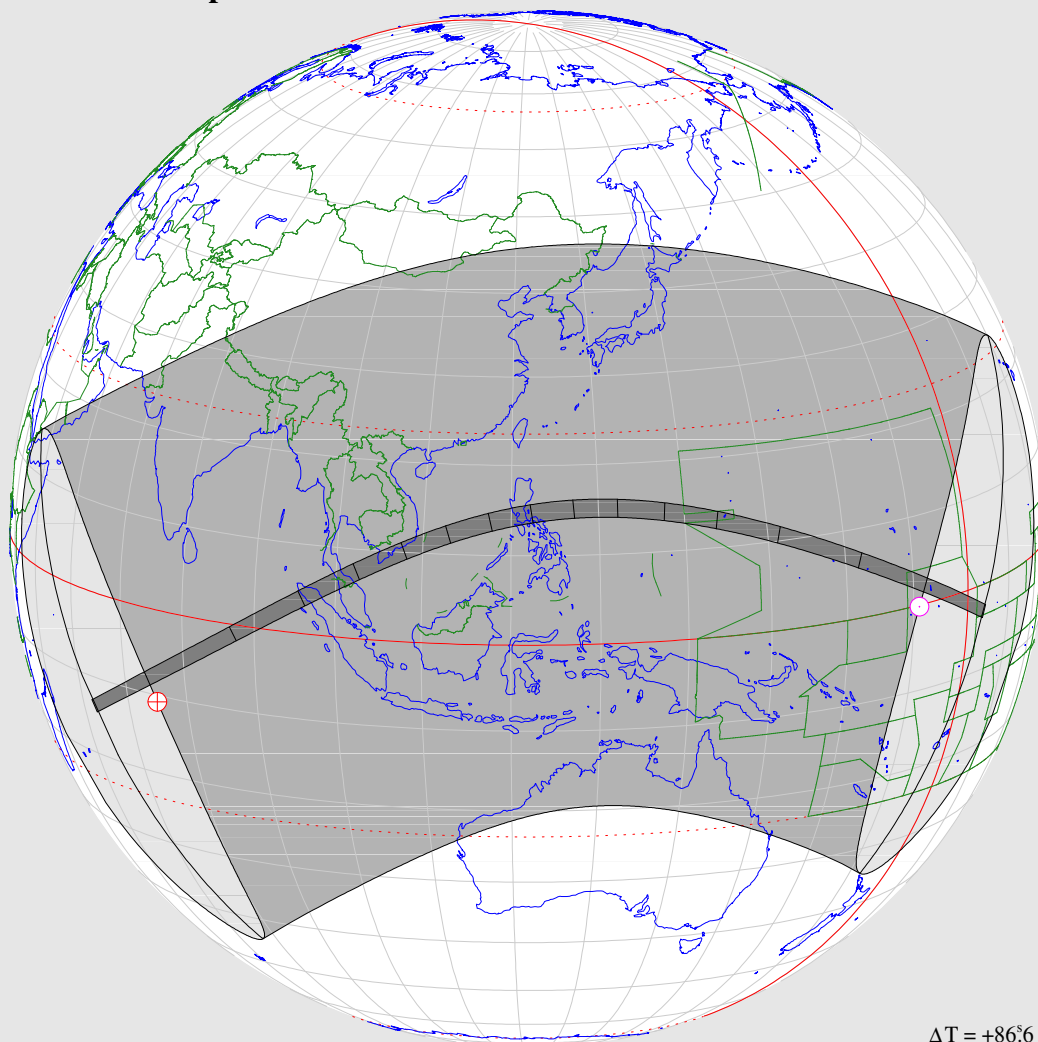


II. - Total Eclipse of the Sun

1629 June 21



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ΔT = +86.6
Globe centred on E 121°9' and N 13°0'

| Circumstances | Time (UT) | | Longitude | | Latitude | |
|--|-----------|------|-----------|------|----------|------|
| | h | m | ° | ' | ° | ' |
| ⊕ Eclipse begins; first contact with Earth | 1 | 19.1 | E 75 | 11.4 | S 10 | 47.7 |
| Beginning of centre line; central eclipse begins | 2 | 15.1 | E 62 | 30.5 | S 13 | 42.0 |
| Beginning of northern limit of umbra | 2 | 15.2 | E 62 | 11.5 | S 13 | 02.0 |
| Beginning of southern limit of umbra | 2 | 15.1 | E 62 | 49.4 | S 14 | 22.0 |
| Beginning of northern limit of penumbra | 2 | 29.8 | E 46 | 16.0 | N 14 | 36.8 |
| Beginning of southern limit of penumbra | 2 | 34.0 | E 76 | 34.7 | S 44 | 03.6 |
| Central eclipse at local apparent noon | 3 | 56.3 | E 121 | 08.7 | N 14 | 26.3 |
| End of southern limit of penumbra | 5 | 22.0 | E 172 | 35.0 | S 34 | 08.8 |
| End of northern limit of penumbra | 5 | 26.0 | W 159 | 33.7 | N 25 | 04.9 |
| End of southern limit of umbra | 5 | 40.8 | W 176 | 37.3 | S 3 | 47.0 |
| End of northern limit of umbra | 5 | 40.7 | W 176 | 00.6 | S 2 | 24.9 |
| End of centre line; central eclipse ends | 5 | 40.7 | W 176 | 19.1 | S 3 | 05.9 |
| ⊙ Eclipse ends; last contact with Earth | 6 | 36.7 | E 170 | 57.3 | S 0 | 10.9 |