

TOTAL SOLAR ECLIPSE OF 2012 NOVEMBER 13

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

| $\Delta T = 66.8 \text{ s}$ | | | | | | | | | |
|-----------------------------|-------------------|-------------------|----------------------------|-------------------|-------------------|----------------------------|------------------|--------------|------------------------|
| Longitude | North Graze Zone | | Northern | South Graze Zone | | Southern | Path Azm ° | Elev Fact | Scale Fact km/'' |
| | Latitudes | | Limit | Latitudes | | Limit | | | |
| | Northern Limit | Southern Limit | Universal Time h m s | Northern Limit | Southern Limit | Universal Time h m s | | | |
| 133°30.0'E | 11°29.28'S | 11°29.28'S | 20:35:38 | 12°41.31'S | 12°43.83'S | 20:36:31 | 109.3 | 1.78 | 3.53 |
| 133°37.5'E | 11°31.75'S | 11°31.75'S | 20:35:38 | 12°43.85'S | 12°46.48'S | 20:36:34 | 109.3 | 1.40 | 2.98 |
| 133°45.0'E | 11°34.22'S | 11°34.22'S | 20:35:39 | 12°46.41'S | 12°49.10'S | 20:36:35 | 109.3 | 1.19 | 2.69 |
| 133°52.5'E | 11°36.69'S | 11°36.69'S | 20:35:39 | 12°48.98'S | 12°51.71'S | 20:36:36 | 109.3 | 1.04 | 2.50 |
| 134°00.0'E | 11°39.16'S | 11°39.16'S | 20:35:39 | 12°51.57'S | 12°54.30'S | 20:36:37 | 109.3 | 0.93 | 2.37 |
| 134°07.5'E | 11°41.63'S | 11°41.63'S | 20:35:39 | 12°54.17'S | 12°56.90'S | 20:36:37 | 109.4 | 0.85 | 2.28 |
| 134°15.0'E | 11°44.11'S | 11°44.11'S | 20:35:39 | 12°56.78'S | 12°59.50'S | 20:36:38 | 109.4 | 0.79 | 2.21 |
| 134°22.5'E | 11°46.60'S | 11°46.60'S | 20:35:39 | 12°59.39'S | 13°02.11'S | 20:36:38 | 109.4 | 0.74 | 2.15 |
| 134°30.0'E | 11°49.10'S | 11°49.10'S | 20:35:39 | 13°02.02'S | 13°04.73'S | 20:36:38 | 109.4 | 0.70 | 2.11 |
| 134°37.5'E | 11°51.61'S | 11°51.61'S | 20:35:40 | 13°04.65'S | 13°07.35'S | 20:36:39 | 109.4 | 0.66 | 2.08 |
| 134°45.0'E | 11°54.12'S | 11°54.12'S | 20:35:40 | 13°07.28'S | 13°09.98'S | 20:36:39 | 109.4 | 0.64 | 2.05 |
| 134°52.5'E | 11°56.64'S | 11°56.64'S | 20:35:40 | 13°09.93'S | 13°12.63'S | 20:36:40 | 109.4 | 0.61 | 2.03 |
| 135°00.0'E | 11°59.17'S | 11°59.17'S | 20:35:41 | 13°12.57'S | 13°15.27'S | 20:36:41 | 109.4 | 0.59 | 2.01 |
| 135°07.5'E | 12°01.70'S | 12°01.70'S | 20:35:41 | 13°15.23'S | 13°17.93'S | 20:36:41 | 109.4 | 0.57 | 2.00 |
| 135°15.0'E | 12°04.23'S | 12°04.23'S | 20:35:42 | 13°17.89'S | 13°20.58'S | 20:36:42 | 109.4 | 0.56 | 1.99 |
| 135°22.5'E | 12°06.78'S | 12°06.78'S | 20:35:42 | 13°20.55'S | 13°23.24'S | 20:36:43 | 109.5 | 0.55 | 1.98 |
| 135°30.0'E | 12°09.33'S | 12°09.33'S | 20:35:43 | 13°23.22'S | 13°25.91'S | 20:36:44 | 109.5 | 0.53 | 1.96 |
| 135°37.5'E | 12°11.89'S | 12°11.89'S | 20:35:43 | 13°25.90'S | 13°28.59'S | 20:36:44 | 109.5 | 0.53 | 1.96 |
| 135°45.0'E | 12°14.45'S | 12°14.45'S | 20:35:44 | 13°28.59'S | 13°31.27'S | 20:36:45 | 109.5 | 0.51 | 1.95 |
| 135°52.5'E | 12°17.02'S | 12°17.02'S | 20:35:44 | 13°31.30'S | 13°33.98'S | 20:36:46 | 109.5 | 0.51 | 1.94 |
| 136°00.0'E | 12°19.60'S | 12°19.60'S | 20:35:45 | 13°34.02'S | 13°36.69'S | 20:36:47 | 109.5 | 0.50 | 1.94 |
| 136°07.5'E | 12°22.18'S | 12°22.18'S | 20:35:46 | 13°36.74'S | 13°39.41'S | 20:36:48 | 109.7 | 0.52 | 1.96 |
| 136°15.0'E | 12°24.77'S | 12°24.77'S | 20:35:47 | 13°39.44'S | 13°42.11'S | 20:36:49 | 109.8 | 0.54 | 1.97 |
| 136°22.5'E | 12°27.37'S | 12°27.37'S | 20:35:47 | 13°42.15'S | 13°44.82'S | 20:36:50 | 109.8 | 0.56 | 1.98 |
| 136°30.0'E | 12°29.98'S | 12°29.98'S | 20:35:48 | 13°44.92'S | 13°47.59'S | 20:36:51 | 109.9 | 0.56 | 1.99 |
| 136°37.5'E | 12°32.60'S | 12°32.60'S | 20:35:49 | 13°47.84'S | 13°50.50'S | 20:36:53 | 110.0 | 0.57 | 1.99 |
| 136°45.0'E | 12°35.22'S | 12°35.22'S | 20:35:50 | 13°50.74'S | 13°53.39'S | 20:36:54 | 110.0 | 0.57 | 2.00 |
| 136°52.5'E | 12°37.88'S | 12°37.88'S | 20:35:51 | 13°53.45'S | 13°56.10'S | 20:36:55 | 110.1 | 0.57 | 2.00 |
| 137°00.0'E | 12°40.65'S | 12°40.65'S | 20:35:52 | 13°55.98'S | 13°58.63'S | 20:36:56 | 110.2 | 0.58 | 2.00 |
| 137°07.5'E | 12°43.02'S | 12°43.02'S | 20:35:53 | 13°58.52'S | 14°01.16'S | 20:36:57 | 110.2 | 0.58 | 2.00 |
| 137°15.0'E | 12°45.34'S | 12°45.34'S | 20:35:54 | 14°01.25'S | 14°03.88'S | 20:36:59 | 110.3 | 0.58 | 2.00 |
| 137°22.5'E | 12°48.17'S | 12°48.17'S | 20:35:55 | 14°04.06'S | 14°06.69'S | 20:37:00 | 110.3 | 0.58 | 2.00 |
| 137°30.0'E | 12°50.87'S | 12°50.87'S | 20:35:56 | 14°06.86'S | 14°09.50'S | 20:37:02 | 110.4 | 0.58 | 2.01 |
| 137°37.5'E | 12°53.55'S | 12°53.55'S | 20:35:57 | 14°09.65'S | 14°12.30'S | 20:37:03 | 110.4 | 0.58 | 2.01 |
| 137°45.0'E | 12°56.22'S | 12°56.22'S | 20:35:58 | 14°12.44'S | 14°15.10'S | 20:37:04 | 110.5 | 0.58 | 2.01 |
| 137°52.5'E | 12°58.89'S | 12°58.89'S | 20:36:00 | 14°15.24'S | 14°17.91'S | 20:37:06 | 110.5 | 0.58 | 2.01 |
| 138°00.0'E | 13°01.58'S | 13°01.58'S | 20:36:01 | 14°18.05'S | 14°20.72'S | 20:37:08 | 110.6 | 0.59 | 2.02 |
| 138°07.5'E | 13°04.26'S | 13°04.26'S | 20:36:02 | 14°20.86'S | 14°23.53'S | 20:37:09 | 110.6 | 0.58 | 2.01 |
| 138°15.0'E | 13°06.95'S | 13°06.95'S | 20:36:03 | 14°23.67'S | 14°26.36'S | 20:37:11 | 110.7 | 0.58 | 2.01 |
| 138°22.5'E | 13°09.64'S | 13°09.64'S | 20:36:05 | 14°26.50'S | 14°29.19'S | 20:37:12 | 110.7 | 0.58 | 2.01 |
| 138°30.0'E | 13°12.35'S | 13°12.35'S | 20:36:06 | 14°29.33'S | 14°32.03'S | 20:37:14 | 110.8 | 0.58 | 2.01 |
| 138°37.5'E | 13°14.55'S | 13°15.15'S | 20:36:08 | 14°32.17'S | 14°34.87'S | 20:37:16 | 110.8 | 0.59 | 2.01 |
| 138°45.0'E | 13°17.29'S | 13°17.86'S | 20:36:09 | 14°35.01'S | 14°37.72'S | 20:37:18 | 110.9 | 0.59 | 2.01 |
| 138°52.5'E | 13°20.02'S | 13°20.57'S | 20:36:11 | 14°37.86'S | 14°40.58'S | 20:37:20 | 110.9 | 0.59 | 2.01 |
| 139°00.0'E | 13°22.75'S | 13°23.30'S | 20:36:12 | 14°40.71'S | 14°43.44'S | 20:37:21 | 111.0 | 0.59 | 2.01 |

