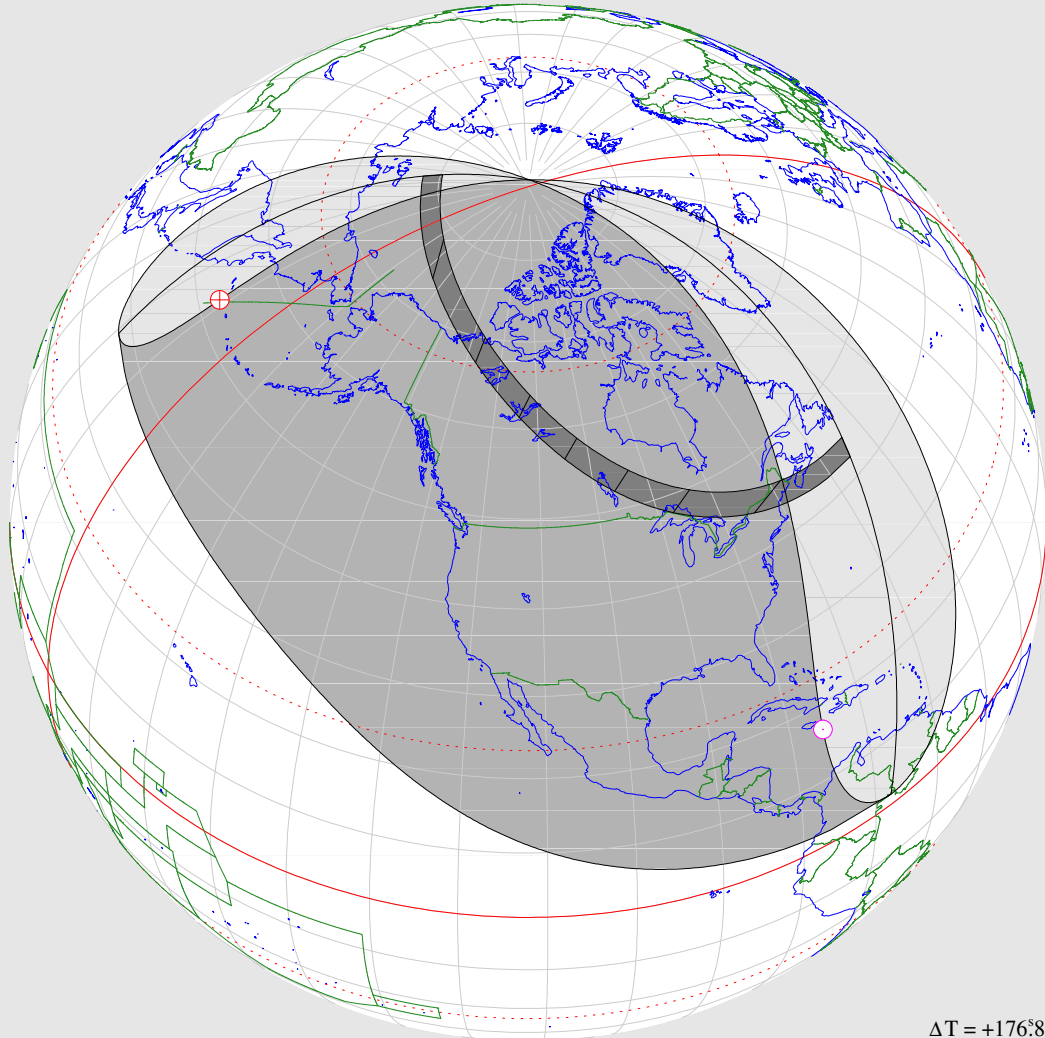


IV. - Total Eclipse of the Sun

1569 September 10



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$\Delta T = +176^s.8$
Globe centred on W 112°2 and N 49°6

| Circumstances | Time (UT) | | Longitude | | Latitude | |
|--|-----------|------|-----------|------|----------|------|
| | h | m | ° | ' | ° | ' |
| ⊕ Eclipse begins; first contact with Earth | 18 | 33.6 | E 168 | 32.8 | N 52 | 44.9 |
| Beginning of southern limit of penumbra | 19 | 06.7 | E 160 | 50.3 | N 37 | 44.8 |
| Beginning of southern limit of umbra | 19 | 53.5 | E 145 | 11.9 | N 78 | 02.7 |
| Beginning of centre line; central eclipse begins | 19 | 55.2 | E 144 | 18.1 | N 79 | 06.4 |
| Beginning of northern limit of umbra | 19 | 56.9 | E 143 | 15.7 | N 80 | 12.3 |
| Central eclipse at local apparent noon | 20 | 15.9 | W 125 | 40.6 | N 68 | 06.1 |
| End of northern limit of umbra | 21 | 34.0 | W 54 | 15.8 | N 44 | 22.2 |
| End of centre line; central eclipse ends | 21 | 35.8 | W 54 | 45.0 | N 43 | 15.0 |
| End of southern limit of umbra | 21 | 37.5 | W 55 | 12.8 | N 42 | 10.0 |
| End of southern limit of penumbra | 22 | 24.0 | W 67 | 41.9 | N 1 | 43.6 |
| ○ Eclipse ends; last contact with Earth | 22 | 57.1 | W 75 | 43.5 | N 16 | 47.8 |