

TABLA DE EFEMÉRIDES SOLARES PARA PARA LATITUDES DE 4° á 10°

(Tomado del Centro de Cómputo de la Universidad Nacional de Ingeniería LIMA-PERU)

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| | LATITUD 4° | | | LATITUD 5° | | | LATITUD 6° | | | LATITUD 7° | | | LATITUD 8° | | | LATITUD 9° | | | LATITUD 10° | | | | | | |
|--|---|--------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|-------------|--------|--------|-----|--|--|--|
| | HORA | AZIMUT | ALTURA | HORA | AZIMUT | ALTURA | HORA | AZIMUT | ALTURA | HORA | AZIMUT | ALTURA | HORA | AZIMUT | ALTURA | HORA | AZIMUT | ALTURA | HORA | AZIMUT | ALTURA | | | | |
| HEMISFERIO SUR SOLSTICIO DE VERANO 22 de Diciembre | 5:53 | 66.5 | 0.0 | 5:51 | 66.5 | 0.0 | 5:49 | 66.4 | 0.0 | 5:47 | 66.4 | 0.0 | 05:46 | 66.8 | 0.0 | 5:44 | 66.3 | 0.0 | 5:42 | 66.2 | 0.0 | | | | HEMISFERIO NORTE SOLSTICIO DE VERANO 22 de Junio |
| | 6:00 | 66.6 | 1.6 | 6:00 | 66.6 | 2.0 | 6:00 | 66.7 | 2.4 | 6:00 | 66.7 | 2.8 | 06:00 | 66.3 | 3.2 | 6:00 | 66.8 | 3.6 | 6:00 | 66.9 | 4.0 | | | | |
| | 7:00 | 66.8 | 15.3 | 7:00 | 67.0 | 15.7 | 7:00 | 67.3 | 16.1 | 7:00 | 67.6 | 16.5 | 07:00 | 67.8 | 16.9 | 7:00 | 68.1 | 17.3 | 7:00 | 68.4 | 17.6 | | | | |
| | 8:00 | 65.3 | 29.0 | 8:00 | 65.8 | 29.4 | 8:00 | 66.4 | 29.9 | 8:00 | 66.9 | 30.3 | 08:00 | 67.4 | 30.6 | 8:00 | 68.0 | 31.0 | 8:00 | 68.5 | 31.4 | | | | |
| | 9:00 | 61.5 | 42.4 | 9:00 | 62.3 | 42.9 | 9:00 | 63.2 | 43.4 | 9:00 | 64.0 | 43.8 | 09:00 | 64.9 | 44.2 | 9:00 | 65.8 | 44.7 | 9:00 | 66.7 | 45.1 | | | | |
| | 10:00 | 53.3 | 55.1 | 10:00 | 54.5 | 55.7 | 10:00 | 55.7 | 56.3 | 10:00 | 57.0 | 56.8 | 10:00 | 58.3 | 57.4 | 10:00 | 59.6 | 57.9 | 10:00 | 61.0 | 58.4 | | | | |
| | 11:00 | 35.3 | 65.7 | 11:00 | 36.6 | 66.6 | 11:00 | 38.1 | 67.4 | 11:00 | 39.6 | 68.1 | 11:00 | 41.3 | 68.9 | 11:00 | 43.0 | 69.6 | 11:00 | 44.9 | 70.4 | | | | |
| | 12:00 | 0.0 | 70.6 | 12:00 | 0.0 | 71.6 | 12:00 | 0.0 | 72.6 | 12:00 | 0.0 | 73.6 | 12:00 | 0.0 | 74.6 | 12:00 | 0.0 | 75.6 | 12:00 | 0.0 | 76.6 | | | | |
| | 13:00 | -35.3 | 65.7 | 13:00 | -36.6 | 66.6 | 13:00 | -38.1 | 67.4 | 13:00 | -39.6 | 68.1 | 13:00 | -41.3 | 68.9 | 13:00 | -43.0 | 69.6 | 13:00 | -44.9 | 70.4 | | | | |
| | 14:00 | -53.3 | 55.1 | 14:00 | -54.4 | 55.7 | 14:00 | -55.7 | 56.3 | 14:00 | -57.0 | 56.8 | 14:00 | -58.3 | 57.4 | 14:00 | -59.6 | 57.9 | 14:00 | -61.0 | 58.4 | | | | |
| | 15:00 | -61.5 | 42.4 | 15:00 | -62.3 | 42.9 | 15:00 | -63.2 | 43.4 | 15:00 | -64.0 | 43.8 | 15:00 | -64.9 | 44.2 | 15:00 | -65.8 | 44.7 | 15:00 | -66.7 | 45.1 | | | | |
| | 16:00 | -65.3 | 29.0 | 16:00 | -65.8 | 29.4 | 16:00 | -66.4 | 29.9 | 16:00 | -66.9 | 30.3 | 16:00 | -67.4 | 30.6 | 16:00 | -68.0 | 31.0 | 16:00 | -68.5 | 31.4 | | | | |