TOTAL SOLAR ECLIPSE OF 2012 NOVEMBER 13

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

| Longitude | North Graze Zone | | Northern | South Graze Zone | | Southern | ΔT = 66.8 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 | | | |
| 139°07.5'E | 13°25.49'S | 13°26.03'S | 20:36:14 | 14°43.57'S | 14°46.31'S | 20:37:23 | 111.0 | 0.59 | 2.01 |
| 139°15.0'E | 13°28.23'S | 13°28.77'S | 20:36:15 | 14°46.44'S | 14°49.18'S | 20:37:25 | 111.1 | 0.59 | 2.01 |
| 139°22.5'E | 13°30.96'S | 13°31.51'S | 20:36:17 | 14°49.32'S | 14°52.07'S | 20:37:27 | 111.1 | 0.59 | 2.01 |
| 139°30.0'E | 13°33.71'S | 13°34.26'S | 20:36:19 | 14°52.20'S | 14°54.96'S | 20:37:29 | 111.2 | 0.59 | 2.01 |
| 139°37.5'E | 13°36.46'S | 13°37.02'S | 20:36:21 | 14°55.09'S | 14°57.85'S | 20:37:31 | 111.2 | 0.59 | 2.01 |
| 139°45.0'E | 13°39.22'S | 13°39.78'S | 20:36:22 | 14°57.98'S | 15°00.75'S | 20:37:34 | 111.3 | 0.59 | 2.01 |
| 139°52.5'E | 13°41.99'S | 13°42.55'S | 20:36:24 | 15°00.88'S | 15°03.66'S | 20:37:36 | 111.3 | 0.59 | 2.01 |
| 140°00.0'E | 13°44.77'S | 13°45.33'S | 20:36:26 | 15°03.79'S | 15°06.57'S | 20:37:38 | 111.4 | 0.59 | 2.01 |
| 140°07.5'E | 13°47.55'S | 13°48.11'S | 20:36:28 | 15°06.70'S | 15°09.50'S | 20:37:40 | 111.4 | 0.59 | 2.01 |
| 140°15.0'E | 13°50.34'S | 13°50.89'S | 20:36:30 | 15°09.63'S | 15°12.42'S | 20:37:42 | 111.5 | 0.59 | 2.01 |
| 140°22.5'E | 13°53.13'S | 13°53.69'S | 20:36:32 | 15°12.55'S | 15°15.36'S | 20:37:45 | 111.5 | 0.59 | 2.01 |
| 140°30.0'E | 13°55.93'S | 13°56.49'S | 20:36:34 | 15°15.49'S | 15°18.30'S | 20:37:47 | 111.6 | 0.59 | 2.01 |
| 140°37.5'E | 13°58.74'S | 13°59.30'S | 20:36:36 | 15°18.43'S | 15°21.25'S | 20:37:50 | 111.6 | 0.59 | 2.01 |
| 140°45.0'E | 14°01.55'S | 14°02.11'S | 20:36:38 | 15°21.37'S | 15°24.20'S | 20:37:52 | 111.7 | 0.59 | 2.01 |
| 140°52.5'E | 14°04.36'S | 14°04.93'S | 20:36:41 | 15°24.33'S | 15°27.16'S | 20:37:54 | 111.7 | 0.59 | 2.01 |
| 141°00.0'E | 14°07.17'S | 14°07.75'S | 20:36:43 | 15°27.29'S | 15°30.13'S | 20:37:57 | 111.8 | 0.59 | 2.01 |
| 141°07.5'E | 14°10.00'S | 14°10.59'S | 20:36:45 | 15°30.26'S | 15°33.10'S | 20:38:00 | 111.8 | 0.59 | 2.01 |
| 141°15.0'E | 14°12.82'S | 14°13.43'S | 20:36:47 | 15°33.23'S | 15°36.08'S | 20:38:02 | 111.8 | 0.59 | 2.01 |
| 141°22.5'E | 14°15.66'S | 14°16.27'S | 20:36:50 | 15°36.21'S | 15°39.07'S | 20:38:05 | 111.9 | 0.59 | 2.01 |
| 141°30.0'E | 14°18.49'S | 14°19.12'S | 20:36:52 | 15°39.19'S | 15°42.06'S | 20:38:08 | 111.9 | 0.59 | 2.01 |
| 141°37.5'E | 14°21.34'S | 14°21.98'S | 20:36:54 | 15°42.19'S | 15°45.06'S | 20:38:10 | 112.0 | 0.59 | 2.01 |
| 141°45.0'E | 14°24.20'S | 14°24.84'S | 20:36:57 | 15°45.19'S | 15°48.07'S | 20:38:13 | 112.0 | 0.59 | 2.01 |
| 141°52.5'E | 14°27.05'S | 14°27.71'S | 20:36:59 | 15°48.19'S | 15°51.08'S | 20:38:16 | 112.1 | 0.59 | 2.01 |
