

ANNULAR SOLAR ECLIPSE OF 2012 MAY 20

TABLE 8 – MAPPING COORDINATES FOR THE ZONES OF GRAZING ECLIPSE (EXTENDED)

Longitude	North Graze Zone		Northern	South Graze Zone		Southern	$\Delta T = 66.7 \text{ s}$		
	Latitudes		Limit	Latitudes		Limit	Path Azm °	Elev Fact	Scale Fact km/''
	Northern Limit	Southern Limit	Universal Time h m s	Northern Limit	Southern Limit	Universal Time h m s			
125°00.0'W	43°22.37'N	43°16.24'N	01:23:42	40°27.61'N	40°23.60'N	01:28:04	115.1	-0.73	2.43
124°45.0'W	43°17.29'N	43°11.17'N	01:23:55	40°22.24'N	40°18.21'N	01:28:17	115.1	-0.73	2.43
124°30.0'W	43°12.19'N	43°06.08'N	01:24:08	40°16.85'N	40°12.81'N	01:28:30	115.1	-0.73	2.43
124°15.0'W	43°07.07'N	43°00.97'N	01:24:21	40°11.45'N	40°07.39'N	01:28:43	115.2	-0.73	2.43
124°00.0'W	43°01.93'N	42°55.85'N	01:24:34	40°06.03'N	40°01.96'N	01:28:55	115.2	-0.73	2.44
123°45.0'W	42°56.78'N	42°50.71'N	01:24:47	40°00.60'N	39°56.51'N	01:29:08	115.2	-0.73	2.44
123°30.0'W	42°51.62'N	42°45.55'N	01:25:00	39°55.16'N	39°51.05'N	01:29:20	115.3	-0.73	2.44
123°15.0'W	42°46.43'N	42°40.38'N	01:25:12	39°49.71'N	39°45.58'N	01:29:33	115.3	-0.73	2.44
123°00.0'W	42°41.24'N	42°35.19'N	01:25:25	39°44.23'N	39°40.08'N	01:29:45	115.3	-0.73	2.44
122°45.0'W	42°36.02'N	42°29.99'N	01:25:37	39°38.75'N	39°34.78'N	01:29:57	115.4	-0.73	2.44
122°30.0'W	42°30.79'N	42°24.77'N	01:25:49	39°33.25'N	39°29.27'N	01:30:09	115.4	-0.74	2.44
122°15.0'W	42°25.55'N	42°19.54'N	01:26:01	39°27.74'N	39°23.75'N	01:30:20	115.4	-0.74	2.44
122°00.0'W	42°20.29'N	42°14.29'N	01:26:13	39°22.22'N	39°18.21'N	01:30:32	115.4	-0.74	2.44
121°45.0'W	42°15.02'N	42°09.03'N	01:26:25	39°16.68'N	39°12.65'N	01:30:43	115.5	-0.74	2.44
121°30.0'W	42°09.74'N	42°03.76'N	01:26:36	39°11.13'N	39°07.09'N	01:30:55	115.5	-0.74	2.45
121°15.0'W	42°04.44'N	41°58.47'N	01:26:48	39°05.57'N	39°01.51'N	01:31:06	115.5	-0.74	2.45
121°00.0'W	41°59.12'N	41°53.16'N	01:26:59	39°00.00'N	38°55.93'N	01:31:17	115.5	-0.74	2.45
120°45.0'W	41°53.80'N	41°47.84'N	01:27:10	38°54.41'N	38°50.32'N	01:31:28	115.6	-0.74	2.45
120°30.0'W	41°48.46'N	41°42.51'N	01:27:22	38°48.81'N	38°44.71'N	01:31:38	115.6	-0.74	2.45
120°15.0'W	41°43.10'N	41°37.17'N	01:27:32	38°43.21'N	38°39.09'N	01:31:49	115.6	-0.74	2.45
120°00.0'W	41°37.74'N	41°31.82'N	01:27:43	38°37.59'N	38°33.46'N	01:31:59	115.6	-0.74	2.45
