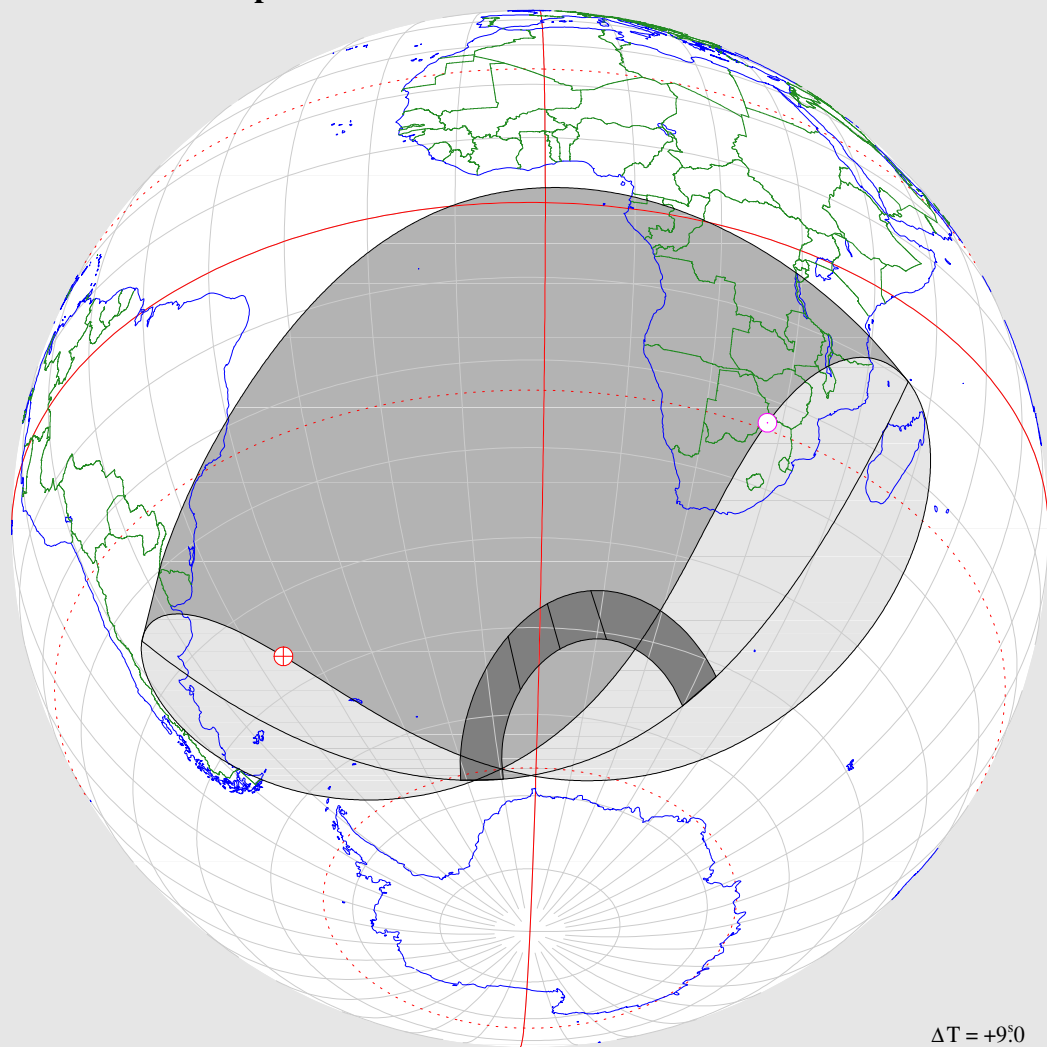


## II. - Annular Eclipse of the Sun

1704 June 02



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$\Delta T = +9^s 0$   
Globe centred on W 17° and S 39°0

| Circumstances                                    | Time (UT) |      | Longitude |      | Latitude |      |
|--|-----------|------|-----------|------|----------|------|
|  | h         | m    | °         | '    | °        | '    |
| ⊕ Eclipse begins; first contact with Earth       | 10        | 39.4 | W 45      | 11.9 | S 46     | 17.5 |
| Beginning of northern limit of penumbra          | 11        | 28.5 | W 66      | 36.6 | S 34     | 14.5 |
| Beginning of northern limit of umbra             | 12        | 24.6 | W 21      | 45.2 | S 67     | 03.3 |
| Beginning of centre line; central eclipse begins | 12        | 29.6 | W 16      | 16.5 | S 67     | 32.8 |
| Beginning of southern limit of umbra             | 12        | 35.7 | W 9       | 32.3 | S 67     | 45.2 |
| Central eclipse at local apparent noon           | 12        | 36.1 | W 9       | 41.3 | S 57     | 59.9 |
| End of southern limit of umbra                   | 13        | 29.4 | E 29      | 54.1 | S 55     | 50.4 |
| End of centre line; central eclipse ends         | 13        | 35.6 | E 31      | 57.5 | S 53     | 26.8 |
| End of northern limit of umbra                   | 13        | 40.6 | E 33      | 24.9 | S 51     | 21.6 |
| End of northern limit of penumbra                | 14        | 36.6 | E 46      | 07.4 | S 9      | 51.4 |
| ⊙ Eclipse ends; last contact with Earth          | 15        | 25.7 | E 28      | 04.5 | S 22     | 41.0 |