| 142°00.0'E | 14°29.92'S | 14°30.59'S | 20:37:02 | 15°51.20'S | 15°54.10'S | 20:38:19 | 112.1 | 0.59 | 2.01 |
| 142°07.5'E | 14°32.79'S | 14°33.47'S | 20:37:04 | 15°54.22'S | 15°57.12'S | 20:38:22 | 112.2 | 0.59 | 2.01 |
| 142°15.0'E | 14°35.67'S | 14°36.36'S | 20:37:07 | 15°57.25'S | 16°00.16'S | 20:38:25 | 112.2 | 0.59 | 2.01 |
| 142°22.5'E | 14°38.56'S | 14°39.26'S | 20:37:10 | 16°00.28'S | 16°03.19'S | 20:38:28 | 112.3 | 0.59 | 2.01 |
| 142°30.0'E | 14°41.45'S | 14°42.16'S | 20:37:12 | 16°03.32'S | 16°06.24'S | 20:38:31 | 112.3 | 0.59 | 2.01 |
| 142°37.5'E | 14°44.35'S | 14°45.07'S | 20:37:15 | 16°06.36'S | 16°09.29'S | 20:38:34 | 112.4 | 0.59 | 2.01 |
| 142°45.0'E | 14°47.26'S | 14°47.98'S | 20:37:18 | 16°09.42'S | 16°12.35'S | 20:38:37 | 112.4 | 0.59 | 2.01 |
| 142°52.5'E | 14°50.17'S | 14°50.90'S | 20:37:21 | 16°12.48'S | 16°15.41'S | 20:38:40 | 112.5 | 0.59 | 2.01 |
| 143°00.0'E | 14°53.09'S | 14°53.83'S | 20:37:24 | 16°15.54'S | 16°18.49'S | 20:38:43 | 112.5 | 0.59 | 2.01 |
| 143°07.5'E | 14°56.01'S | 14°56.76'S | 20:37:27 | 16°18.61'S | 16°21.56'S | 20:38:47 | 112.6 | 0.59 | 2.01 |
| 143°15.0'E | 14°58.94'S | 14°59.70'S | 20:37:30 | 16°21.69'S | 16°24.65'S | 20:38:50 | 112.6 | 0.59 | 2.01 |
| 143°22.5'E | 15°01.88'S | 15°02.65'S | 20:37:33 | 16°24.77'S | 16°27.74'S | 20:38:53 | 112.7 | 0.59 | 2.01 |
| 143°30.0'E | 15°04.83'S | 15°05.60'S | 20:37:36 | 16°27.86'S | 16°30.83'S | 20:38:57 | 112.7 | 0.59 | 2.01 |
| 143°37.5'E | 15°07.78'S | 15°08.56'S | 20:37:39 | 16°30.96'S | 16°33.94'S | 20:39:00 | 112.8 | 0.59 | 2.01 |
| 143°45.0'E | 15°10.73'S | 15°11.53'S | 20:37:42 | 16°34.06'S | 16°37.05'S | 20:39:04 | 112.8 | 0.59 | 2.01 |
| 143°52.5'E | 15°13.70'S | 15°14.50'S | 20:37:45 | 16°37.18'S | 16°40.16'S | 20:39:07 | 112.9 | 0.59 | 2.01 |
| 144°00.0'E | 15°16.67'S | 15°17.48'S | 20:37:48 | 16°40.29'S | 16°43.29'S | 20:39:11 | 112.9 | 0.59 | 2.01 |
| 144°07.5'E | 15°19.65'S | 15°20.46'S | 20:37:52 | 16°43.41'S | 16°46.41'S | 20:39:14 | 113.0 | 0.59 | 2.01 |
| 144°15.0'E | 15°22.63'S | 15°23.45'S | 20:37:55 | 16°46.54'S | 16°49.55'S | 20:39:18 | 113.0 | 0.59 | 2.01 |
| 144°22.5'E | 15°25.62'S | 15°26.45'S | 20:37:58 | 16°49.68'S | 16°52.69'S | 20:39:22 | 113.1 | 0.59 | 2.01 |
| 144°30.0'E | 15°28.62'S | 15°29.46'S | 20:38:02 | 16°52.82'S | 16°55.84'S | 20:39:26 | 113.1 | 0.59 | 2.01 |
| 144°37.5'E | 15°31.62'S | 15°32.47'S | 20:38:05 | 16°55.97'S | 16°59.00'S | 20:39:29 | 113.2 | 0.59 | 2.01 |
| 144°45.0'E | 15°34.63'S | 15°35.48'S | 20:38:09 | 16°59.12'S | 17°02.16'S | 20:39:33 | 113.2 | 0.59 | 2.01 |
| 144°52.5'E | 15°37.65'S | 15°38.50'S | 20:38:12 | 17°02.28'S | 17°05.33'S | 20:39:37 | 113.3 | 0.59 | 2.01 |
| 145°00.0'E | 15°40.67'S | 15°41.53'S | 20:38:16 | 17°05.45'S | 17°08.50'S | 20:39:41 | 113.3 | 0.59 | 2.01 |