119°45.0'W	41°32.36'N	41°26.45'N	01:27:54	38°31.96'N	38°27.82'N	01:32:10	115.6	-0.74	2.45
119°30.0'W	41°26.97'N	41°21.07'N	01:28:05	38°26.33'N	38°22.16'N	01:32:20	115.6	-0.74	2.45
119°15.0'W	41°21.57'N	41°15.68'N	01:28:15	38°20.68'N	38°16.50'N	01:32:30	115.7	-0.75	2.45
119°00.0'W	41°16.16'N	41°10.27'N	01:28:25	38°15.02'N	38°10.83'N	01:32:40	115.7	-0.75	2.45
118°45.0'W	41°10.73'N	41°04.86'N	01:28:36	38°09.35'N	38°05.15'N	01:32:49	115.7	-0.75	2.46
118°30.0'W	41°05.30'N	40°59.43'N	01:28:46	38°03.68'N	37°59.45'N	01:32:59	115.7	-0.75	2.46
118°15.0'W	40°59.85'N	40°53.99'N	01:28:55	37°57.99'N	37°53.75'N	01:33:08	115.7	-0.75	2.46
118°00.0'W	40°54.39'N	40°48.54'N	01:29:05	37°52.30'N	37°48.05'N	01:33:17	115.7	-0.75	2.46
117°45.0'W	40°48.93'N	40°43.08'N	01:29:15	37°46.60'N	37°42.30'N	01:33:27	115.7	-0.75	2.46
117°30.0'W	40°43.45'N	40°37.62'N	01:29:24	37°40.89'N	37°36.58'N	01:33:35	115.7	-0.75	2.46
117°15.0'W	40°37.96'N	40°32.13'N	01:29:34	37°35.16'N	37°30.87'N	01:33:44	115.7	-0.75	2.46
117°00.0'W	40°32.46'N	40°26.65'N	01:29:43	37°29.43'N	37°25.13'N	01:33:53	115.7	-0.75	2.46
116°45.0'W	40°26.95'N	40°21.15'N	01:29:52	37°23.69'N	37°19.38'N	01:34:01	115.7	-0.75	2.46
116°30.0'W	40°21.44'N	40°15.64'N	01:30:01	37°17.95'N	37°13.63'N	01:34:10	115.7	-0.75	2.46
116°15.0'W	40°15.91'N	40°10.12'N	01:30:10	37°12.20'N	37°07.87'N	01:34:18	115.7	-0.75	2.46
116°00.0'W	40°10.38'N	40°04.59'N	01:30:18	37°06.44'N	37°02.10'N	01:34:26	115.7	-0.75	2.46
115°45.0'W	40°04.84'N	39°59.06'N	01:30:27	37°00.68'N	36°56.33'N	01:34:34	115.7	-0.76	2.47
115°30.0'W	39°59.28'N	39°53.51'N	01:30:35	36°54.91'N	36°50.55'N	01:34:42	115.7	-0.76	2.47
115°15.0'W	39°53.73'N	39°47.96'N	01:30:44	36°49.13'N	36°44.76'N	01:34:49	115.7	-0.76	2.47
115°00.0'W	39°48.16'N	39°42.40'N	01:30:52	36°43.34'N	36°38.96'N	01:34:57	115.7	-0.76	2.47
114°45.0'W	39°42.59'N	39°36.83'N	01:31:00	36°37.59'N	36°33.19'N	01:35:04	115.8	-0.76	2.47
114°30.0'W	39°37.01'N	39°31.26'N	01:31:07	36°31.81'N	36°27.40'N	01:35:11	115.7	-0.75	2.46
114°15.0'W	39°31.42'N	39°25.68'N	01:31:15	36°25.97'N	36°21.55'N	01:35:18	115.7	-0.76	2.47
114°00.0'W	39°25.82'N	39°20.09'N	01:31:23	36°20.16'N	36°15.73'N	01:35:25	115.7	-0.76	2.47

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Longitude	North Graze Zone		Northern	South Graze Zone		Southern	ΔT = 66.7 s		