| | 17:00 | -66.8 | 15.3 | 17:00 | -67.0 | 15.7 | 17:00 | -67.3 | 16.1 | 17:00 | -67.6 | 16.5 | 17:00 | -67.8 | 16.9 | 17:00 | -68.1 | 17.3 | 17:00 | -68.4 | 17.6 | | | | |
| | 18:00 | -66.6 | 1.6 | 18:00 | -66.6 | 2.0 | 18:00 | -66.7 | 2.4 | 18:00 | -66.7 | 2.8 | 18:00 | -66.3 | 3.2 | 18:00 | -66.8 | 3.6 | 18:00 | -66.9 | 4.0 | | | | |
| 18:06 | -66.5 | 0.0 | 18:08 | -66.5 | 0.0 | 18:10 | -66.4 | 0.0 | 18:12 | -66.4 | 0.0 | 18:13 | -66.8 | 0.0 | 18:15 | -66.3 | 0.0 | 18:17 | -66.2 | 0.0 | | | | | |
| HEMISFERIO SUR EQUINOCCIO DE OTOÑO 21 de Marzo EQUINOCCIO DE PRIMAVERA 23 de Setiembre | 6:00 | 90.0 | 0.0 | 6:00 | 90.0 | 0.0 | 6:00 | 90.0 | 0.0 | 6:00 | 90.0 | 0.0 | 06:00 | 90.0 | 0.0 | 6:00 | 90.0 | 0.0 | 6:00 | 90.0 | 0.0 | | | | HEMISFERIO NORTE EQUINOCCIO DE OTOÑO 23 de Setiembre EQUINOCCIO DE PRIMAVERA 21 de Marzo |
| | 7:00 | 91.1 | 15.0 | 7:00 | 91.4 | 14.9 | 7:00 | 91.6 | 14.9 | 7:00 | 91.9 | 14.9 | 07:00 | 92.2 | 14.9 | 7:00 | 92.4 | 14.8 | 7:00 | 92.7 | 14.8 | | | | |
| | 8:00 | 92.3 | 29.9 | 8:00 | 92.9 | 29.9 | 8:00 | 93.5 | 29.8 | 8:00 | 94.0 | 29.8 | 08:00 | 94.6 | 29.7 | 8:00 | 95.2 | 29.6 | 8:00 | 95.7 | 29.5 | | | | |
| | 9:00 | 94.0 | 44.9 | 9:00 | 95.0 | 44.8 | 9:00 | 96.0 | 44.7 | 9:00 | 97.0 | 44.6 | 09:00 | 97.9 | 44.4 | 9:00 | 98.9 | 44.3 | 9:00 | 99.9 | 44.1 | | | | |
| | 10:00 | 96.9 | 59.8 | 10:00 | 98.6 | 59.6 | 10:00 | 100.3 | 59.5 | 10:00 | 101.9 | 59.3 | 10:00 | 103.6 | 59.0 | 10:00 | 105.2 | 58.8 | 10:00 | 106.8 | 58.5 | | | | |
| | 11:00 | 104.6 | 74.5 | 11:00 | 108.0 | 74.2 | 11:00 | 111.3 | 73.9 | 11:00 | 114.5 | 73.5 | 11:00 | 117.5 | 73.0 | 11:00 | 120.3 | 72.6 | 11:00 | 123.0 | 72.0 | | | | |
| | 12:00 | 180.0 | 86.0 | 12:00 | 180.0 | 85.0 | 12:00 | 180.0 | 84.0 | 12:00 | 180.0 | 83.0 | 12:00 | 180.0 | 82.0 | 12:00 | 180.0 | 81.0 | 12:00 | 180.0 | 80.0 | | | | |
| | 13:00 | -104.6 | 74.5 | 13:00 | -108.0 | 74.2 | 13:00 | -111.3 | 73.9 | 13:00 | -114.5 | 73.5 | 13:00 | -117.5 | 73.0 | 13:00 | -120.3 | 72.6 | 13:00 | -123.0 | 72.0 | | | | |
| | 14:00 | -96.9 | 59.8 | 14:00 | -98.6 | 59.6 | 14:00 | -100.3 | 59.5 | 14:00 | -101.9 | 59.3 | 14:00 | -103.6 | 59.0 | 14:00 | -105.2 | 58.8 | 14:00 | -106.8 | 58.5 | | | | |
| | 15:00 | -94.0 | 44.9 | 15:00 | -95.0 | 44.8 | 15:00 | -96.0 | 44.7 | 15:00 | -97.0 | 44.6 | 15:00 | -97.9 | 44.4 | 15:00 | -98.9 | 44.3 | 15:00 | -99.9 | 44.1 | | | | |
| | 16:00 | -92.3 | 29.9 | 16:00 | -92.9 | 29.9 | 16:00 | -93.5 | 29.8 | 16:00 | -94.0 | 29.8 | 16:00 | -94.6 | 29.7 | 16:00 | -95.2 | 29.6 | 16:00 | -95.7 | 29.5 | | | | |