TOTAL SOLAR ECLIPSE OF 2012 NOVEMBER 13

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

| Longitude | North Graze Zone | | Northern | South Graze Zone | | Southern | ΔT = 66.8 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 | | | |
| 145°07.5'E | 15°43.70'S | 15°44.57'S | 20:38:19 | 17°08.62'S | 17°11.68'S | 20:39:45 | 113.4 | 0.59 | 2.01 |
| 145°15.0'E | 15°46.73'S | 15°47.61'S | 20:38:23 | 17°11.80'S | 17°14.87'S | 20:39:49 | 113.4 | 0.59 | 2.01 |
| 145°22.5'E | 15°49.77'S | 15°50.66'S | 20:38:27 | 17°14.99'S | 17°18.06'S | 20:39:53 | 113.5 | 0.59 | 2.01 |
| 145°30.0'E | 15°52.82'S | 15°53.71'S | 20:38:30 | 17°18.18'S | 17°21.26'S | 20:39:57 | 113.5 | 0.59 | 2.01 |
| 145°37.5'E | 15°55.88'S | 15°56.77'S | 20:38:34 | 17°21.38'S | 17°24.47'S | 20:40:02 | 113.6 | 0.59 | 2.01 |
| 145°45.0'E | 15°58.94'S | 15°59.84'S | 20:38:38 | 17°24.59'S | 17°27.68'S | 20:40:06 | 113.6 | 0.59 | 2.01 |
| 145°52.5'E | 16°02.00'S | 16°02.91'S | 20:38:42 | 17°27.80'S | 17°30.90'S | 20:40:10 | 113.7 | 0.59 | 2.01 |
| 146°00.0'E | 16°05.08'S | 16°05.99'S | 20:38:46 | 17°31.02'S | 17°34.12'S | 20:40:14 | 113.7 | 0.59 | 2.01 |
| 146°07.5'E | 16°08.16'S | 16°09.08'S | 20:38:50 | 17°34.24'S | 17°37.36'S | 20:40:19 | 113.7 | 0.59 | 2.01 |
| 146°15.0'E | 16°11.24'S | 16°12.17'S | 20:38:54 | 17°37.47'S | 17°40.59'S | 20:40:23 | 113.8 | 0.59 | 2.01 |
| 146°22.5'E | 16°14.34'S | 16°15.27'S | 20:38:58 | 17°40.71'S | 17°43.84'S | 20:40:28 | 113.8 | 0.59 | 2.01 |
| 146°30.0'E | 16°17.44'S | 16°18.37'S | 20:39:02 | 17°43.96'S | 17°47.09'S | 20:40:32 | 113.9 | 0.59 | 2.01 |
| 146°37.5'E | 16°20.54'S | 16°21.49'S | 20:39:06 | 17°47.21'S | 17°50.35'S | 20:40:37 | 113.9 | 0.59 | 2.01 |
| 146°45.0'E | 16°23.65'S | 16°24.60'S | 20:39:11 | 17°50.46'S | 17°53.61'S | 20:40:41 | 114.0 | 0.59 | 2.01 |
| 146°52.5'E | 16°26.77'S | 16°27.73'S | 20:39:15 | 17°53.73'S | 17°56.88'S | 20:40:46 | 114.0 | 0.59 | 2.01 |
| 147°00.0'E | 16°29.90'S | 16°30.86'S | 20:39:19 | 17°56.99'S | 18°00.15'S | 20:40:51 | 114.1 | 0.59 | 2.01 |
| 147°07.5'E | 16°33.03'S | 16°33.99'S | 20:39:24 | 18°00.27'S | 18°03.43'S | 20:40:56 | 114.1 | 0.59 | 2.01 |
| 147°15.0'E | 16°36.17'S | 16°37.13'S | 20:39:28 | 18°03.55'S | 18°06.72'S | 20:41:00 | 114.2 | 0.59 | 2.01 |
| 147°22.5'E | 16°39.31'S | 16°40.28'S | 20:39:33 | 18°06.84'S | 18°10.02'S | 20:41:05 | 114.2 | 0.59 | 2.01 |
| 147°30.0'E | 16°42.46'S | 16°43.44'S | 20:39:37 | 18°10.14'S | 18°13.32'S | 20:41:10 | 114.3 | 0.59 | 2.01 |
| 147°37.5'E | 16°45.62'S | 16°46.60'S | 20:39:42 | 18°13.44'S | 18°16.63'S | 20:41:15 | 114.3 | 0.59 | 2.01 |
| 147°45.0'E | 16°48.78'S | 16°49.77'S | 20:39:46 | 18°16.75'S | 18°19.94'S | 20:41:20 | 114.4 | 0.59 | 2.01 |
| 147°52.5'E | 16°51.95'S | 16°52.94'S | 20:39:51 | 18°20.06'S | 18°23.26'S | 20:41:25 | 114.4 | 0.59 | 2.01 |
