

**Table 1 - Local Circumstances for Partial Solar Eclipse of 2011 Jan 04**

Country	City	Eclipse Begins (h:m)	Maximum Eclipse (h:m)	Eclipse Ends (h:m)	Sun's Altitude °	Sun's Azimuth °	Eclipse Magnitude	Eclipse Obscuration
<b>EUROPE</b>								
Austria	Vienna	07:03	08:25	09:53	11	144	0.779	0.706
Belarus	Minsk	07:23	08:48	10:16	11	160	0.826	0.762
Belgium	Brussels	— r	08:15	09:36	3	132	0.762	0.685
Bulgaria	Sofija Bul	07:03	08:28	10:02	19	150	0.733	0.651
Croatia	Zagreb	07:00	08:21	09:50	12	143	0.754	0.676
Czech Republic	Prague	07:05	08:25	09:52	9	143	0.791	0.720
Denmark	Copenhagen	— r	08:31	09:54	4	143	0.826	0.761
Finland	Helsinki	07:30	08:50	10:14	5	158	0.852	0.792
France	Paris	— r	08:09	09:30	3	130	0.732	0.649
Germany	Berlin	— r	08:27	09:52	7	142	0.807	0.739
	Frankfurt	— r	08:18	09:42	6	136	0.773	0.698
	Hamburg	— r	08:25	09:48	5	139	0.806	0.737
	München	— r	08:18	09:45	9	139	0.765	0.688
Greece	Athens	06:57	08:23	09:58	22	148	0.674	0.582
Hungary	Budapest	07:05	08:28	09:58	13	147	0.778	0.704
Ireland	Dublin	— r	08:42r	09:26	0	129	0.504	0.388
Italy	Rome	06:52	08:10	09:38	13	137	0.696	0.607
Latvia	Riga	07:24	08:46	10:12	8	156	0.842	0.781
Lithuania	Vilnius	07:22	08:45	10:13	10	157	0.832	0.769
Macedonia	Skopje	07:00	08:24	09:57	18	147	0.723	0.639
Moldova	Kisin'ov	07:15	08:43	10:16	18	159	0.775	0.701
Netherlands	Amsterdam	— r	08:18	09:39	3	133	0.779	0.704
Norway	Oslo	— r	08:35	09:56	1	142	0.841	0.779
Poland	Warsaw	07:14	08:36	10:05	10	151	0.818	0.752
Portugal	Lisbon	— r	07:57r	08:54	0	119	0.484	0.366
Romania	Bucharest	07:08	08:35	10:09	19	155	0.753	0.675
Russia	Kujbysev	07:55	09:22	10:45	14	189	0.733	0.650
	Moskva	07:38	09:04	10:30	11	173	0.812	0.745
	Gorki	07:48	09:13	10:37	11	181	0.789	0.717
	Novosibirsk	08:48	09:56	— s	1	226	0.489	0.372
	St. Petersburg	07:35	08:56	10:20	6	164	0.846	0.785
	Samara	07:55	09:22	10:45	14	189	0.733	0.650
Serbia and Montenegro	Beograd	07:02	08:26	09:58	16	148	0.754	0.675
Spain	Barcelona	— r	07:58	09:18	6	127	0.633	0.533
	Madrid	— r	07:52	09:06	2	122	0.576	0.468
Sweden	Stockholm	— r	08:42	10:05	4	150	0.849	0.789
Switzerland	Zurich	— r	08:13	09:38	7	135	0.745	0.665
Ukraine	Kiev	07:22	08:49	10:20	15	162	0.800	0.731
United Kingdom	Birmingham	— r	08:20r	09:30	0	129	0.728	0.644
	Glasgow	— r	08:49r	09:33	0	132	0.504	0.388
	London	— r	08:12	09:31	0	128	0.747	0.667
	Manchester	— r	08:27r	09:31	0	130	0.697	0.607
<b>AFRICA</b>								
Algeria	Algiers	— r	07:52	09:11	8	126	0.564	0.454
Chad	Ndjamena	07:01	07:43	08:29	30	125	0.121	0.049
Egypt	Cairo	07:02	08:31	10:06	33	155	0.551	0.441
Ethiopia	Addis Abeba	07:43	08:28	09:14	55	155	0.087	0.030
Libya	Tripoli	06:44	07:59	09:26	18	134	0.560	0.451
Morocco	Marrakech	— r	07:38	08:39	1	117	0.373	0.253
Sudan	Khartoum	07:09	08:19	09:34	45	148	0.262	0.152
Tunisia	Tunis	06:45	08:00	09:25	14	133	0.610	0.506
<b>ASIA</b>								
Afghanistan	Kabul	08:48	09:52	10:51	23	216	0.267	0.156
Azerbaijan	Baku	07:49	09:20	10:46	26	189	0.593	0.487
Iran	Tehran	07:52	09:21	10:45	31	191	0.507	0.392
Iraq	Baghdad	07:32	09:04	10:35	34	179	0.536	0.424
Israel	Tel Aviv-Yafo	07:09	08:41	10:16	33	162	0.574	0.467
Jordan	'Amman	07:12	08:43	10:19	34	164	0.568	0.460
Kazakhstan	Karaganda	08:38	09:52	11:00	9	217	0.498	0.381
Kyrgyzstan	Bishkek Kyr	08:50	09:57	10:59	14	220	0.363	0.243
Lebanon	Beirut	07:12	08:44	10:20	32	164	0.600	0.496
Pakistan	Karachi	09:04	09:46	10:25	33	216	0.093	0.033
Syria	Damascus	07:13	08:46	10:21	32	165	0.591	0.486
Tajikistan	Dusanbe	08:41	09:51	10:56	20	215	0.351	0.233
Turkey	Ankara	07:13	08:44	10:20	25	162	0.692	0.603
	Istanbul	07:08	08:37	10:12	23	157	0.713	0.627
Uzbekistan	Taskent	08:39	09:52	10:58	18	215	0.396	0.276

All times are Universal Time.  
'r' indicates eclipse in progress at sunrise.  
's' indicates eclipse in progress at sunset.