

SATURN

| M d 2012 | Wsch. | Kulm. | Zach. | A | α | δ | D | b/a | V | ΔI |
|-------------|-------------|-------|--------------|----|----------|----------|------|------|-----|------------|
| | $\lambda=0$ | | $\varphi=50$ | | 0^hUT | | | | | |
| | h m | h m | h m | ° | h m | ° ' " | " | | m | ° |
| I 0 | 1 50 | 7 11 | 12 32 | 77 | 13 48.4 | - 8 35 | 16.6 | 0.26 | 0.5 | -71 |
| 8 | 1 21 | 6 41 | 12 02 | 77 | 13 50.2 | - 8 43 | 16.8 | 0.26 | 0.5 | -78 |
| 16 | 0 51 | 6 11 | 11 31 | 77 | 13 51.6 | - 8 49 | 17.0 | 0.26 | 0.5 | -86 |
| 24 | 0 21 | 5 41 | 11 01 | 77 | 13 52.7 | - 8 52 | 17.3 | 0.26 | 0.4 | -94 |
| II 1 | 23 46 | 5 10 | 10 30 | 77 | 13 53.3 | - 8 54 | 17.5 | 0.26 | 0.4 | -102 |
| 9 | 23 15 | 4 39 | 9 59 | 77 | 13 53.5 | - 8 52 | 17.8 | 0.26 | 0.4 | -110 |
| 17 | 22 43 | 4 07 | 9 27 | 77 | 13 53.2 | - 8 49 | 18.0 | 0.26 | 0.4 | -118 |
| 25 | 22 10 | 3 35 | 8 56 | 77 | 13 52.6 | - 8 43 | 18.2 | 0.26 | 0.3 | -127 |
| III 4 | 21 37 | 3 02 | 8 24 | 77 | 13 51.5 | - 8 35 | 18.4 | 0.26 | 0.3 | -135 |
| 12 | 21 03 | 2 30 | 7 52 | 78 | 13 50.1 | - 8 26 | 18.6 | 0.25 | 0.3 | -143 |
| 20 | 20 29 | 1 56 | 7 19 | 78 | 13 48.4 | - 8 15 | 18.7 | 0.25 | 0.3 | -152 |
| 28 | 19 55 | 1 23 | 6 47 | 78 | 13 46.4 | - 8 02 | 18.9 | 0.25 | 0.4 | -160 |
| IV 5 | 19 20 | 0 49 | 6 14 | 78 | 13 44.2 | - 7 49 | 18.9 | 0.24 | 0.4 | -168 |
| 13 | 18 45 | 0 16 | 5 42 | 79 | 13 42.0 | - 7 36 | 19.0 | 0.24 | 0.4 | -176 |
| 21 | 18 10 | 23 38 | 5 09 | 79 | 13 39.7 | - 7 23 | 19.0 | 0.23 | 0.4 | 174 |
| 29 | 17 36 | 23 04 | 4 36 | 79 | 13 37.4 | - 7 10 | 18.9 | 0.23 | 0.5 | 166 |
| V 7 | 17 01 | 22 30 | 4 04 | 80 | 13 35.2 | - 6 59 | 18.8 | 0.23 | 0.5 | 158 |
| 15 | 16 27 | 21 57 | 3 31 | 80 | 13 33.3 | - 6 48 | 18.7 | 0.22 | 0.5 | 149 |
| 23 | 15 53 | 21 24 | 2 59 | 80 | 13 31.6 | - 6 40 | 18.5 | 0.22 | 0.6 | 141 |
| 31 | 15 20 | 20 51 | 2 26 | 80 | 13 30.2 | - 6 33 | 18.4 | 0.22 | 0.6 | 133 |
| VI 8 | 14 47 | 20 19 | 1 54 | 81 | 13 29.1 | - 6 29 | 18.2 | 0.22 | 0.7 | 125 |
| 16 | 14 15 | 19 46 | 1 22 | 81 | 13 28.4 | - 6 27 | 17.9 | 0.22 | 0.7 | 118 |