| 148°00.0'E | 16°55.12'S | 16°56.12'S | 20:39:56 | 18°23.38'S | 18°26.59'S | 20:41:30 | 114.5 | 0.59 | 2.01 |
| 148°07.5'E | 16°58.31'S | 16°59.31'S | 20:40:00 | 18°26.71'S | 18°29.92'S | 20:41:35 | 114.5 | 0.59 | 2.01 |
| 148°15.0'E | 17°01.49'S | 17°02.50'S | 20:40:05 | 18°30.04'S | 18°33.26'S | 20:41:41 | 114.6 | 0.59 | 2.01 |
| 148°22.5'E | 17°04.69'S | 17°05.70'S | 20:40:10 | 18°33.38'S | 18°36.60'S | 20:41:46 | 114.6 | 0.59 | 2.01 |
| 148°30.0'E | 17°07.89'S | 17°08.90'S | 20:40:15 | 18°36.72'S | 18°39.95'S | 20:41:51 | 114.7 | 0.59 | 2.01 |
| 148°37.5'E | 17°11.10'S | 17°12.11'S | 20:40:20 | 18°40.07'S | 18°43.31'S | 20:41:56 | 114.7 | 0.59 | 2.01 |
| 148°45.0'E | 17°14.31'S | 17°15.33'S | 20:40:25 | 18°43.43'S | 18°46.67'S | 20:42:02 | 114.8 | 0.59 | 2.01 |
| 148°52.5'E | 17°17.53'S | 17°18.55'S | 20:40:30 | 18°46.80'S | 18°50.04'S | 20:42:07 | 114.8 | 0.59 | 2.01 |
| 149°00.0'E | 17°20.75'S | 17°21.78'S | 20:40:35 | 18°50.16'S | 18°53.41'S | 20:42:13 | 114.9 | 0.59 | 2.01 |
| 149°07.5'E | 17°23.99'S | 17°25.02'S | 20:40:40 | 18°53.54'S | 18°56.79'S | 20:42:18 | 114.9 | 0.59 | 2.01 |
| 149°15.0'E | 17°27.22'S | 17°28.26'S | 20:40:45 | 18°56.92'S | 19°00.18'S | 20:42:24 | 114.9 | 0.59 | 2.01 |
| 149°22.5'E | 17°30.47'S | 17°31.50'S | 20:40:50 | 19°00.31'S | 19°03.57'S | 20:42:30 | 115.0 | 0.59 | 2.02 |
| 149°30.0'E | 17°33.72'S | 17°34.76'S | 20:40:56 | 19°03.71'S | 19°06.97'S | 20:42:35 | 115.0 | 0.59 | 2.02 |
| 149°37.5'E | 17°36.97'S | 17°38.02'S | 20:41:01 | 19°07.11'S | 19°10.38'S | 20:42:41 | 115.1 | 0.59 | 2.01 |
| 149°45.0'E | 17°40.24'S | 17°41.28'S | 20:41:07 | 19°10.51'S | 19°13.79'S | 20:42:47 | 115.1 | 0.59 | 2.02 |
| 149°52.5'E | 17°43.51'S | 17°44.56'S | 20:41:12 | 19°13.92'S | 19°17.21'S | 20:42:53 | 115.2 | 0.59 | 2.01 |
| 150°00.0'E | 17°46.78'S | 17°47.83'S | 20:41:17 | 19°17.34'S | 19°20.63'S | 20:42:59 | 115.2 | 0.59 | 2.02 |
| 150°07.5'E | 17°50.06'S | 17°51.12'S | 20:41:23 | 19°20.77'S | 19°24.06'S | 20:43:05 | 115.3 | 0.59 | 2.01 |
| 150°15.0'E | 17°53.35'S | 17°54.41'S | 20:41:29 | 19°24.20'S | 19°27.49'S | 20:43:11 | 115.3 | 0.59 | 2.02 |
| 150°22.5'E | 17°56.64'S | 17°57.70'S | 20:41:34 | 19°27.63'S | 19°30.93'S | 20:43:17 | 115.4 | 0.59 | 2.02 |
| 150°30.0'E | 17°59.94'S | 18°01.00'S | 20:41:40 | 19°31.08'S | 19°34.38'S | 20:43:23 | 115.4 | 0.59 | 2.02 |
| 150°37.5'E | 18°03.25'S | 18°04.31'S | 20:41:46 | 19°34.53'S | 19°37.83'S | 20:43:29 | 115.5 | 0.59 | 2.02 |
| 150°45.0'E | 18°06.56'S | 18°07.63'S | 20:41:51 | 19°37.98'S | 19°41.29'S | 20:43:35 | 115.5 | 0.59 | 2.01 |
| 150°52.5'E | 18°09.87'S | 18°10.95'S | 20:41:57 | 19°41.44'S | 19°44.76'S | 20:43:41 | 115.6 | 0.59 | 2.01 |
| 151°00.0'E | 18°13.20'S | 18°14.27'S | 20:42:03 | 19°44.91'S | 19°48.23'S | 20:43:48 | 115.6 | 0.59 | 2.01 |

