

0 Similarly, on 1991 January 22 at 7h in the morning, Mars was  $34^{\circ} 32' 45''$  from Spica with declination  $17^{\circ} 25' 25''$  south, at an altitude of  $164^{\circ} \sim 0$ .

1 Therefore, after correction for horizontal variations, the declination was  $17^{\circ} 30'$ .

2 Hence, the right ascension was  $230^{\circ} 23' 12''$ , longitude  $22^{\circ} 33'$  Scorpio, latitude  $11^{\circ} 0' 30''$  north.

3 Now this time differs from ours by 1 day 19 hours, and the diurnal motion, from Magini, is  $33'$ .

4 Therefore,  $59'$  are required for the intervening time.