| 24 | 13 43 | 19 15 | 0 50 | 81 | 13 28.1 | - 6 27 | 17.7 | 0.22 | 0.7 | 110 |
| VII 2 | 13 12 | 18 43 | 0 19 | 81 | 13 28.2 | - 6 30 | 17.5 | 0.22 | 0.8 | 102 |
| 10 | 12 41 | 18 12 | 23 43 | 80 | 13 28.6 | - 6 35 | 17.2 | 0.22 | 0.8 | 95 |
| 18 | 12 11 | 17 42 | 23 12 | 80 | 13 29.5 | - 6 42 | 17.0 | 0.22 | 0.8 | 87 |
| 26 | 11 42 | 17 12 | 22 41 | 80 | 13 30.7 | - 6 52 | 16.8 | 0.22 | 0.8 | 80 |
| VIII 3 | 11 13 | 16 42 | 22 11 | 80 | 13 32.3 | - 7 03 | 16.5 | 0.23 | 0.9 | 73 |
| 11 | 10 45 | 16 12 | 21 40 | 79 | 13 34.3 | - 7 16 | 16.3 | 0.23 | 0.9 | 66 |
| 19 | 10 17 | 15 43 | 21 10 | 79 | 13 36.5 | - 7 31 | 16.2 | 0.24 | 0.9 | 59 |
| 27 | 9 49 | 15 14 | 20 39 | 78 | 13 39.0 | - 7 48 | 16.0 | 0.24 | 0.9 | 52 |
| IX 4 | 9 22 | 14 46 | 20 09 | 78 | 13 41.8 | - 8 05 | 15.8 | 0.25 | 0.9 | 45 |
| 12 | 8 55 | 14 17 | 19 39 | 78 | 13 44.8 | - 8 23 | 15.7 | 0.25 | 0.9 | 38 |
| 20 | 8 28 | 13 49 | 19 09 | 77 | 13 48.0 | - 8 43 | 15.6 | 0.26 | 0.9 | 31 |
| 28 | 8 02 | 13 21 | 18 40 | 76 | 13 51.4 | - 9 02 | 15.5 | 0.26 | 0.9 | 24 |
| X 6 | 7 35 | 12 53 | 18 10 | 76 | 13 54.9 | - 9 22 | 15.4 | 0.27 | 0.9 | 17 |
| 14 | 7 09 | 12 25 | 17 41 | 75 | 13 58.5 | - 9 43 | 15.4 | 0.28 | 0.9 | 10 |
| 22 | 6 43 | 11 57 | 17 11 | 75 | 14 02.2 | - 10 03 | 15.4 | 0.28 | 0.8 | 4 |
| 30 | 6 17 | 11 29 | 16 42 | 74 | 14 05.9 | - 10 23 | 15.4 | 0.29 | 0.8 | -5 |
| XI 7 | 5 51 | 11 02 | 16 12 | 74 | 14 09.6 | - 10 42 | 15.4 | 0.29 | 0.8 | -11 |
| 15 | 5 24 | 10 34 | 15 43 | 73 | 14 13.2 | - 11 01 | 15.4 | 0.30 | 0.8 | -18 |
| 23 | 4 58 | 10 06 | 15 13 | 73 | 14 16.8 | - 11 18 | 15.5 | 0.30 | 0.7 | -25 |
| XII 1 | 4 31 | 9 38 | 14 44 | 72 | 14 20.2 | - 11 35 | 15.6 | 0.31 | 0.7 | -33 |
| 9 | 4 05 | 9 10 | 14 15 | 72 | 14 23.5 | - 11 51 | 15.7 | 0.31 | 0.7 | -40 |
| 17 | 3 37 | 8 41 | 13 45 | 72 | 14 26.5 | - 12 05 | 15.9 | 0.32 | 0.6 | -47 |
| 25 | 3 10 | 8 13 | 13 15 | 71 | 14 29.4 | - 12 17 | 16.0 | 0.32 | 0.6 | -55 |
| 2013 I 2 | 2 42 | 7 44 | 12 45 | 71 | 14 31.9 | - 12 28 | 16.2 | 0.32 | 0.6 | -62 |