TOTAL SOLAR ECLIPSE OF 2012 NOVEMBER 13

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

(continued)

ΔT = 66.8 s

| Longitude | North Graze Zone | | Northern | South Graze Zone | | Southern | Path Azm ° | Elev Fact | Scale Fact km/'' |
|------------|-------------------|-------------------|----------------------------|-------------------|-------------------|----------------------------|------------------|--------------|------------------------|
| | Latitudes | | Limit | Latitudes | | Limit | | | |
| | Northern Limit | Southern Limit | Universal Time h m s | Northern Limit | Southern Limit | Universal Time h m s | | | |
| 151°07.5'E | 18°16.53'S | 18°17.60'S | 20:42:09 | 19°48.38'S | 19°51.70'S | 20:43:54 | 115.6 | 0.59 | 2.01 |
| 151°15.0'E | 18°19.86'S | 18°20.94'S | 20:42:15 | 19°51.86'S | 19°55.19'S | 20:44:01 | 115.7 | 0.59 | 2.01 |
| 151°22.5'E | 18°23.20'S | 18°24.28'S | 20:42:21 | 19°55.34'S | 19°58.67'S | 20:44:07 | 115.7 | 0.59 | 2.01 |
| 151°30.0'E | 18°26.55'S | 18°27.63'S | 20:42:27 | 19°58.83'S | 20°02.17'S | 20:44:13 | 115.8 | 0.59 | 2.01 |
| 151°37.5'E | 18°29.90'S | 18°30.99'S | 20:42:33 | 20°02.33'S | 20°05.67'S | 20:44:20 | 115.8 | 0.59 | 2.01 |
| 151°45.0'E | 18°33.26'S | 18°34.35'S | 20:42:40 | 20°05.83'S | 20°09.17'S | 20:44:27 | 115.9 | 0.59 | 2.01 |
| 151°52.5'E | 18°36.63'S | 18°37.71'S | 20:42:46 | 20°09.33'S | 20°12.68'S | 20:44:33 | 115.9 | 0.59 | 2.01 |
| 152°00.0'E | 18°40.00'S | 18°41.09'S | 20:42:52 | 20°12.85'S | 20°16.20'S | 20:44:40 | 116.0 | 0.59 | 2.01 |
| 152°07.5'E | 18°43.37'S | 18°44.47'S | 20:42:59 | 20°16.37'S | 20°19.72'S | 20:44:47 | 116.0 | 0.59 | 2.01 |
| 152°15.0'E | 18°46.76'S | 18°47.85'S | 20:43:05 | 20°19.89'S | 20°23.25'S | 20:44:54 | 116.1 | 0.59 | 2.01 |
| 152°22.5'E | 18°50.15'S | 18°51.24'S | 20:43:11 | 20°23.42'S | 20°26.78'S | 20:45:01 | 116.1 | 0.59 | 2.01 |
| 152°30.0'E | 18°53.54'S | 18°54.63'S | 20:43:18 | 20°26.95'S | 20°30.32'S | 20:45:08 | 116.1 | 0.59 | 2.01 |
| 152°37.5'E | 18°56.94'S | 18°58.04'S | 20:43:24 | 20°30.50'S | 20°33.86'S | 20:45:15 | 116.2 | 0.59 | 2.01 |
| 152°45.0'E | 19°00.34'S | 19°01.44'S | 20:43:31 | 20°34.04'S | 20°37.41'S | 20:45:22 | 116.2 | 0.59 | 2.01 |
| 152°52.5'E | 19°03.76'S | 19°04.86'S | 20:43:38 | 20°37.59'S | 20°40.97'S | 20:45:29 | 116.3 | 0.59 | 2.01 |
| 153°00.0'E | 19°07.17'S | 19°08.27'S | 20:43:44 | 20°41.15'S | 20°44.53'S | 20:45:36 | 116.3 | 0.59 | 2.01 |
| 153°07.5'E | 19°10.60'S | 19°11.70'S | 20:43:51 | 20°44.71'S | 20°48.09'S | 20:45:43 | 116.4 | 0.59 | 2.01 |
| 153°15.0'E | 19°14.02'S | 19°15.13'S | 20:43:58 | 20°48.29'S | 20°51.67'S | 20:45:50 | 116.4 | 0.59 | 2.01 |
| 153°22.5'E | 19°17.46'S | 19°18.56'S | 20:44:05 | 20°51.88'S | 20°55.25'S | 20:45:58 | 116.5 | 0.59 | 2.01 |
| 153°30.0'E | 19°20.90'S | 19°22.00'S | 20:44:12 | 20°55.46'S | 20°58.84'S | 20:46:05 | 116.5 | 0.59 | 2.01 |
| 153°37.5'E | 19°24.34'S | 19°25.45'S | 20:44:19 | 20°59.05'S | 21°02.43'S | 20:46:12 | 116.6 | 0.59 | 2.01 |
