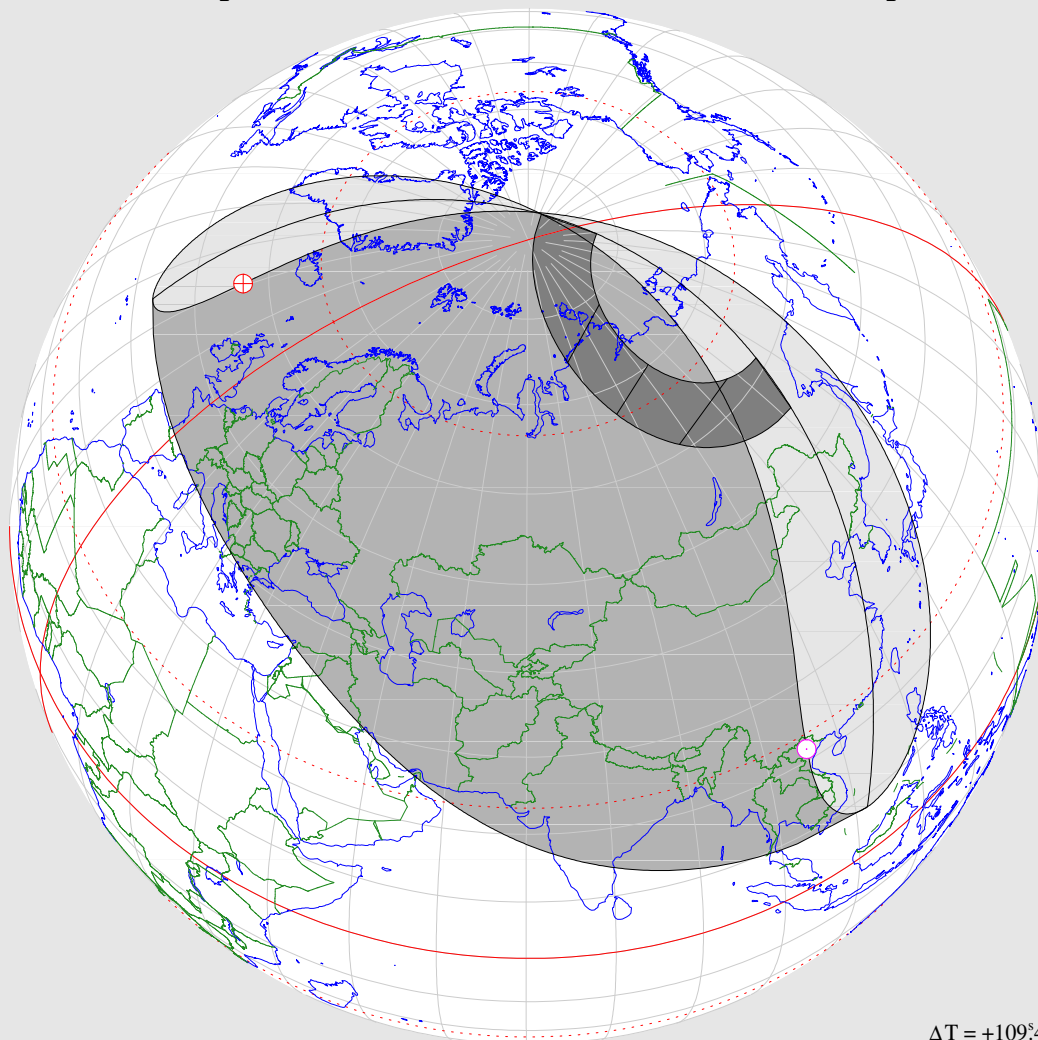


# IV. - Total Eclipse of the Sun

2072 September 12



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$\Delta T = +109^s.4$   
Globe centred on E 70°2 and N 56°4

| Circumstances                                    | Time (UT)                 | Longitude      | Latitude       |
|--|---------------------------|----------------|----------------|
|  | <sup>h</sup> <sup>m</sup> | <sup>o</sup> / | <sup>o</sup> / |
| ⊕ Eclipse begins; first contact with Earth       | 6 55.3                    | W 20 37.1      | N 56 39.6      |
| Beginning of southern limit of penumbra          | 7 23.4                    | W 25 25.6      | N 43 20.1      |
| Beginning of southern limit of umbra             | 8 27.1                    | W 132 57.6     | N 86 12.2      |
| Beginning of centre line; central eclipse begins | 8 32.0                    | W 169 04.8     | N 85 03.9      |
| Beginning of northern limit of umbra             | 8 38.2                    | E 168 44.0     | N 82 18.6      |
| End of northern limit of umbra                   | 9 17.1                    | E 136 37.8     | N 61 18.1      |
| End of centre line; central eclipse ends         | 9 23.4                    | E 134 10.4     | N 57 48.2      |
| End of southern limit of umbra                   | 9 28.3                    | E 132 20.2     | N 54 59.4      |
| End of southern limit of penumbra                | 10 31.8                   | E 111 35.6     | N 8 05.6       |
| ⊙ Eclipse ends; last contact with Earth          | 10 59.9                   | E 105 30.1     | N 21 32.3      |