

Weather Data for the Solar Eclipse														
3 October 2005														
Station	Latitude	Longitude	Hours of sunshine	Percent of possible sunshine	Percent Frequency of				Percent Probability of Seeing Eclipse	Percent Frequency of Fog	Percent observations with Rain	Percent observations with Dust or Sand	Tmax (°C)	Tmin (°C)
					Clear	Scattered	Broken	Overcast & Obscured						
Portugal														
Lisbon	38.77	-9.13	6.9	62	18.0	31.4	36.3	14.3	49	26.4	11.2	0.9	21	14
Viana do Castelo	41.70	-8.80	--	-	13.1	26.3	40.2	20.3	41	49.8	16.4	0	19	12
Porto	41.23	-8.68	5.9	53	15.5	24	36.7	23.8	41	32.8	16.2	0	19	12
Vila Real	41.32	-7.73	-	-	23.3	24.2	29.1	23.3	47	17.3	19.8	0	18	9
Spain														
Vigo	42.22	-8.63	5.0	45	23.3	21.1	24.6	31.1	44	15.7	16.6	0.6	18	11
La Coruna	43.37	-8.42	4.8	43	10.4	21.9	39.4	28.4	35	9.3	21.2	0.2	19	13
Gijon	43.53	-5.63	4.4	39	8.1	21.8	38.2	31.8	32	24.6	16.9	0	18	12
Salamanca	40.95	-5.50	6.0	54	-	-	-	-	-	-	-	-	18	6
Madrid	40.45	-3.55	6.4	57	19.9	33.1	31.1	15.9	51	11.9	6.9	5.1	21	8
Valladolid	41.70	-4.85	6.3	57	-	-	-	-	-	-	-	-	18	6
Valencia	39.50	-0.47	6.5	59	17.1	35.0	35.8	12.0	50	11.4	6.5	14.5	23	13
Albacete	38.95	-1.86	6.4	57	-	-	-	-	-	-	-	-	20	8
Castellon de la Plana	39.95	-0.07	-	-	10.7	42.9	36.3	10.0	50	3.4	4.8	2.5	22	16
Reus	41.15	1.17	5.9	53	-	-	-	-	-	-	-	-	22	12
Barcelona	41.32	2.07	5.8	52	13.3	34.3	37.9	14.5	47	31.9	8.0	6.5	21	12

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Balearic Islands														
Ibiza	38.87	1.38	6.4	57	5.3	54.0	34.4	6.3	52	1.6	3.2	0.5	23	16
Palma, Mallorca	39.55	2.73	6.6	59	3.4	48.1	40.3	8.2	47	5.1	7.6	3.2	23	12
Algeria														
Algiers	36.72	3.25	7.3	64	10.6	40.6	42.0	6.8	49	6.3	9.0	-	25	14
Bejaia (Bougie)	36.72	5.07	-	-	10.1	38.8	40.1	11.0	47	0.3	9.7	0.3	24	16
Biskra	34.80	5.73	8.6	76	20.6	48.5	27.0	3.9	62	0.0	2.5	5.6	27	18
Jijel	36.83	5.77	-	-	6.5	37.6	45.2	12.1	44	0.8	8.0	0	23	17
Batna	35.55	6.18	-	-	13.9	45.5	37.3	3.4	55	2.1	6.7	0.3	20	11
Constantine	36.28	6.62	6.6	58	13.3	35.5	43.0	8.2	49	3.1	5.8	0.2	22	11
Skikda	36.93	6.95	6.5	58	15.8	41.0	40.0	3.2	54	0.0	5.9	0	23	17
Annaba	36.83	7.82	5.7	50	9.2	36.0	46.4	8.4	46	1.3	8.1	0	24	15
Tunisia														
Gabes	33.88	10.10	8.4	75	29.1	27.4	35.0	8.4	57	5.5	4.0	1.7	26	18
Tunis	36.83	10.23	7.0	62	6.3	50.1	40.2	3.5	51	8.3	6.2	0.2	25	15
Sfax	34.72	10.68	7.8	69	12.8	46.6	37.7	2.9	55	1.3	3.3	1.0	26	17
Gafsa	34.42	8.82	8.2	73	-	-	-	-	-	-	-	-	27	14
Djerba Mellita	33.88	10.77	8.0	71	8.8	50.4	38.7	2.1	54	1.6	4.4	0.9	27	19