| 153°45.0'E | 19°27.79'S | 19°28.90'S | 20:44:26 | 21°02.64'S | 21°06.02'S | 20:46:20 | 116.6 | 0.59 | 2.01 |
| 153°52.5'E | 19°31.25'S | 19°32.36'S | 20:44:33 | 21°06.23'S | 21°09.62'S | 20:46:27 | 116.6 | 0.59 | 2.01 |
| 154°00.0'E | 19°34.71'S | 19°35.82'S | 20:44:40 | 21°09.83'S | 21°13.22'S | 20:46:35 | 116.7 | 0.59 | 2.01 |
| 154°07.5'E | 19°38.18'S | 19°39.29'S | 20:44:47 | 21°13.44'S | 21°16.83'S | 20:46:43 | 116.7 | 0.59 | 2.01 |
| 154°15.0'E | 19°41.65'S | 19°42.76'S | 20:44:55 | 21°17.05'S | 21°20.44'S | 20:46:50 | 116.8 | 0.59 | 2.01 |
| 154°22.5'E | 19°45.13'S | 19°46.24'S | 20:45:02 | 21°20.67'S | 21°24.06'S | 20:46:58 | 116.8 | 0.59 | 2.01 |
| 154°30.0'E | 19°48.61'S | 19°49.72'S | 20:45:09 | 21°24.29'S | 21°27.68'S | 20:47:06 | 116.9 | 0.59 | 2.01 |
| 154°37.5'E | 19°52.10'S | 19°53.21'S | 20:45:17 | 21°27.92'S | 21°31.31'S | 20:47:14 | 116.9 | 0.59 | 2.01 |
| 154°45.0'E | 19°55.60'S | 19°56.71'S | 20:45:24 | 21°31.55'S | 21°34.95'S | 20:47:22 | 116.9 | 0.59 | 2.01 |
| 154°52.5'E | 19°59.10'S | 20°00.21'S | 20:45:32 | 21°35.19'S | 21°38.59'S | 20:47:30 | 117.0 | 0.59 | 2.01 |
| 155°00.0'E | 20°02.60'S | 20°03.71'S | 20:45:39 | 21°38.83'S | 21°42.23'S | 20:47:38 | 117.0 | 0.59 | 2.01 |
| 155°07.5'E | 20°06.11'S | 20°07.22'S | 20:45:47 | 21°42.48'S | 21°45.88'S | 20:47:46 | 117.1 | 0.59 | 2.01 |
| 155°15.0'E | 20°09.63'S | 20°10.74'S | 20:45:55 | 21°46.13'S | 21°49.54'S | 20:47:54 | 117.1 | 0.59 | 2.01 |
| 155°22.5'E | 20°13.16'S | 20°14.26'S | 20:46:02 | 21°49.79'S | 21°53.19'S | 20:48:02 | 117.2 | 0.59 | 2.01 |
| 155°30.0'E | 20°16.69'S | 20°17.79'S | 20:46:10 | 21°53.45'S | 21°56.86'S | 20:48:10 | 117.2 | 0.59 | 2.01 |
| 155°37.5'E | 20°20.22'S | 20°21.32'S | 20:46:18 | 21°57.11'S | 22°00.53'S | 20:48:19 | 117.2 | 0.59 | 2.01 |
| 155°45.0'E | 20°23.76'S | 20°24.85'S | 20:46:26 | 22°00.79'S | 22°04.20'S | 20:48:27 | 117.3 | 0.59 | 2.01 |
| 155°52.5'E | 20°27.30'S | 20°28.40'S | 20:46:34 | 22°04.46'S | 22°07.88'S | 20:48:35 | 117.3 | 0.59 | 2.01 |
| 156°00.0'E | 20°30.84'S | 20°31.94'S | 20:46:42 | 22°08.14'S | 22°11.56'S | 20:48:44 | 117.4 | 0.59 | 2.01 |
| 156°07.5'E | 20°34.40'S | 20°35.49'S | 20:46:50 | 22°11.83'S | 22°15.25'S | 20:48:52 | 117.4 | 0.59 | 2.01 |
| 156°15.0'E | 20°37.95'S | 20°39.05'S | 20:46:58 | 22°15.52'S | 22°18.94'S | 20:49:01 | 117.4 | 0.59 | 2.01 |
| 156°22.5'E | 20°41.52'S | 20°42.61'S | 20:47:06 | 22°19.22'S | 22°22.64'S | 20:49:09 | 117.5 | 0.59 | 2.01 |
| 156°30.0'E | 20°45.08'S | 20°46.18'S | 20:47:14 | 22°22.92'S | 22°26.34'S | 20:49:18 | 117.5 | 0.59 | 2.01 |
| 156°37.5'E | 20°48.65'S | 20°49.75'S | 20:47:23 | 22°26.62'S | 22°30.05'S | 20:49:27 | 117.6 | 0.59 | 2.01 |
| 156°45.0'E | 20°52.23'S | 20°53.33'S | 20:47:31 | 22°30.33'S | 22°33.76'S | 20:49:36 | 117.6 | 0.59 | 2.01 |
| 156°52.5'E | 20°55.81'S | 20°56.91'S | 20:47:39 | 22°34.05'S | 22°37.47'S | 20:49:44 | 117.7 | 0.59 | 2.01 |
| 157°00.0'E | 20°59.40'S | 21°00.49'S | 20:47:48 | 22°37.76'S | 22°41.19'S | 20:49:53 | 117.7 | 0.59 | 2.01 |

