

2004 - July

Calendar for SAAO - Sutherland

2004 - July

Longitude: E 020 49  
Latitude : S 32 23

Height: 200m  
Time Zone: +02h 00m

Zone Time = UT + 02h 00m

| Date    | J.D. at<br>Oh UT<br>245 | LMST<br>at Oh UT<br>h m s | Moon  |       | Moon Transit<br>Dec. Phase<br>o ' . | Morning     |             |             | Sun   |       | Evening     |             |             |       |
|---------|-------------------------|---------------------------|-------|-------|-------------------------------------|-------------|-------------|-------------|-------|-------|-------------|-------------|-------------|-------|
|         |                         |                           | Rise  | Set   |                                     | Astr. Twil. | Naut. Twil. | Civil Twil. | Rise  | Set   | Civil Twil. | Naut. Twil. | Astr. Twil. |       |
|         |                         |                           | h m   | h m   |                                     | h m         | h m         | h m         | h m   | h m   | h m         | h m         | h m         | h m   |
| Thur 1  | 3187.5                  | 20 00 48                  | 16 29 | 06 36 | .. ..                               | 06 11       | 06 41       | 07 12       | 07 36 | 17 45 | 18 10       | 18 40       | 19 10       |       |
| Fri 2   | 3188.5                  | 20 04 45                  | 17 36 | 07 47 | -27 23                              | 0.99        | 06 11       | 06 41       | 07 12 | 07 36 | 17 46       | 18 10       | 18 41       | 19 10 |
| Sat 3   | 3189.5                  | 20 08 41                  | 18 50 | 08 49 | -26 44                              | 0.99        | 06 11       | 06 41       | 07 12 | 07 36 | 17 46       | 18 10       | 18 41       | 19 11 |
| Sun 4   | 3190.5                  | 20 12 38                  | 20 04 | 09 41 | -23 55                              | 0.96        | 06 11       | 06 41       | 07 12 | 07 36 | 17 46       | 18 11       | 18 41       | 19 11 |
| Mon 5   | 3191.5                  | 20 16 34                  | 21 15 | 10 24 | -19 23                              | 0.90        | 06 11       | 06 41       | 07 12 | 07 36 | 17 47       | 18 11       | 18 42       | 19 12 |
| Tues 6  | 3192.5                  | 20 20 31                  | 22 21 | 10 59 | -13 45                              | 0.82        | 06 11       | 06 41       | 07 11 | 07 36 | 17 47       | 18 12       | 18 42       | 19 12 |
| Wed 7   | 3193.5                  | 20 24 27                  | 23 24 | 11 30 | -07 34                              | 0.72        | 06 11       | 06 41       | 07 11 | 07 36 | 17 48       | 18 12       | 18 43       | 19 12 |
| Thur 8  | 3194.5                  | 20 28 24                  | .. .. | 11 58 | -01 14                              | 0.62        | 06 11       | 06 41       | 07 11 | 07 35 | 17 48       | 18 13       | 18 43       | 19 13 |
| Fri 9   | 3195.5                  | 20 32 21                  | 00 23 | 12 25 | +04 58                              | 0.51        | 06 11       | 06 41       | 07 11 | 07 35 | 17 49       | 18 13       | 18 43       | 19 13 |
| Sat 10  | 3196.5                  | 20 36 17                  | 01 21 | 12 53 | +10 48                              | 0.41        | 06 11       | 06 40       | 07 11 | 07 35 | 17 49       | 18 14       | 18 44       | 19 14 |
| Sun 11  | 3197.5                  | 20 40 14                  | 02 19 | 13 22 | +16 06                              | 0.31        | 06 11       | 06 40       | 07 11 | 07 35 | 17 50       | 18 14       | 18 44       | 19 14 |
| Mon 12  | 3198.5                  | 20 44 10                  | 03 16 | 13 54 | +20 39                              | 0.23        | 06 10       | 06 40       | 07 10 | 07 34 | 17 50       | 18 15       | 18 45       | 19 15 |
| Tues 13 | 3199.5                  | 20 48 07                  | 04 14 | 14 30 | +24 19                              | 0.15        | 06 10       | 06 40       | 07 10 | 07 34 | 17 51       | 18 15       | 18 45       | 19 15 |