	Latitudes		Limit	Latitudes		Limit	Path Azm °	Elev Fact	Scale Fact km/''
	Northern Limit	Southern Limit	Universal Time h m s	Northern Limit	Southern Limit	Universal Time h m s			
113°45.0'W	39°20.22'N	39°14.49'N	01:31:30	36°14.35'N	36°09.92'N	01:35:32	115.7	-0.76	2.47
113°30.0'W	39°14.61'N	39°08.89'N	01:31:37	36°08.54'N	36°04.10'N	01:35:39	115.7	-0.76	2.47
113°15.0'W	39°08.99'N	39°03.28'N	01:31:45	36°02.72'N	35°58.27'N	01:35:45	115.7	-0.76	2.47
113°00.0'W	39°03.37'N	38°57.66'N	01:31:52	35°56.90'N	35°52.44'N	01:35:51	115.7	-0.76	2.47
112°45.0'W	38°57.74'N	38°52.04'N	01:31:58	35°51.07'N	35°46.60'N	01:35:57	115.7	-0.76	2.47
112°30.0'W	38°52.11'N	38°46.41'N	01:32:05	35°45.24'N	35°40.77'N	01:36:03	115.7	-0.76	2.48
112°15.0'W	38°46.48'N	38°40.78'N	01:32:12	35°39.41'N	35°34.93'N	01:36:09	115.7	-0.76	2.48
112°00.0'W	38°40.83'N	38°35.14'N	01:32:18	35°33.56'N	35°29.10'N	01:36:15	115.6	-0.76	2.48
111°45.0'W	38°35.19'N	38°29.50'N	01:32:25	35°27.72'N	35°23.26'N	01:36:21	115.6	-0.77	2.48
111°30.0'W	38°29.53'N	38°23.85'N	01:32:31	35°21.40'N	35°18.66'N	01:36:26	115.6	-0.77	2.48
111°15.0'W	38°23.88'N	38°18.20'N	01:32:37	35°14.74'N	35°14.74'N	01:36:31	115.6	-0.77	2.48
111°00.0'W	38°18.22'N	38°12.54'N	01:32:43	35°08.95'N	35°08.95'N	01:36:36	115.6	-0.77	2.48
110°45.0'W	38°12.55'N	38°06.89'N	01:32:48	35°03.10'N	35°03.10'N	01:36:41	115.6	-0.77	2.48
110°30.0'W	38°06.89'N	38°01.22'N	01:32:54	34°57.25'N	34°57.25'N	01:36:46	115.5	-0.77	2.48
110°15.0'W	38°01.22'N	37°55.55'N	01:32:59	34°51.40'N	34°51.40'N	01:36:51	115.5	-0.77	2.48
110°00.0'W	37°55.54'N	37°49.88'N	01:33:05	34°45.55'N	34°45.55'N	01:36:55	115.5	-0.77	2.48
109°45.0'W	37°49.86'N	37°44.21'N	01:33:10	34°39.69'N	34°39.69'N	01:37:00	115.5	-0.77	2.48
109°30.0'W	37°44.19'N	37°38.53'N	01:33:15	34°33.84'N	34°33.84'N	01:37:04	115.5	-0.77	2.48
109°15.0'W	37°38.50'N	37°32.85'N	01:33:20	34°27.98'N	34°27.98'N	01:37:08	115.4	-0.77	2.48
109°00.0'W	37°32.83'N	37°27.15'N	01:33:25	34°22.13'N	34°22.13'N	01:37:12	115.4	-0.77	2.49
108°45.0'W	37°27.17'N	37°21.44'N	01:33:29	34°16.27'N	34°16.27'N	01:37:16	115.4	-0.77	2.49
108°30.0'W	37°21.47'N	37°15.76'N	01:33:34	34°10.42'N	34°10.42'N	01:37:19	115.4	-0.77	2.49
108°15.0'W	37°15.74'N	37°10.11'N	01:33:38	34°04.56'N	34°04.56'N	01:37:23	115.3	-0.77	2.49
