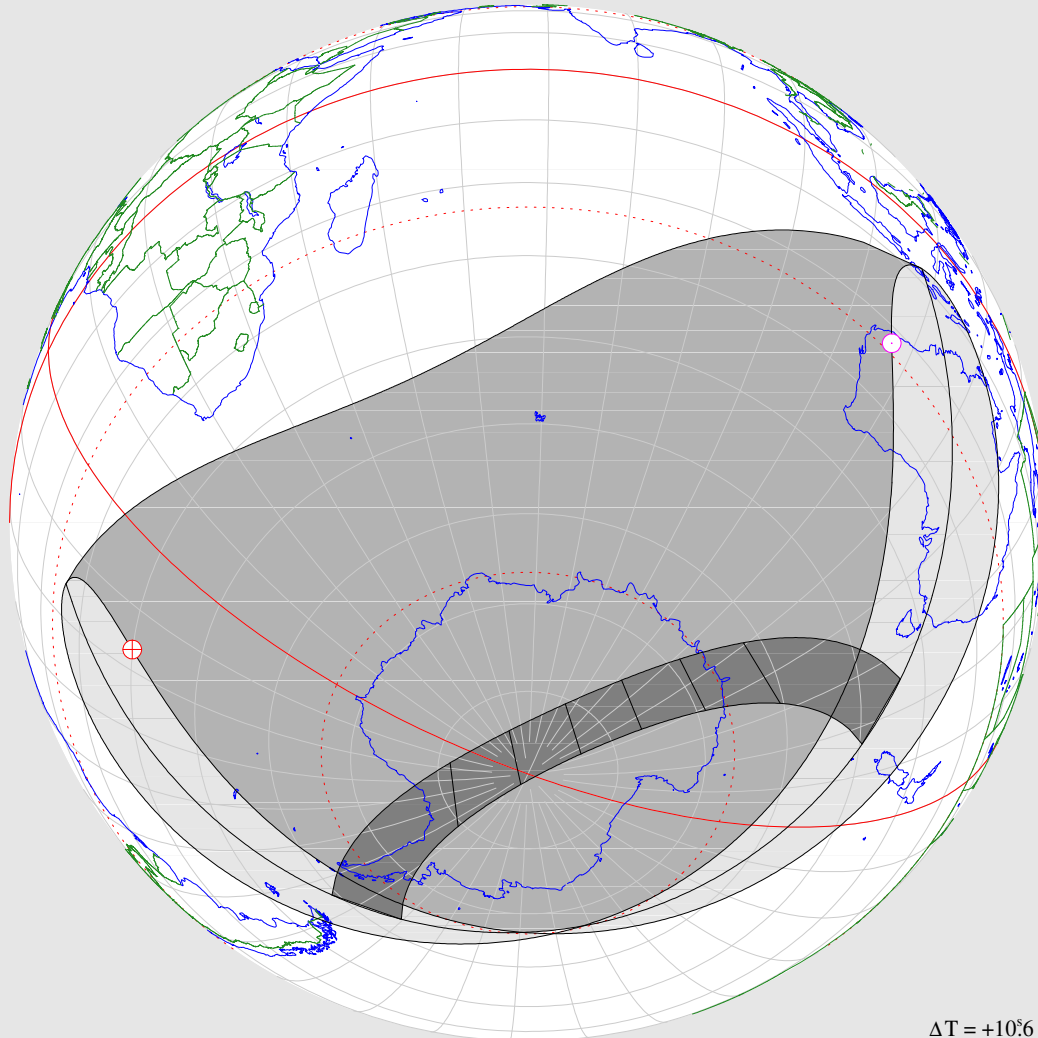


I. - Annular Eclipse of the Sun

1824 January 01



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$\Delta T = +10^s6$
Globe centred on E 67°7' and S 61°0'

| Circumstances | Time (UT) | Longitude | Latitude |
|--|-----------|------------|-----------|
| | h m | ° / | ° / |
| ⊕ Eclipse begins; first contact with Earth | 5 46.5 | W 16 38.4 | S 39 54.3 |
| Beginning of northern limit of penumbra | 6 16.2 | W 15 15.9 | S 26 07.8 |
| Beginning of northern limit of umbra | 7 19.6 | W 64 41.6 | S 59 12.1 |
| Beginning of centre line; central eclipse begins | 7 25.7 | W 71 20.2 | S 61 10.5 |
| Beginning of southern limit of umbra | 7 32.7 | W 79 35.4 | S 63 07.8 |
| Central eclipse at local apparent noon | 8 02.5 | E 60 14.6 | S 87 06.1 |
| End of southern limit of umbra | 9 09.4 | E 163 34.7 | S 49 35.8 |
| End of centre line; central eclipse ends | 9 16.4 | E 158 38.1 | S 46 39.7 |
| End of northern limit of umbra | 9 22.5 | E 154 32.2 | S 43 58.7 |
| End of northern limit of penumbra | 10 25.8 | E 117 47.8 | S 7 49.7 |
| ⊙ Eclipse ends; last contact with Earth | 10 55.6 | E 116 57.4 | S 22 07.5 |