| | 17:00 | -91.1 | 15.0 | 17:00 | -91.4 | 14.9 | 17:00 | -91.6 | 14.9 | 17:00 | -91.9 | 14.9 | 17:00 | -92.2 | 14.9 | 17:00 | -92.4 | 14.8 | 17:00 | -92.7 | 14.8 | | | | |
| | 18:00 | -90.0 | 0.0 | 18:00 | -90.0 | 0.0 | 18:00 | -90.0 | 0.0 | 18:00 | -90.0 | 0.0 | 18:00 | -90.0 | 0.0 | 18:00 | -90.0 | 0.0 | 18:00 | -90.0 | 0.0 | | | | |
| | HEMISFERIO SUR SOLSTICIO DE INVIERNO 22 de Junio | 6:06 | 113.5 | 0.0 | 6:08 | 113.6 | 0.0 | 6:10 | 113.6 | 0.0 | 6:12 | 113.7 | 0.0 | 06:13 | 113.7 | 0.0 | 6:15 | 113.8 | 0.0 | 6:17 | 113.9 | 0.0 | | | |
| 7:00 | | 115.0 | 12.1 | 7:00 | 115.2 | 11.6 | 7:00 | 115.4 | 11.2 | 7:00 | 115.6 | 11.2 | 07:00 | 115.8 | 10.4 | 7:00 | 115.9 | 9.9 | 7:00 | 116.1 | 9.5 | | | | |
| 8:00 | | 118.4 | 25.4 | 8:00 | 118.8 | 25.0 | 8:00 | 119.2 | 24.5 | 8:00 | 119.6 | 24.4 | 08:00 | 120.0 | 23.5 | 8:00 | 120.3 | 23.0 | 8:00 | 120.7 | 22.5 | | | | |
| 9:00 | | 124.3 | 38.3 | 9:00 | 124.9 | 37.7 | 9:00 | 125.6 | 37.1 | 9:00 | 126.2 | 37.1 | 09:00 | 126.8 | 35.6 | 9:00 | 127.3 | 35.3 | 9:00 | 127.9 | 34.7 | | | | |
| 10:00 | | 134.6 | 49.9 | 10:00 | 135.4 | 49.2 | 10:00 | 136.2 | 48.5 | 10:00 | 137.0 | 48.5 | 10:00 | 137.7 | 47.0 | 10:00 | 138.5 | 46.3 | 10:00 | 139.1 | 45.5 | | | | |
| 11:00 | | 152.7 | 58.6 | 11:00 | 153.4 | 58.0 | 11:00 | 154.1 | 54.1 | 11:00 | 154.7 | 57.1 | 11:00 | 155.4 | 55.3 | 11:00 | 156.0 | 54.4 | 11:00 | 156.5 | 53.5 | | | | |
| 12:00 | | 180.0 | 62.6 | 12:00 | 180.0 | 58.6 | 12:00 | 180.0 | 60.6 | 12:00 | 180.0 | 59.6 | 12:00 | 180.0 | 58.6 | 12:00 | 180.0 | 57.6 | 12:00 | 180.0 | 56.6 | | | | |
| 13:00 | | -152.7 | 58.6 | 13:00 | -153.4 | 58.0 | 13:00 | -154.1 | 54.1 | 13:00 | -154.7 | 57.1 | 13:00 | -155.4 | 55.3 | 13:00 | -156.0 | 54.4 | 13:00 | -156.5 | 53.5 | | | | |
| 14:00 | | -134.6 | 49.9 | 14:00 | -135.4 | 49.2 | 14:00 | -136.2 | 48.5 | 14:00 | -137.0 | 48.5 | 14:00 | -137.7 | 47.0 | 14:00 | -138.5 | 46.3 | 14:00 | -139.1 | 45.5 | | | | |
| 15:00 | | -124.3 | 38.3 | 15:00 | -124.9 | 37.7 | 15:00 | -125.6 | 37.1 | 15:00 | -126.2 | 37.1 | 15:00 | -126.8 | 35.6 | 15:00 | -127.3 | 35.3 | 15:00 | -127.9 | 34.7 | | | | |
| 16:00 | | -118.4 | 25.4 | 16:00 | -118.8 | 25.0 | 16:00 | -119.2 | 24.5 | 16:00 | -119.6 | 24.4 | 16:00 | -120.0 | 23.5 | 16:00 | -120.3 | 23.0 | 16:00 | -120.7 | 22.5 | | | | |
| 17:00 | | -115.0 | 12.1 | 17:00 | -115.2 | 11.6 | 17:00 | -115.4 | 11.2 | 17:00 | -115.6 | 11.2 | 17:00 | -115.8 | 10.4 | 17:00 | -115.9 | 9.9 | 17:00 | -116.1 | 9.5 | | | | |
| 17:53 | | -113.5 | 0.0 | 17:51 | -113.6 | 0.0 | 17:49 | -113.6 | 0.0 | 17:47 | -113.7 | 0.0 | 17:46 | -113.7 | 0.0 | 17:44 | -113.8 | 0.0 | 17:42 | -113.9 | 0.0 | | | | |