

**Table 4 – Total Eclipse Circumstances for South Island, New Zealand**

Location	Partial Eclipse Begins	Total Eclipse Begins	Total Eclipse Ends	Partial Eclipse Ends	Duration Totality	Sun Altitude
Alexandra	03:08:13 pm	04:15:35 pm	04:18:25 pm	05:20:13 pm	02m53s	9°
Balclutha	03:08:13 pm	04:15:41 pm	04:17:32 pm	05:19:39 pm	01m54s	9°
Dunedin	03:09:07 pm	04:15:56 pm	04:18:43 pm	-	02m51s	8°
Glenorchy	03:07:16 pm	04:15:07 pm	04:17:59 pm	05:20:11 pm	02m56s	10°
Kingston	03:07:27 pm	04:15:07 pm	04:17:47 pm	05:19:58 pm	02m42s	10°
Milton	03:08:29 pm	04:15:37 pm	04:18:02 pm	05:19:48 pm	02m29s	9°
Palmerston	03:09:29 pm	04:16:30 pm	04:18:45 pm	-	02m19s	8°
Queenstown	03:07:31 pm	04:15:13 pm	04:18:03 pm	05:20:09 pm	02m55s	10°
Wanaka	03:08:08 pm	04:15:53 pm	04:18:16 pm	05:20:30 pm	02m26s	10°

**Table 5 - Partial Eclipse Circumstances for Australia**

Location	Partial Eclipse Begins	Maximum Eclipse	Partial Eclipse Ends	Eclipse Magnitude	Sun Altitude
Adelaide, SA	11:47:54 am	01:11:26 pm	02:29:22 pm	0.803	34°
Albury, VIC	12:34:26 pm	01:55:45 pm	03:10:11 pm	0.909	29°
Alice Springs, NT	11:21:59 am	12:53:27 pm	02:19:54 pm	0.954	46°
Ballarat, VIC	12:30:23 pm	01:51:18 pm	03:06:03 pm	0.832	29°
Bendigo, VIC	12:30:21 pm	01:51:49 pm	03:06:53 pm	0.854	30°
Brisbane, QLD	12:41:10 pm	02:02:01 pm	03:14:37 pm	0.844	33°
Broken Hill, NSW	12:19:55 pm	01:45:22 pm	03:04:03 pm	0.907	36°
Broome, WA	09:16:16 am	10:46:33 am	12:19:53 pm	0.921	48°
Canberra, ACT	12:37:51 pm	01:58:53 pm	03:12:41 pm	0.961	29°
Carnarvon, WA	09:12:14 am	10:33:00 am	12:00:18 pm	0.708	36°
Charleville, QLD	12:24:48 pm	01:50:47 pm	03:08:35 pm	0.943	39°
Coffs Harbour, NSW	12:42:41 pm	02:03:16 pm	03:15:48 pm	0.910	31°
Cooper Pedy, SA	11:31:51 am	01:00:04 pm	02:23:10 pm	0.858	41°
Darwin, NT	10:59:06 am	12:32:18 pm	02:03:18 pm	0.895	57°
Eucla, WA	09:54:11 am	11:19:02 am	12:41:27 pm	0.724	38°
Geelong, VIC	12:31:44 pm	01:52:09 pm	03:06:25 pm	0.829	29°
Hobart, TS	12:40:09 pm	01:56:26 pm	03:07:12 pm	0.781	23°
Kalgoorlie, WA	09:38:05 am	11:00:09 am	12:23:31 pm	0.657	37°
Karratha, WA	09:10:11 am	10:35:40 am	12:07:10 pm	0.814	42°
Launceston, TAS	12:38:53 pm	01:56:20 pm	03:07:59 pm	0.806	24°
Mackay, QLD	12:28:18 pm	01:51:59 pm	03:07:11 pm	0.764	42°
Melbourne, VIC	12:32:30 pm	01:53:03 pm	03:07:20 pm	0.844	29°
Meekatharra, WA	09:24:13 am	10:47:36 am	12:14:38 pm	0.706	39°
Mildura, NSW	12:23:49 pm	01:47:33 pm	03:04:46 pm	0.872	33°
Moomba, SA	11:42:40 am	01:10:46 pm	02:31:52 pm	0.966	40°
Mount Isa, QLD	12:02:04 pm	01:33:03 pm	02:56:50 pm	0.938	48°
Newcastle, NSW	12:41:18 pm	02:02:06 pm	03:15:12 pm	0.994	29°
Parkes, NSW	12:34:29 pm	01:57:00 pm	03:11:59 pm	0.993	31°
Perth, WA	09:30:28 am	10:47:39 am	12:08:31 pm	0.591	33°
Rockhampton, QLD	12:33:05 pm	01:55:52 pm	03:10:12 pm	0.792	39°
Roxby Downs, SA	12:08:40 pm	01:35:37 pm	02:56:53 pm	0.856	38°
Southport, QLD	12:42:14 pm	02:02:47 pm	03:15:07 pm	0.849	33°
Toowoomba, QLD	12:38:46 pm	02:00:30 pm	03:13:57 pm	0.866	34°
Townsville, QLD	12:20:32 pm	01:46:06 pm	03:03:19 pm	0.765	45°
Yulara, NT	11:17:38 am	12:48:04 pm	02:14:56 pm	0.877	45°
Wagga Wagga, NSW	12:34:29 pm	01:56:15 pm	03:10:54 pm	0.937	30°
Whyalla, SA	11:43:30 am	01:08:37 pm	02:28:07 pm	0.824	36°