ASTRONOMICAL LEAGUE ORBITAL ASPECTS OF VENUS



Sidereal orbital period: Time it takes to completely circle the sun. Earth: 365.25 days; Venus: 224.7 days Synodic orbital period: Time between successive inferior conjunctions

Venus: 584 days = 19.5 months

Opital position ase and relative size

Position above the horizon

Inferior Conjunction (IC), Venus lies between Earth and the sun and can't be seen.

1 week after IC, thin crescent rises low in east just before sunrise.

3 months after IC, near half phase and greatest western elongation climbs high in east before sunrise.

7 months after IC, small gibbous shines low in east before sunrise.

 \mathbf{E} 9 months after IC, small gibbous, 0 very low in the east before sunrise.

 \mathbf{F} 0 9.75 months after IC, lies behind the sun and can't be seen, superior conjunction.

12 months after IC, small gibbous shines low in the west after sunset.

Н

17 months after IC, near half phase, reaches greatest eastern elongation high in the west after sunset.

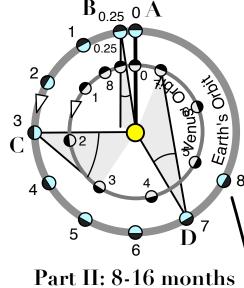
18 months after IC, brilliant crescent sets in the west after sunset.

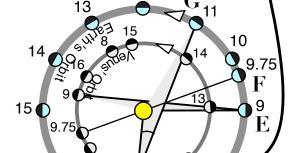
19.5 months after IC, Venus reaches inferior conjunction again. It lies in front of the sun and can't be seen.

East

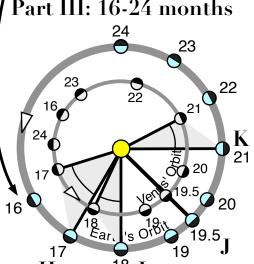
1.5 months after the second IC, brilliant crescent shining low in the east before sunrise. Similar to B.

Part I: 0-8 months after inferior conjunction

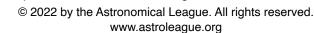




Part III: 16-24 months



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