

Table 3.B
Geocentric observations of planetary sidereal periods

Mercury
Short empiric sidereal interval (SESI): mean interval of 357.8 days \pm 1.7 days [S] Long empiric sidereal interval (LESI): mean interval of 406.7 days \pm 2.3 days [L] SESI and LESI repetitive pattern: $5S - L - 6S - L$ Approximate length of mean repetitive pattern: 4,749.2 days Tropical years associated with repetitive pattern: 13 years (about 4,748.14847 days) Sidereal periods associated with mean repetitive pattern: 54 periods (each about 87.94815 days) Modern mean sidereal period: 87.96939 days
Venus
Short empiric sidereal interval (SESI): mean interval of 295.6 days \pm 4.5 days [S] Long empiric sidereal interval (LESI): mean interval of 406.9 days \pm 4.5 days [L] SESI and LESI repetitive pattern: $2L - S - L - S - 2L - S$ Approximate length of mean repetitive pattern: 2,921.3 days Tropical years associated with repetitive pattern: 8 years (about 2,921.93752 days) Sidereal periods associated with mean repetitive pattern: 13 periods (each about 224.71538 days) Modern mean sidereal period: 224.70116 days
Mars
Short empiric sidereal interval (SESI): mean interval of 543.9 days \pm 4.6 days [S] Long empiric sidereal interval (LESI): mean interval of 706.3 days \pm 5.4 days [L] SESI and LESI repetitive pattern: $7L - S - 7L - S - 8L - S - 7L - S - 8L - S$ Approximate length of mean repetitive pattern: 28,852.6 days Tropical years associated with repetitive pattern: 79 years (about 28,854.13301 days) Sidereal periods associated with mean repetitive pattern: 42 periods (each about 686.96667 days) Modern mean sidereal period: 686.99576 days
Jupiter
Short empiric sidereal interval (SESI): mean interval of 4,127.8 days \pm 3.2 days [S] Long empiric sidereal interval (LESI): mean interval of 4,364.3 days \pm 3.5 days [L] SESI and LESI repetitive pattern: $6L - S$ Approximate length of mean repetitive pattern: 30,313.6 days Tropical years associated with repetitive pattern: 83 years (about 30,315.10177 days) Sidereal periods associated with mean repetitive pattern: 7 periods (each about 4,330.51429 days) Modern mean sidereal period: 4,332.84860 days
Saturn
Short empiric sidereal interval (SESI): mean interval of 10,637.2 days \pm 9.1 days [S] Long empiric sidereal interval (LESI): mean interval of 10,897.9 days \pm 9.5 days [L] SESI and LESI repetitive pattern: $L - 2S - L - S - L - S - L - S$ Approximate length of mean repetitive pattern: 96,777.6 days Tropical years associated with repetitive pattern: 265 years (about 96,789.18035 days) Sidereal periods associated with mean repetitive pattern: 9 periods (each about 10,753.06667 days) Modern mean sidereal period: 10,764.44 days

Adapted from Anthony F. Aveni, Harvey M. Bricker, and Victoria R. Bricker, "Seeking the Sidereal: Observable Planetary Stations and the Ancient Maya Record," *Journal for the History of Astronomy*, 34/2/115 (2003): 146-53, accessed at ui.adsabs.harvard.edu.