108°00.0'W	37°10.04'N	37°04.42'N	01:33:43	33°58.71'N	33°58.71'N	01:37:26	115.3	-0.77	2.49
107°45.0'W	37°04.35'N	36°58.72'N	01:33:47	33°52.85'N	33°52.85'N	01:37:30	115.3	-0.78	2.49
107°30.0'W	36°58.66'N	36°53.03'N	01:33:51	33°47.00'N	33°47.00'N	01:37:33	115.3	-0.78	2.49
107°15.0'W	36°52.96'N	36°47.33'N	01:33:54	33°41.15'N	33°41.15'N	01:37:36	115.2	-0.78	2.49
107°00.0'W	36°47.26'N	36°41.64'N	01:33:58	33°35.29'N	33°35.29'N	01:37:38	115.2	-0.78	2.49
106°45.0'W	36°41.57'N	36°35.94'N	01:34:02	33°29.44'N	33°29.44'N	01:37:41	115.2	-0.78	2.49
106°30.0'W	36°35.87'N	36°30.24'N	01:34:05	33°23.59'N	33°23.59'N	01:37:44	115.2	-0.78	2.49
106°15.0'W	36°30.17'N	36°24.55'N	01:34:08	33°17.75'N	33°17.75'N	01:37:46	115.1	-0.78	2.49
106°00.0'W	36°24.47'N	36°18.85'N	01:34:11	33°11.90'N	33°11.90'N	01:37:48	115.1	-0.78	2.50
105°45.0'W	36°18.77'N	36°13.15'N	01:34:14	33°06.06'N	33°06.06'N	01:37:50	115.1	-0.78	2.50
105°30.0'W	36°13.07'N	36°07.45'N	01:34:17	33°00.22'N	33°00.22'N	01:37:52	115.0	-0.78	2.50
105°15.0'W	36°07.37'N	36°01.76'N	01:34:20	32°54.38'N	32°54.38'N	01:37:54	115.0	-0.78	2.50
105°00.0'W	36°01.67'N	35°56.06'N	01:34:23	32°48.54'N	32°48.54'N	01:37:56	115.0	-0.78	2.50
104°45.0'W	35°55.97'N	35°50.36'N	01:34:25	32°42.71'N	32°42.71'N	01:37:57	114.9	-0.78	2.49
104°30.0'W	35°50.28'N	35°44.67'N	01:34:27	32°36.88'N	32°36.88'N	01:37:59	114.9	-0.77	2.49
104°15.0'W	35°44.59'N	35°38.97'N	01:34:30	32°31.05'N	32°31.05'N	01:38:00	114.8	-0.76	2.47
104°00.0'W	35°38.89'N	35°33.28'N	01:34:32	32°25.23'N	32°25.23'N	01:38:01	114.7	-0.76	2.47
103°45.0'W	35°33.20'N	35°27.59'N	01:34:33	32°19.40'N	32°19.40'N	01:38:02	114.7	-0.77	2.48
103°30.0'W	35°27.51'N	35°21.90'N	01:34:35	32°13.59'N	32°13.59'N	01:38:03	114.7	-0.78	2.49
103°15.0'W	35°21.82'N	35°16.22'N	01:34:37	32°07.77'N	32°07.77'N	01:38:04	114.7	-0.79	2.51
103°00.0'W	35°16.14'N	35°10.53'N	01:34:39	32°01.96'N	32°01.96'N	01:38:04	114.7	-0.82	2.54
102°45.0'W	35°10.45'N	35°04.85'N	01:34:40	31°56.16'N	31°56.16'N	01:38:05	114.7	-0.84	2.57
102°30.0'W	35°04.78'N	34°59.16'N	01:34:41	31°50.37'N	31°50.37'N	01:38:05	114.7	-0.88	2.62
102°15.0'W	34°59.11'N	34°53.47'N	01:34:41	31°44.59'N	31°44.59'N	01:38:05	114.7	-0.94	2.70
102°00.0'W	34°53.44'N	34°47.79'N	01:34:42	—	—	—	114.7	-1.04	2.84