

NEPTUN

| M d 2012 | Wsch. | Kulm. | Zach. | A | α | δ | D | V | ΔI |
|-------------|-------------------|--------------------|-------|-------------|-------------------|----------|-----|-----|------------|
| | $\lambda=0^\circ$ | $\varphi=50^\circ$ | | | 0 ^h UT | | | | |
| | h m | h m | h m | \pm° | h m | ° ' " | " | m | ° |
| I 0 | 10 24 | 15 26 | 20 28 | 71 | 22 04.8 | - 12 23 | 2.2 | 7.9 | 50 |
| 8 | 9 53 | 14 55 | 19 58 | 71 | 22 05.7 | - 12 18 | 2.2 | 8.0 | 42 |
| 16 | 9 22 | 14 25 | 19 28 | 72 | 22 06.6 | - 12 13 | 2.2 | 8.0 | 34 |
| 24 | 8 51 | 13 55 | 18 58 | 72 | 22 07.7 | - 12 07 | 2.2 | 8.0 | 26 |
| II 1 | 8 20 | 13 24 | 18 28 | 72 | 22 08.8 | - 12 01 | 2.2 | 8.0 | 18 |
| 9 | 7 49 | 12 54 | 17 59 | 72 | 22 09.9 | - 11 55 | 2.2 | 8.0 | 11 |
| 17 | 7 18 | 12 24 | 17 29 | 72 | 22 11.0 | - 11 49 | 2.2 | 8.0 | 3 |
| 25 | 6 47 | 11 53 | 16 59 | 72 | 22 12.2 | - 11 42 | 2.2 | 8.0 | -5 |
| III 4 | 6 17 | 11 23 | 16 29 | 72 | 22 13.4 | - 11 36 | 2.2 | 8.0 | -13 |
| 12 | 5 46 | 10 53 | 15 59 | 73 | 22 14.5 | - 11 30 | 2.2 | 8.0 | -20 |
| 20 | 5 15 | 10 22 | 15 30 | 73 | 22 15.6 | - 11 24 | 2.2 | 8.0 | -28 |
| 28 | 4 44 | 9 52 | 15 00 | 73 | 22 16.6 | - 11 18 | 2.2 | 8.0 | -36 |
| IV 5 | 4 13 | 9 21 | 14 29 | 73 | 22 17.5 | - 11 13 | 2.2 | 8.0 | -43 |
| 13 | 3 42 | 8 51 | 13 59 | 73 | 22 18.4 | - 11 08 | 2.2 | 7.9 | -51 |
| 21 | 3 11 | 8 20 | 13 29 | 73 | 22 19.2 | - 11 04 | 2.2 | 7.9 | -59 |
| 29 | 2 40 | 7 49 | 12 58 | 73 | 22 19.8 | - 11 01 | 2.2 | 7.9 | -66 |
| V 7 | 2 09 | 7 18 | 12 28 | 73 | 22 20.3 | - 10 58 | 2.2 | 7.9 | -74 |
| 15 | 1 38 | 6 47 | 11 57 | 74 | 22 20.8 | - 10 56 | 2.2 | 7.9 | -82 |
| 23 | 1 06 | 6 16 | 11 26 | 74 | 22 21.0 | - 10 54 | 2.2 | 7.9 | -89 |
| 31 | 0 35 | 5 45 | 10 54 | 74 | 22 21.2 | - 10 54 | 2.2 | 7.9 | -97 |
| VI 8 | 0 03 | 5 13 | 10 23 | 74 | 22 21.2 | - 10 54 | 2.3 | 7.9 | -104 |
| 16 | 23 28 | 4 42 | 9 51 | 74 | 22 21.1 | - 10 55 | 2.3 | 7.9 | -112 |
| 24 | 22 56 | 4 10 | 9 20 | 74 | 22 20.9 | - 10 57 | 2.3 | 7.9 | -120 |
| VII 2 | 22 25 | 3 38 | 8 48 | 73 | 22 20.5 | - 10 59 | 2.3 | 7.9 | -128 |
| 10 | 21 53 | 3 06 | 8 15 | 73 | 22 20.0 | - 11 02 | 2.3 | 7.8 | -135 |
| 18 | 21 21 | 2 34 | 7 43 | 73 | 22 19.5 | - 11 05 | 2.3 | 7.8 | -143 |
| 26 | 20 50 | 2 02 | 7 11 | 73 | 22 18.8 | - 11 09 | 2.3 | 7.8 | -151 |
| VIII 3 | 20 18 | 1 30 | 6 38 | 73 | 22 18.1 | - 11 13 | 2.3 | 7.8 | -159 |
| 11 | 19 46 | 0 58 | 6 05 | 73 | 22 17.3 | - 11 18 | 2.3 | 7.8 | -167 |
| 19 | 19 14 | 0 25 | 5 33 | 73 | 22 16.5 | - 11 23 | 2.3 | 7.8 | -175 |
| 27 | 18 42 | 23 49 | 5 00 | 73 | 22 15.7 | - 11 27 | 2.3 | 7.8 | 177 |
| IX 4 | 18 10 | 23 17 | 4 27 | 73 | 22 14.8 | - 11 32 | 2.3 | 7.8 | 170 |
| 12 | 17 38 | 22 45 | 3 55 | 72 | 22 14.0 | - 11 37 | 2.3 | 7.8 | 162 |
| 20 | 17 07 | 22 12 | 3 22 | 72 | 22 13.3 | - 11 41 | 2.3 | 7.8 | 154 |
| 28 | 16 35 | 21 40 | 2 50 | 72 | 22 12.6 | - 11 45 | 2.3 | 7.8 | 146 |
| X 6 | 16 03 | 21 08 | 2 17 | 72 | 22 12.0 | - 11 48 | 2.3 | 7.8 | 138 |
| 14 | 15 31 | 20 36 | 1 45 | 72 | 22 11.5 | - 11 51 | 2.3 | 7.9 | 130 |
| 22 | 15 00 | 20 04 | 1 13 | 72 | 22 11.1 | - 11 53 | 2.3 | 7.9 | 121 |
| 30 | 14 28 | 19 33 | 0 41 | 72 | 22 10.8 | - 11 55 | 2.3 | 7.9 | 113 |
| XI 7 | 13 57 | 19 01 | 0 10 | 72 | 22 10.6 | - 11 55 | 2.3 | 7.9 | 105 |
| 15 | 13 25 | 18 30 | 23 34 | 72 | 22 10.6 | - 11 55 | 2.2 | 7.9 | 97 |
| 23 | 12 54 | 17 58 | 23 03 | 72 | 22 10.8 | - 11 54 | 2.2 | 7.9 | 89 |
| XII 1 | 12 22 | 17 27 | 22 32 | 72 | 22 11.0 | - 11 53 | 2.2 | 7.9 | 81 |
| 9 | 11 51 | 16 56 | 22 01 | 72 | 22 11.4 | - 11 50 | 2.2 | 7.9 | 73 |
| 17 | 11 20 | 16 25 | 21 31 | 72 | 22 12.0 | - 11 47 | 2.2 | 7.9 | 65 |
| 25 | 10 49 | 15 54 | 21 00 | 72 | 22 12.7 | - 11 44 | 2.2 | 7.9 | 57 |
| 2013 I 2 | 10 18 | 15 24 | 20 30 | 72 | 22 13.4 | - 11 39 | 2.2 | 7.9 | 49 |