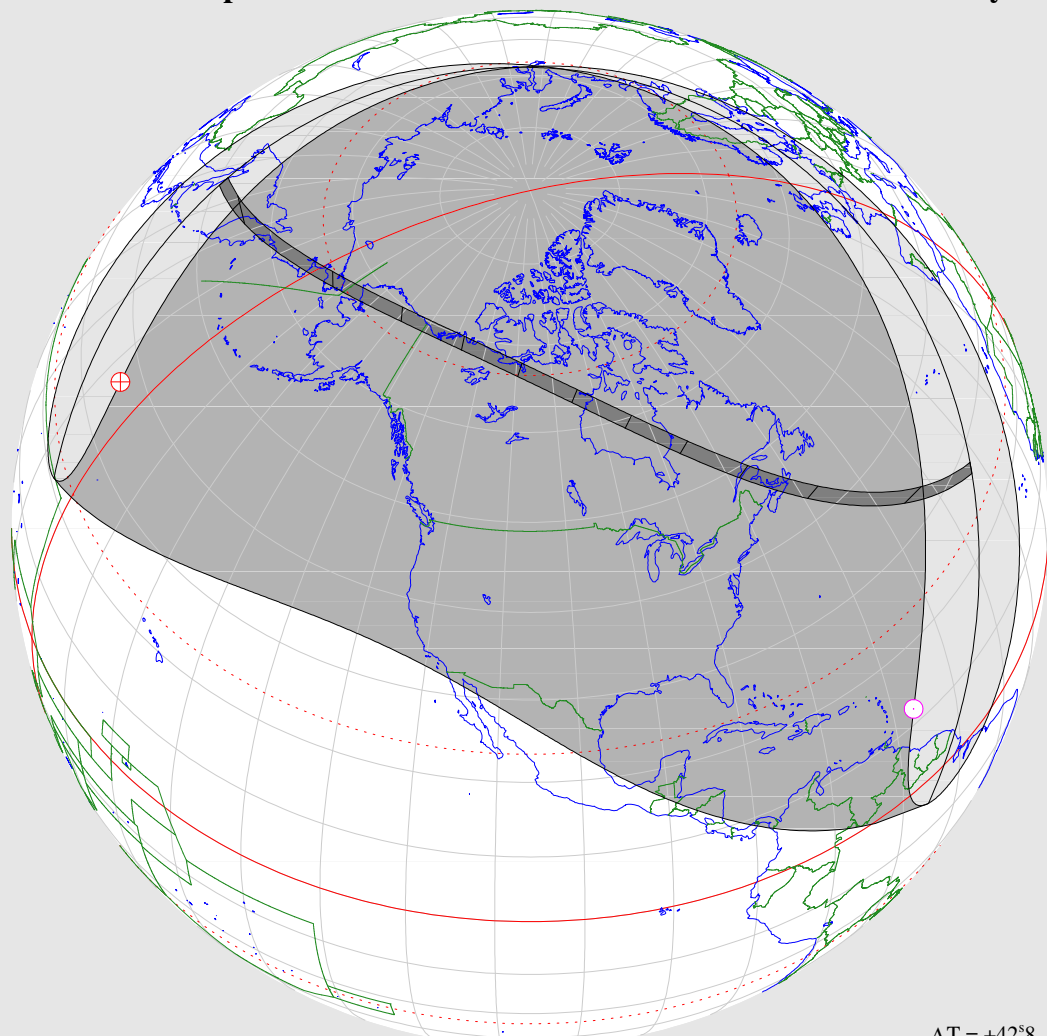


III. - Total Eclipse of the Sun

1972 July 10



$\Delta T = +42^s.8$

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Globe centred on W 106°1 and N 49°3

| Circumstances | Time (UT) | | Longitude | | Latitude | |
|--|-----------|------|-----------|------|----------|------|
| | h | m | ° | ' | ° | ' |
| ⊕ Eclipse begins; first contact with Earth | 17 | 19.1 | E 173 | 56.5 | N 36 | 38.1 |
| Beginning of southern limit of penumbra | 17 | 50.8 | E 174 | 45.0 | N 20 | 45.3 |
| Beginning of southern limit of umbra | 18 | 27.9 | E 144 | 39.0 | N 50 | 36.1 |
| Beginning of centre line; central eclipse begins | 18 | 28.7 | E 143 | 55.8 | N 51 | 02.7 |
| Beginning of northern limit of umbra | 18 | 29.5 | E 143 | 11.6 | N 51 | 29.3 |
| Central eclipse at local apparent noon | 19 | 28.4 | W 110 | 45.2 | N 67 | 24.2 |
| End of northern limit of umbra | 21 | 02.6 | W 31 | 43.4 | N 28 | 09.9 |
| End of centre line; central eclipse ends | 21 | 03.3 | W 32 | 10.5 | N 27 | 40.8 |
| End of southern limit of umbra | 21 | 04.1 | W 32 | 37.2 | N 27 | 11.9 |
| End of southern limit of penumbra | 21 | 41.1 | W 55 | 40.0 | S 4 | 15.2 |
| ⊙ Eclipse ends; last contact with Earth | 22 | 13.0 | W 56 | 54.2 | N 12 | 05.7 |