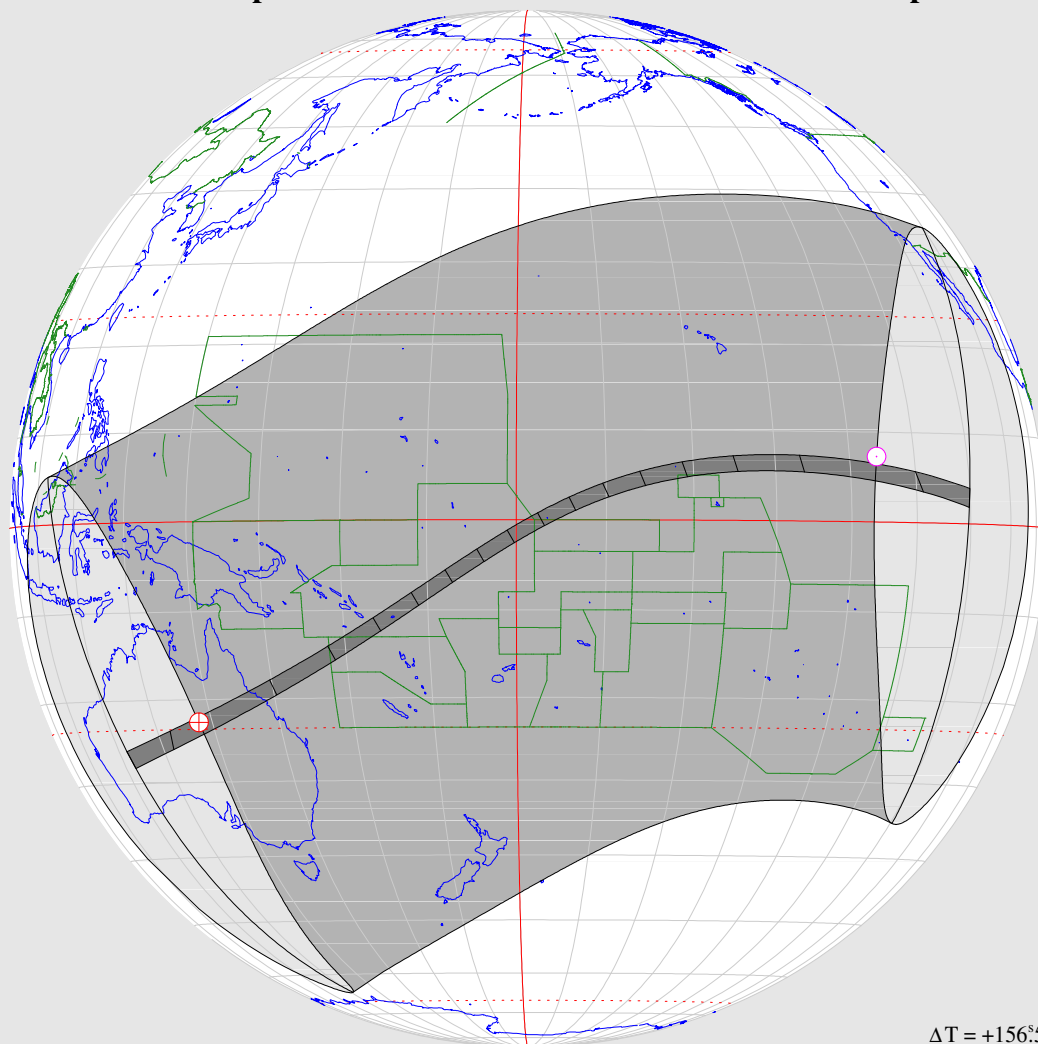


## II. - Annular Eclipse of the Sun

1586 April 18-19



$\Delta T = +156^s.5$

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Globe centred on W 178°7 and S 1°0

| Circumstances                                    | Time (UT)    |              | Longitude    |              | Latitude     |              |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
|  | <sup>h</sup> | <sup>m</sup> | <sup>o</sup> | <sup>'</sup> | <sup>o</sup> | <sup>'</sup> |
| ⊕ Eclipse begins; first contact with Earth       | 21           | 06.2         | E 137        | 50.7         | S 22         | 40.0         |
| Beginning of northern limit of umbra             | 22           | 13.0         | E 121        | 55.1         | S 25         | 59.6         |
| Beginning of centre line; central eclipse begins | 22           | 13.3         | E 122        | 06.6         | S 27         | 02.4         |
| Beginning of southern limit of umbra             | 22           | 13.6         | E 122        | 18.0         | S 28         | 05.3         |
| Beginning of northern limit of penumbra          | 22           | 23.6         | E 112        | 50.9         | N 5          | 17.2         |
| Beginning of southern limit of penumbra          | 22           | 49.8         | E 130        | 46.1         | S 64         | 04.7         |
| Central eclipse at local apparent noon           | 0            | 00.8         | E 179        | 34.3         | S 1          | 44.8         |
| End of southern limit of penumbra                | 1            | 25.6         | W 119        | 30.6         | S 35         | 10.4         |
| End of northern limit of penumbra                | 1            | 51.2         | W 110        | 12.2         | N 35         | 06.2         |
| End of southern limit of umbra                   | 2            | 01.5         | W 120        | 16.0         | N 1          | 50.1         |
| End of centre line; central eclipse ends         | 2            | 01.8         | W 120        | 07.9         | N 2          | 52.4         |
| End of northern limit of umbra                   | 2            | 02.0         | W 119        | 59.3         | N 3          | 54.5         |
| ⊙ Eclipse ends; last contact with Earth          | 3            | 08.8         | W 136        | 01.0         | N 7          | 15.9         |