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Libya														
Benghazi	32.10	20.07	8.0	71	-	-	-	-	-	-	-	-	27	19
Ghadames	30.13	9.50	-	-	50.1	30.5	17.7	1.8	71	0.3	2.4	33.7	30	18
Kufra	24.22	23.33	9.9	88	-	-	--	-	-	-	-	-	32	16
Tripoli	32.67	13.15	7.3	65	23.8	34.2	39.6	2.3	57	1.9	4.5	4.7	27	18
Sudan														
Juba	4.85	31.62	8.0	59	0	0	97.4	2.6	22	-	-	-	34	20
Khartoum	15.60	32.55	10.3	82	25.5	45.8	28.7	0.0	65	0.0	0.3	80.1	40	24
Kassala	15.47	36.40	10.3	85	7.7	53.0	39.3	0.0	55	0.0	0.8	13.8	35	29
Al Fasher	13.63	25.33	9.6	80	-	-	-	-	-	-	-	-	-	-
Malakal	9.55	31.65	7.2	75	-	-	-	-	-	-	-	-	-	-
Kenya														
Eldoret	0.63	35.28	7.8	64	0.0	29.6	68.2	2.2	37	0.3	1.6	0.3	22	13
Ludwar	3.12	35.62	10.2	84	0.0	41.5	56.8	1.7	43	0.2	1.0	1.6	35	27
Nairobi	-1.32	36.92	7.0	57	0.0	21.2	78.3	0.5	33	0	3.7	0	24	13
Garissa	-0.47	39.63	9.0	74	0.6	42.7	56.2	0.2	44	0.0	2.3	0.6	34	24
Malindi	-3.23	40.10	--	-	0.0	57.7	39.9	2.4	51	0.2	4.8	0.2	28	23
Mombasa	-4.03	39.61	8.8	73	0.0	67.7	30.3	2.0	56	0.2	4.1	0.9	29	23
Lamu	-2.27	40.83	9.8	80	0.0	62.4	36.2	1.5	53	0.0	1.8	0	29	20
Somalia														
Mogadishui	2.03	45.35	8.6	72	0.0	57.0	39.7	3.3	50	0	2.5	0.6	29	26
Alessandra	0.50	42.77	7.5	63	-	-	-	-	-	-	-	-	-	-

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Ethiopia														
Addis Ababa	8.98	38.80	8.0	67	0.5	42.8	56.4	0.3	44	0.8	3.9	0.3	21	12

Explanation:

Sunshine hours - the average number of hours per day in October with bright sunshine.

Percent of possible sunshine: The number of sunshine hours (described above) divided by the number of hours from sunrise to sunset at mid-month. Where independent values of the percent of possible sunshine are available, that value is given in the table. This statistic is one of the best measures of the probability of seeing the eclipse as it includes situations in which the sun may be shining through a thin cloud cover.

Percent frequency of (clear, scattered, broken, overcast and obscured) skies. While observing practices vary slightly from country to country, clear skies are those free of any cloud, scattered cloud is from 1 to 4 eights of cloud cover, broken ranges from 5 to 7 eights, and overcast and obscured conditions represent 8 eights of coverage. This cloud cover is the fraction of the sky covered by any cloud, not just opaque cloud. A sky may have broken cloud that is completely transparent (high level cirrus for instance). As such, the cloud statistics are pessimistic and almost all locations in the globe will have better eclipse weather than these columns imply.

Probability of seeing the eclipse: A simplistic calculation of the chances of seeing the eclipse based on a mean value of cloud cover for each category and the frequency of occurrence of the cloud. This column should be used to compare one site to another rather than as an absolute indication of success.

Percent frequency of fog: percent of hours at or near eclipse time at which fog was reported. Visibility must be below 3 miles.

Percent observations with rain at eclipse time: the percent of time at which precipitation was reported at the station. Observations are available at three hour intervals and the closest interval to the time of the eclipse was selected for the table.

Percent observations with dust or sand: Percent of hours at or near eclipse time in which visibility was reduced due to blowing dust or sand.

Tmax: Average daily high temperature in °C

Tmin: Average daily low temperature in °C