

Eclipses During 2020

Table 4 — Local Circumstances for the Total Solar Eclipse of 2020 December 14

Country	City	Eclipse Begins	Maximum Eclipse	Eclipse Ends	Sun Alt	Sun Azm	Eclipse Mag.	Eclipse Obs.
				°	°			
Argentina	Buenos Aires	12:04	13:32	14:59	75	317	0.786	0.736
	Cordoba	11:48	13:16	14:45	82	353	0.713	0.644
	Rosario	11:58	13:26	14:54	78	325	0.742	0.681
Bolivia	La Paz	10:40	11:48	13:00	78	127	0.286	0.177
	Santa Cruz	10:57	12:07	13:19	85	178	0.276	0.168
Brazil	Belo Horizonte	14:03	15:14	16:17	57	258	0.322	0.210
	Brasilia	14:06	15:03	15:56	62	250	0.173	0.084
	Campinas	13:45	15:04	16:15	62	263	0.405	0.292
	Curitiba	13:34	14:57	16:13	66	270	0.481	0.373
	Goiania	13:57	14:58	15:55	64	251	0.198	0.103
	Joinville	13:34	14:58	16:15	65	271	0.511	0.406
	Maceio	15:08	15:38	16:06	40	248	0.062	0.018
	Porto Alegre	13:23	14:51	16:12	69	283	0.630	0.544
	Recife	15:23	15:40	15:56	39	247	0.020	0.003
	Rio de Janeiro	13:57	15:14	16:23	56	262	0.421	0.309
	Salvador	14:44	15:30	16:13	46	250	0.140	0.062
	Santos	13:46	15:06	16:18	61	265	0.442	0.330
	Sao Paulo	13:46	15:05	16:17	62	264	0.427	0.315
	Vitoria	14:11	15:22	16:25	51	258	0.356	0.243
Chile	Santiago	11:36	13:01	14:31	77	40	0.827	0.787
	Valparaiso	11:34	12:59	14:29	76	47	0.823	0.783
Ecuador	Guayaquil	09:31	09:57	10:26	51	125	0.051	0.014
Paraguay	Asuncion	11:07	12:31	13:53	79	279	0.483	0.375
Peru	Lima	09:16	10:16	11:23	62	117	0.281	0.172
Uruguay	Montevideo	12:09	13:38	15:04	73	309	0.790	0.740
Angola	Luanda	18:10	-	-	0	246	0.187	0.094
South Africa	Cape Town	18:52	19:44	-	1	242	0.674	0.594
	Port Elizabeth	18:52	-	-	0	241	0.503	0.395

All times listed are in Local Time.

"Eclipses During 2020", Fred Espenak,
Observer's Handbook 2020, Royal Astronomical Society of Canada