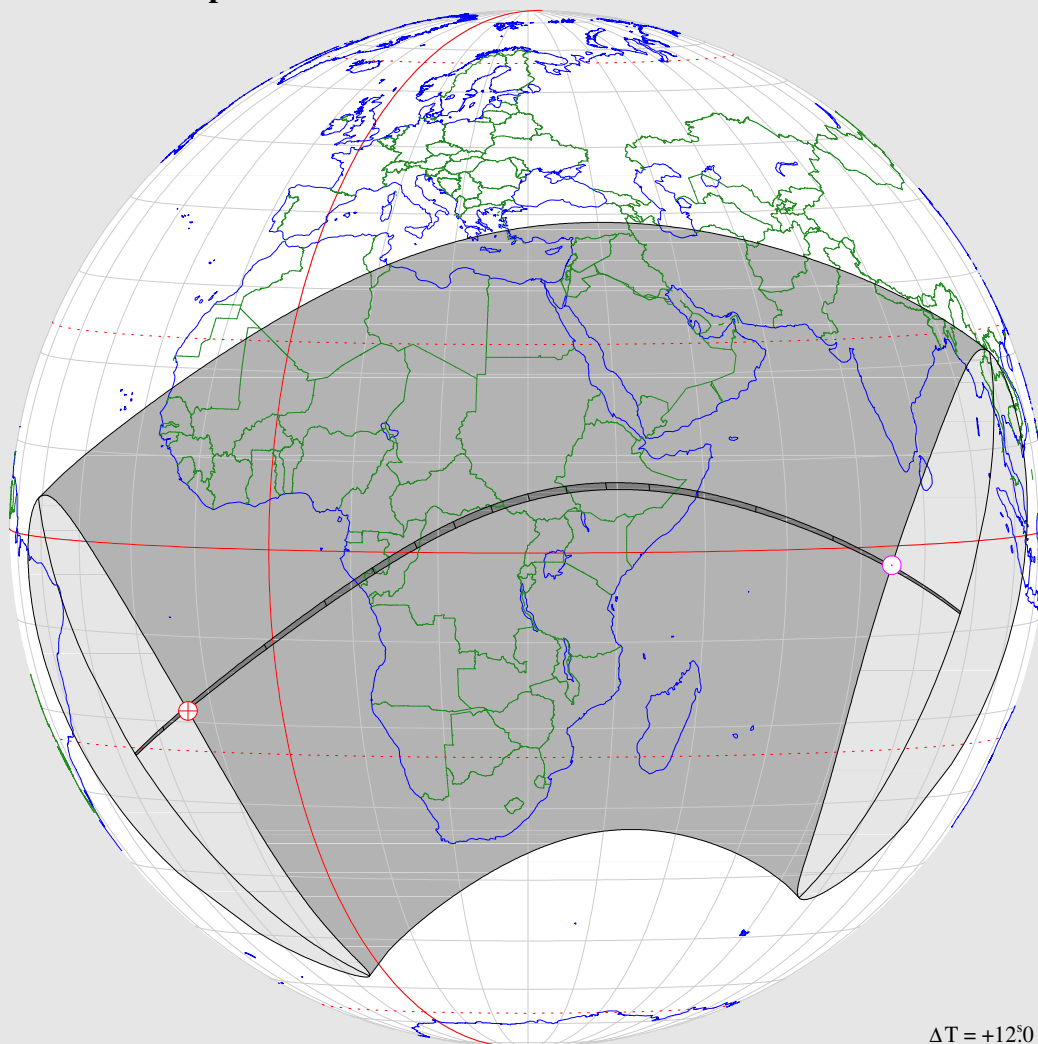


## II. - Total Eclipse of the Sun

1741 June 13



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$\Delta T = +12^m 0^s$   
Globe centred on E 30°0' and N 2°7'

| Circumstances                                    | Time (UT)                 | Longitude      | Latitude       |
|--|---------------------------|----------------|----------------|
|  | <sup>h</sup> <sup>m</sup> | <sup>o</sup> / | <sup>o</sup> / |
| ⊕ Eclipse begins; first contact with Earth       | 7 28.0                    | W 13 48.5      | S 18 38.7      |
| Beginning of centre line; central eclipse begins | 8 29.0                    | W 26 10.8      | S 24 20.3      |
| Beginning of northern limit of umbra             | 8 28.9                    | W 26 14.4      | S 24 12.4      |
| Beginning of southern limit of umbra             | 8 29.0                    | W 26 07.1      | S 24 28.2      |
| Beginning of northern limit of penumbra          | 8 37.0                    | W 41 13.2      | N 4 15.0       |
| Beginning of southern limit of penumbra          | 9 07.2                    | W 4 37.0       | S 57 27.5      |
| Central eclipse at local apparent noon           | 10 07.4                   | E 28 00.3      | N 5 33.3       |
| End of southern limit of penumbra                | 11 18.2                   | E 76 10.9      | S 43 33.8      |
| End of northern limit of penumbra                | 11 48.1                   | E 102 12.1     | N 20 45.9      |
| End of southern limit of umbra                   | 11 56.2                   | E 87 19.8      | S 8 00.8       |
| End of northern limit of umbra                   | 11 56.3                   | E 87 24.9      | S 7 47.3       |
| End of centre line; central eclipse ends         | 11 56.3                   | E 87 22.3      | S 7 54.0       |
| ⊙ Eclipse ends; last contact with Earth          | 12 57.3                   | E 74 37.3      | S 2 07.3       |