

## II. - Annular Eclipse of the Sun

1622 May 10



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ΔT = +113.2  
Globe centred on W 28°4' and N 12°6'

| Circumstances                                    | Time (UT) | Longitude  | Latitude  |
|--|-----------|------------|-----------|
|  | h m       | ° /        | ° /       |
| ⊕ Eclipse begins; first contact with Earth       | 10 50.2   | W 69 37.7  | S 12 14.2 |
| Beginning of southern limit of umbra             | 11 56.5   | W 85 21.7  | S 14 41.8 |
| Beginning of centre line; central eclipse begins | 11 56.6   | W 85 43.8  | S 13 43.5 |
| Beginning of northern limit of umbra             | 11 56.8   | W 86 06.1  | S 12 45.3 |
| Beginning of southern limit of penumbra          | 12 14.4   | W 74 58.0  | S 46 34.8 |
| Beginning of northern limit of penumbra          | 12 19.2   | W 101 49.8 | N 18 09.9 |
| Central eclipse at local apparent noon           | 13 52.1   | W 29 03.8  | N 13 21.2 |
| End of northern limit of penumbra                | 15 28.0   | E 50 50.3  | N 36 55.6 |
| End of southern limit of penumbra                | 15 33.2   | E 25 51.0  | S 28 06.9 |
| End of northern limit of umbra                   | 15 50.5   | E 33 21.0  | N 6 19.1  |
| End of centre line; central eclipse ends         | 15 50.7   | E 32 59.7  | N 5 21.6  |
| End of southern limit of umbra                   | 15 50.9   | E 32 38.8  | N 4 24.0  |
| ⊙ Eclipse ends; last contact with Earth          | 16 57.0   | E 16 53.5  | N 6 51.0  |