TOTAL SOLAR ECLIPSE OF 2012 NOVEMBER 13

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

| Longitude | North Graze Zone | | Northern | South Graze Zone | | Southern | ΔT = 66.8 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 | | | |
| 157°07.5'E | 21°02.99'S | 21°04.08'S | 20:47:56 | 22°41.49'S | 22°44.92'S | 20:50:02 | 117.7 | 0.59 | 2.01 |
| 157°15.0'E | 21°06.58'S | 21°07.68'S | 20:48:05 | 22°45.21'S | 22°48.64'S | 20:50:11 | 117.8 | 0.59 | 2.01 |
| 157°22.5'E | 21°10.18'S | 21°11.28'S | 20:48:14 | 22°48.95'S | 22°52.38'S | 20:50:20 | 117.8 | 0.59 | 2.01 |
| 157°30.0'E | 21°13.79'S | 21°14.88'S | 20:48:22 | 22°52.68'S | 22°56.11'S | 20:50:29 | 117.8 | 0.59 | 2.01 |
| 157°37.5'E | 21°17.40'S | 21°18.49'S | 20:48:31 | 22°56.42'S | 22°59.86'S | 20:50:39 | 117.9 | 0.59 | 2.01 |
| 157°45.0'E | 21°21.01'S | 21°22.10'S | 20:48:40 | 23°00.17'S | 23°03.60'S | 20:50:48 | 117.9 | 0.59 | 2.01 |
| 157°52.5'E | 21°24.63'S | 21°25.72'S | 20:48:49 | 23°03.91'S | 23°07.35'S | 20:50:57 | 118.0 | 0.59 | 2.01 |
| 158°00.0'E | 21°28.25'S | 21°29.35'S | 20:48:58 | 23°07.67'S | 23°11.10'S | 20:51:06 | 118.0 | 0.59 | 2.01 |
| 158°07.5'E | 21°31.88'S | 21°32.97'S | 20:49:06 | 23°11.42'S | 23°14.86'S | 20:51:16 | 118.0 | 0.59 | 2.01 |
| 158°15.0'E | 21°35.51'S | 21°36.60'S | 20:49:15 | 23°15.18'S | 23°18.62'S | 20:51:25 | 118.1 | 0.58 | 2.01 |
| 158°22.5'E | 21°39.14'S | 21°40.24'S | 20:49:25 | 23°18.95'S | 23°22.39'S | 20:51:35 | 118.1 | 0.58 | 2.01 |
| 158°30.0'E | 21°42.78'S | 21°43.88'S | 20:49:34 | 23°22.72'S | 23°26.16'S | 20:51:44 | 118.2 | 0.58 | 2.01 |
| 158°37.5'E | 21°46.42'S | 21°47.52'S | 20:49:43 | 23°26.49'S | 23°29.93'S | 20:51:54 | 118.2 | 0.58 | 2.01 |
| 158°45.0'E | 21°50.07'S | 21°51.17'S | 20:49:52 | 23°30.27'S | 23°33.71'S | 20:52:04 | 118.2 | 0.58 | 2.01 |
| 158°52.5'E | 21°53.72'S | 21°54.83'S | 20:50:01 | 23°34.05'S | 23°37.49'S | 20:52:13 | 118.3 | 0.58 | 2.01 |
| 159°00.0'E | 21°57.38'S | 21°58.48'S | 20:50:11 | 23°37.83'S | 23°41.27'S | 20:52:23 | 118.3 | 0.58 | 2.01 |
| 159°07.5'E | 22°01.04'S | 22°02.15'S | 20:50:20 | 23°41.62'S | 23°45.06'S | 20:52:33 | 118.3 | 0.58 | 2.01 |
| 159°15.0'E | 22°04.70'S | 22°05.81'S | 20:50:29 | 23°45.41'S | 23°48.85'S | 20:52:43 | 118.4 | 0.58 | 2.01 |
| 159°22.5'E | 22°08.37'S | 22°09.48'S | 20:50:39 | 23°49.21'S | 23°52.65'S | 20:52:53 | 118.4 | 0.58 | 2.01 |
| 159°30.0'E | 22°12.04'S | 22°13.15'S | 20:50:49 | 23°53.00'S | 23°56.45'S | 20:53:03 | 118.4 | 0.58 | 2.01 |
| 159°37.5'E | 22°15.72'S | 22°16.83'S | 20:50:58 | 23°56.81'S | 24°00.25'S | 20:53:13 | 118.5 | 0.58 | 2.01 |
| 159°45.0'E | 22°19.40'S | 22°20.51'S | 20:51:08 | 24°00.61'S | 24°04.06'S | 20:53:23 | 118.5 | 0.58 | 2.01 |
| 159°52.5'E | 22°23.09'S | 22°24.20'S | 20:51:18 | 24°04.42'S | 24°07.86'S | 20:53:33 | 118.5 | 0.58 | 2.01 |
| 160°00.0'E | 22°26.78'S | 22°27.89'S | 20:51:27 | 24°08.23'S | 24°11.68'S | 20:53:43 | 118.6 | 0.58 | 2.01 |
| 160°07.5'E | 22°30.47'S | 22°31.58'S | 20:51:37 | 24°12.05'S | 24°15.49'S | 20:53:53 | 118.6 | 0.58 | 2.00 |
| 160°15.0'E | 22°34.17'S | 22°35.28'S | 20:51:47 | 24°15.87'S | 24°19.31'S | 20:54:04 | 118.6 | 0.58 | 2.00 |
| 160°22.5'E | 22°37.87'S | 22°38.98'S | 20:51:57 | 24°19.69'S | 24°23.13'S | 20:54:14 | 118.7 | 0.58 | 2.00 |
| 160°30.0'E | 22°41.57'S | 22°42.68'S | 20:52:07 | 24°23.51'S | 24°26.96'S | 20:54:24 | 118.7 | 0.58 | 2.00 |
| 160°37.5'E | 22°45.28'S | 22°46.39'S | 20:52:17 | 24°27.34'S | 24°30.79'S | 20:54:35 | 118.7 | 0.58 | 2.00 |
| 160°45.0'E | 22°48.99'S | 22°50.10'S | 20:52:27 | 24°31.17'S | 24°34.62'S | 20:54:45 | 118.8 | 0.58 | 2.00 |
| 160°52.5'E | 22°52.70'S | 22°53.82'S | 20:52:37 | 24°35.01'S | 24°38.45'S | 20:54:56 | 118.8 | 0.58 | 2.00 |
| 161°00.0'E | 22°56.42'S | 22°57.54'S | 20:52:48 | 24°38.85'S | 24°42.29'S | 20:55:07 | 118.8 | 0.58 | 2.00 |
| 161°07.5'E | 23°00.14'S | 23°01.26'S | 20:52:58 | 24°42.69'S | 24°46.13'S | 20:55:17 | 118.9 | 0.58 | 2.00 |
| 161°15.0'E | 23°03.87'S | 23°04.98'S | 20:53:08 | 24°46.53'S | 24°49.97'S | 20:55:28 | 118.9 | 0.58 | 2.00 |
| 161°22.5'E | 23°07.59'S | 23°08.71'S | 20:53:19 | 24°50.37'S | 24°53.82'S | 20:55:39 | 118.9 | 0.58 | 2.00 |
| 161°30.0'E | 23°11.32'S | 23°12.44'S | 20:53:29 | 24°54.22'S | 24°57.67'S | 20:55:50 | 119.0 | 0.58 | 2.00 |
| 161°37.5'E | 23°15.06'S | 23°16.18'S | 20:53:40 | 24°58.07'S | 25°01.52'S | 20:56:01 | 119.0 | 0.58 | 2.00 |
| 161°45.0'E | 23°18.80'S | 23°19.91'S | 20:53:50 | 25°01.93'S | 25°05.37'S | 20:56:12 | 119.0 | 0.58 | 2.00 |
| 161°52.5'E | 23°22.54'S | 23°23.66'S | 20:54:01 | 25°05.78'S | 25°09.23'S | 20:56:23 | 119.1 | 0.58 | 2.00 |
| 162°00.0'E | 23°26.28'S | 23°27.40'S | 20:54:11 | 25°09.64'S | 25°13.08'S | 20:56:34 | 119.1 | 0.58 | 2.00 |
| 162°07.5'E | 23°30.03'S | 23°31.15'S | 20:54:22 | 25°13.50'S | 25°16.94'S | 20:56:45 | 119.1 | 0.58 | 2.00 |
| 162°15.0'E | 23°33.78'S | 23°34.90'S | 20:54:33 | 25°17.36'S | 25°20.81'S | 20:56:56 | 119.2 | 0.57 | 2.00 |
| 162°22.5'E | 23°37.53'S | 23°38.65'S | 20:54:44 | 25°21.23'S | 25°24.67'S | 20:57:07 | 119.2 | 0.57 | 2.00 |
| 162°30.0'E | 23°41.29'S | 23°42.41'S | 20:54:55 | 25°25.10'S | 25°28.54'S | 20:57:19 | 119.2 | 0.57 | 2.00 |
| 162°37.5'E | 23°45.05'S | 23°46.16'S | 20:55:06 | 25°28.97'S | 25°32.41'S | 20:57:30 | 119.2 | 0.57 | 2.00 |
| 162°45.0'E | 23°48.81'S | 23°49.93'S | 20:55:17 | 25°32.84'S | 25°36.28'S | 20:57:41 | 119.3 | 0.57 | 2.00 |
| 162°52.5'E | 23°52.57'S | 23°53.69'S | 20:55:28 | 25°36.71'S | 25°40.15'S | 20:57:53 | 119.3 | 0.57 | 2.00 |
| 163°00.0'E | 23°56.34'S | 23°57.46'S | 20:55:39 | 25°40.59'S | 25°44.03'S | 20:58:04 | 119.3 | 0.57 | 2.00 |