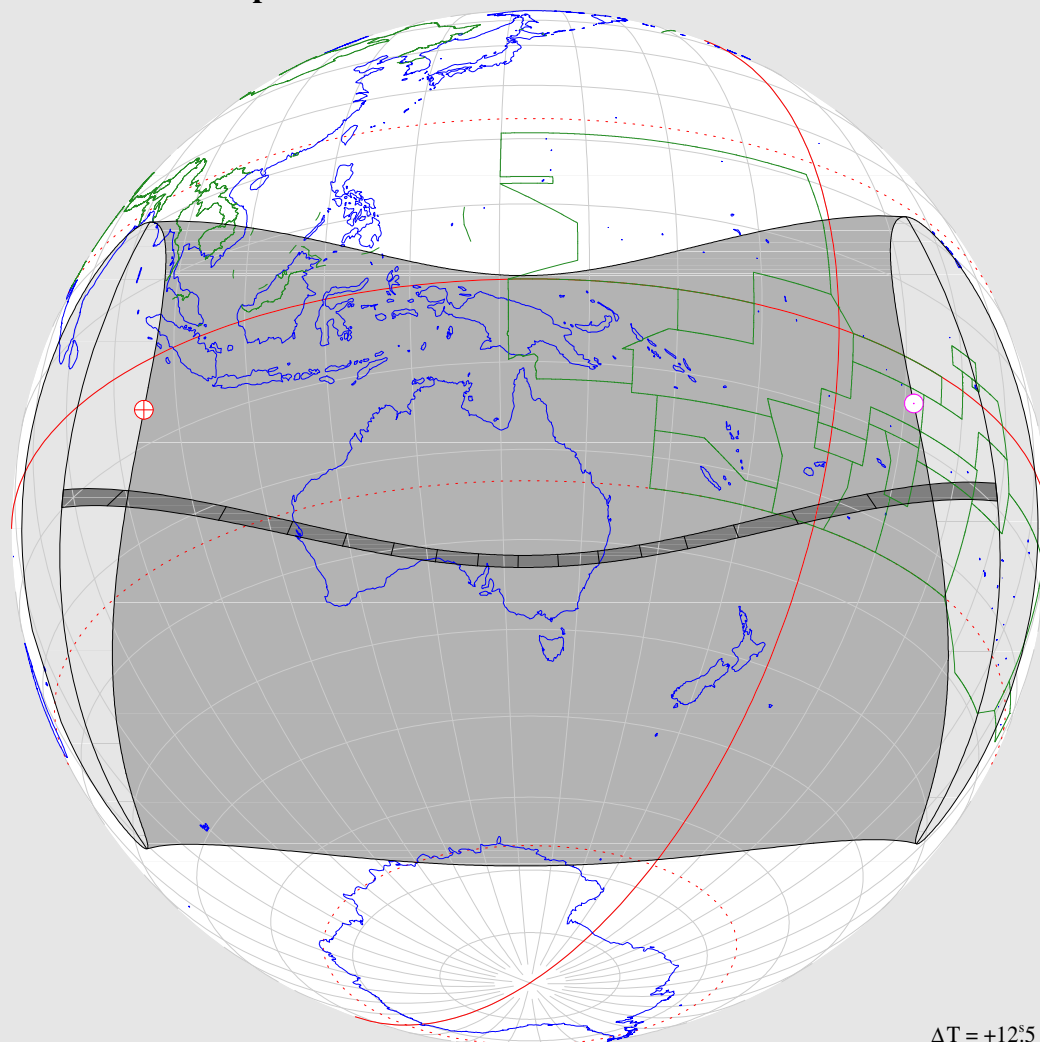


# V. - Annular Eclipse of the Sun

## 1806 December 09-10



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$\Delta T = +12^s.5$   
Globe centred on E 143°4' and S 28°8'

| Circumstances                                    | Time (UT) | Longitude  | Latitude  |
|--|-----------|------------|-----------|
|  | h m       | ° /        | ° /       |
| ⊕ Eclipse begins; first contact with Earth       | 23 23.2   | E 94 55.7  | S 5 47.5  |
| Beginning of northern limit of penumbra          | 0 22.9    | E 91 43.0  | N20 52.2  |
| Beginning of northern limit of umbra             | 0 26.9    | E 78 00.6  | S 8 06.6  |
| Beginning of centre line; central eclipse begins | 0 27.5    | E 77 29.9  | S 8 56.6  |
| Beginning of southern limit of umbra             | 0 28.1    | E 76 58.6  | S 9 46.8  |
| Beginning of southern limit of penumbra          | 1 08.5    | E 48 38.5  | S42 08.2  |
| Central eclipse at local apparent noon           | 2 19.3    | E 143 21.3 | S 32 25.1 |
| End of southern limit of penumbra                | 3 30.4    | W122 24.9  | S41 36.0  |
| End of southern limit of umbra                   | 4 10.7    | W150 34.1  | S 9 12.2  |
| End of centre line; central eclipse ends         | 4 11.4    | W151 06.1  | S 8 20.6  |
| End of northern limit of umbra                   | 4 12.0    | W151 37.6  | S 7 29.2  |
| End of northern limit of penumbra                | 4 16.0    | W165 22.6  | N21 28.9  |
| ⊙ Eclipse ends; last contact with Earth          | 5 15.8    | W168 33.3  | S 5 11.3  |