 18	3 02 05
Imphal	8 43 00	- - -	10 09 08	34.4%	- - -	11 45 26	3 02 26
Itanagar	8 46 26	- - -	10 08 27	29.4%	- - -	11 39 34	2 53 07
Jaipur	8 13 05	- - -	9 27 50	51.4%	- - -	10 55 44	2 42 39
Jalandhar	8 20 50	- - -	9 30 56	38.1%	- - -	10 51 36	2 30 45
Jammu	8 20 29	- - -	9 29 40	38.1%	- - -	10 49 08	2 28 39
Kanyakumari	8 07 46	- - -	9 31 28	87.3%	- - -	11 13 41	3 05 55
Kavalur	8 08 08	- - -	9 33 06	86.6%	- - -	11 16 40	3 08 32
Kavaratti	8 03 58	- - -	9 23 06	88.3%	- - -	10 59 11	2 55 13
Kohima	8 45 19	- - -	10 10 03	32.0%	- - -	11 44 16	2 58 57
Kolkata	8 27 02	- - -	9 52 36	45.4%	- - -	11 32 25	3 05 23
Kozhikode*	8 05 26	9 26 29	9 27 13	93.0%	9 27 56	11 06 53	3 01 27
Lucknow	8 19 47	- - -	9 36 40	44.1%	- - -	11 06 42	2 46 56
Madurai*	8 07 29	9 31 28	9 31 46	93.1%	9 32 04	11 14 45	3 07 16
Mangalore*	8 04 33	9 24 17	9 25 17	92.9%	9 26 18	11 03 27	2 58 54
MountAbu	8 07 46	- - -	9 22 37	62.1%	- - -	10 51 13	2 43 27
Mumbai	8 04 06	- - -	9 21 40	79.1%	- - -	10 54 53	2 50 47
Mysore	8 05 53	- - -	9 28 25	93.5%	- - -	11 09 01	3 03 08

‘ - - ‘ indicates annular phase of eclipse not visible corresponding to the places where only partial eclipse occurs

‘*’ Places where annular phase of eclipse occurs

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PHASES OF ECLIPSE VISIBLE FROM CERTAIN PLACES OF INDIA

Places	Partial Eclipse Begins (IST)	Annular phase Begins (IST)	Greatest Eclipse (IST)	Maximum Obscuration	Annular phase Ends (IST)	Partial Eclipse Ends (IST)	Duration of Eclipse
	h m s	h m s	h m s		h m s	h m s	h m s
Nagpur	8 11 09	- - -	9 31 53	62.1%	- - -	11 08 34	2 57 25
Nasik	8 05 18	- - -	9 23 06	74.1%	- - -	10 56 30	2 51 12
Ooty*	8 06 02	9 27 03	9 28 42	93.0%	9 30 21	11 09 32	3 03 30
Panaji	8 04 16	- - -	9 23 58	86.2%	- - -	11 00 26	2 56 10
Patna	8 24 54	- - -	9 45 04	41.8%	- - -	11 18 35	2 53 41
Pondicherry	8 08 35	- - -	9 34 17	89.1%	- - -	11 18 52	3 10 17
Pune	8 04 40	- - -	9 23 07	78.5%	- - -	10 57 33	2 52 53
Port Blair	8 27 50	- - -	10 07 48	70.4%	- - -	12 03 28	3 35 38
Puri	8 19 31	- - -	9 46 05	56.0%	- - -	11 28 59	3 09 27
Raipur	8 14 26	- - -	9 36 47	58.0%	- - -	11 15 10	3 00 44
Rajkot	8 04 34	- - -	9 19 31	72.0%	- - -	10 48 40	2 44 06
Ranchi	8 22 18	- - -	9 45 06	47.2%	- - -	11 22 31	3 00 12
Shillong	8 39 19	- - -	10 02 58	34.3%	- - -	11 37 33	2 58 14
Shimla	8 20 51	- - -	9 32 09	38.8%	- - -	10 54 28	2 33 37
Silchar	8 40 18	- - -	10 05 40	35.2%	- - -	11 41 54	3 01 36
Siliguri	8 32 59	- - -	9 53 21	35.4%	- - -	11 25 34	2 52 34
Srinagar	8 22 58	- - -	9 30 42	34.8%	- - -	10 47 60	2 25 01
Thiruvananthapuram	8 07 12	- - -	9 30 18	87.6%	- - -	11 11 46	3 04 34
Tiruchirappalli*	8 07 44	9 31 28	9 32 31	93.1%	9 33 32	11 16 04	3 08 20
Udaipur	8 08 36	- - -	9 23 57	60.7%	- - -	10 53 12	2 44 37
Ujjain	8 09 16	- - -	9 26 38	61.5%	- - -	10 58 43	2 49 27
Vadodara	8 06 21	- - -	9 22 45	67.9%	- - -	10 53 49	2 47 28
Varanasi	8 20 55	- - -	9 40 22	45.2%	- - -	11 13 40	2 52 46

‘ - - ‘ indicates annular phase of eclipse not visible corresponding to the places where only partial eclipse occurs

‘*’ Places where annular phase of eclipse occurs

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LOCAL CIRCUMSTANCES RELATING TO SOME PLACES FROM WHERE ANNULAR PHASE IS VISIBLE

Places	Partial Eclipse Begins (IST)	Annular phase Begins (IST)	Greatest Eclipse (IST)	Maximum Obscuration	Annular phase Ends (IST)	Partial Eclipse Ends (IST)	Duration of Annularity
	h m s	h m s	h m s		h m s	h m s	m s
Cannanore	8 05 00	9 24 48	9 26 18	92.9%	9 27 48	11 05 17	3 00
Coimbatore	8 06 20	9 27 47	9 29 22	93.0%	9 30 56	11 10 40	3 09
Kozhikode	8 05 26	9 26 29	9 27 13	93.0%	9 27 56	11 06 53	1 27
Madurai	8 07 29	9 31 28	9 31 46	93.1%	9 32 04	11 14 45	0 36
Mangalore	8 04 33	9 24 17	9 25 17	92.9%	9 26 18	11 03 27	2 01
Ooty	8 06 02	9 27 03	9 28 42	93.0%	9 30 21	11 09 32	3 18
Tiruchirappalli	8 07 44	9 31 28	9 32 31	93.1%	9 33 32	11 16 04	2 04