

I. - Annular Eclipse of the Sun

1969 March 18



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$\Delta T = +39^s.4$
Globe centred on E 114°5' and S 11°6'

| Circumstances | Time (UT) | Longitude | Latitude |
|--|-----------|------------|-----------|
| | h m | ° / | ° / |
| ⊕ Eclipse begins; first contact with Earth | 2 06.4 | E 59 35.0 | S 39 19.4 |
| Beginning of northern limit of penumbra | 3 08.1 | E 44 47.3 | S 12 50.6 |
| Beginning of northern limit of umbra | 3 08.4 | E 43 54.7 | S 44 41.0 |
| Beginning of centre line; central eclipse begins | 3 08.6 | E 43 51.5 | S 44 59.9 |
| Beginning of southern limit of umbra | 3 08.8 | E 43 48.2 | S 45 18.8 |
| Beginning of southern limit of penumbra | 3 52.7 | E 22 46.1 | S 84 37.3 |
| Central eclipse at local apparent noon | 4 37.7 | E 112 37.5 | S 19 11.2 |
| End of southern limit of penumbra | 5 56.5 | W 176 34.9 | S 26 26.2 |
| End of southern limit of umbra | 6 40.0 | E 171 49.6 | N 13 09.3 |
| End of centre line; central eclipse ends | 6 40.1 | E 171 46.5 | N 13 29.7 |
| End of northern limit of penumbra | 6 40.2 | E 170 58.6 | N 45 40.5 |
| End of northern limit of umbra | 6 40.3 | E 171 43.4 | N 13 50.2 |
| ⊙ Eclipse ends; last contact with Earth | 7 42.3 | E 156 07.0 | N 19 11.2 |