| Wed 14  | 3200.5                  | 20 52 03                  | 05 12 | 15 12 | +26 53                              | 0.09        | 06 10       | 06 40       | 07 10 | 07 34 | 17 52       | 18 16       | 18 46       | 19 16 |
| Thur 15 | 3201.5                  | 20 56 00                  | 06 07 | 15 59 | +28 12                              | 0.04        | 06 10       | 06 39       | 07 09 | 07 33 | 17 52       | 18 16       | 18 46       | 19 16 |
| Fri 16  | 3202.5                  | 20 59 57                  | 06 59 | 16 51 | +28 10                              | 0.01        | 06 09       | 06 39       | 07 09 | 07 33 | 17 53       | 18 17       | 18 47       | 19 16 |
| Sat 17  | 3203.5                  | 21 03 53                  | 07 46 | 17 47 | +26 45                              | 0.00        | 06 09       | 06 39       | 07 09 | 07 33 | 17 53       | 18 17       | 18 47       | 19 17 |
| Sun 18  | 3204.5                  | 21 07 50                  | 08 28 | 18 46 | +24 02                              | 0.01        | 06 09       | 06 38       | 07 08 | 07 32 | 17 54       | 18 18       | 18 48       | 19 17 |
| Mon 19  | 3205.5                  | 21 11 46                  | 09 05 | 19 46 | +20 11                              | 0.04        | 06 08       | 06 38       | 07 08 | 07 32 | 17 55       | 18 18       | 18 48       | 19 18 |
| Tues 20 | 3206.5                  | 21 15 43                  | 09 37 | 20 45 | +15 24                              | 0.09        | 06 08       | 06 37       | 07 07 | 07 31 | 17 55       | 18 19       | 18 49       | 19 18 |
| Wed 21  | 3207.5                  | 21 19 39                  | 10 07 | 21 44 | +09 53                              | 0.16        | 06 08       | 06 37       | 07 07 | 07 31 | 17 56       | 18 20       | 18 50       | 19 19 |
| Thur 22 | 3208.5                  | 21 23 36                  | 10 35 | 22 43 | +03 52                              | 0.24        | 06 07       | 06 37       | 07 06 | 07 30 | 17 56       | 18 20       | 18 50       | 19 19 |
| Fri 23  | 3209.5                  | 21 27 32                  | 11 02 | 23 43 | -02 26                              | 0.34        | 06 07       | 06 36       | 07 06 | 07 30 | 17 57       | 18 21       | 18 51       | 19 20 |
| Sat 24  | 3210.5                  | 21 31 29                  | 11 31 | .. .. | -08 45                              | 0.45        | 06 06       | 06 36       | 07 05 | 07 29 | 17 58       | 18 21       | 18 51       | 19 20 |
| Sun 25  | 3211.5                  | 21 35 26                  | 12 02 | 00 46 | -14 48                              | 0.56        | 06 06       | 06 35       | 07 05 | 07 29 | 17 58       | 18 22       | 18 52       | 19 21 |
| Mon 26  | 3212.5                  | 21 39 22                  | 12 37 | 01 52 | -20 11                              | 0.68        | 06 05       | 06 35       | 07 04 | 07 28 | 17 59       | 18 22       | 18 52       | 19 21 |
| Tues 27 | 3213.5                  | 21 43 19                  | 13 20 | 03 02 | -24 26                              | 0.78        | 06 05       | 06 34       | 07 04 | 07 27 | 17 59       | 18 23       | 18 53       | 19 22 |
| Wed 28  | 3214.5                  | 21 47 15                  | 14 12 | 04 14 | -26 59                              | 0.88        | 06 04       | 06 33       | 07 03 | 07 27 | 18 00       | 18 24       | 18 53       | 19 23 |
| Thur 29 | 3215.5                  | 21 51 12                  | 15 13 | 05 26 | -27 25                              | 0.95        | 06 04       | 06 33       | 07 02 | 07 26 | 18 01       | 18 24       | 18 54       | 19 23 |
| Fri 30  | 3216.5                  | 21 55 08                  | 16 23 | 06 31 | -25 36                              | 0.99        | 06 03       | 06 32       | 07 02 | 07 25 | 18 01       | 18 25       | 18 54       | 19 24 |
| Sat 31  | 3217.5                  | 21 59 05                  | 17 38 | 07 28 | .. ..                               | ....        | 06 02       | 06 31       | 07 01 | 07 24 | 18 02       | 18 25       | 18 55       | 19 24 |