

1998 - August

Calendar for SAAO - Sutherland

1998 - August

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   |       |
| Sat  | 1                       | 1026.5                    | 22 00 52 | 12 36 | 01 21                               | -13 07      | 0.62        | 06 02       | 06 31 | 07 01 | 07 24       | 18 02       | 18 26       | 18 55 | 19 24 |
| Sun  | 2                       | 1027.5                    | 22 04 49 | 13 14 | 02 15                               | -15 45      | 0.71        | 06 01       | 06 30 | 07 00 | 07 23       | 18 03       | 18 26       | 18 56 | 19 25 |
| Mon  | 3                       | 1028.5                    | 22 08 45 | 13 56 | 03 09                               | -17 39      | 0.80        | 06 01       | 06 30 | 06 59 | 07 22       | 18 04       | 18 27       | 18 56 | 19 25 |
| Tues | 4                       | 1029.5                    | 22 12 42 | 14 43 | 04 03                               | -18 39      | 0.88        | 06 00       | 06 29 | 06 58 | 07 22       | 18 04       | 18 28       | 18 57 | 19 26 |
| Wed  | 5                       | 1030.5                    | 22 16 38 | 15 35 | 04 57                               | -18 34      | 0.94        | 05 59       | 06 28 | 06 58 | 07 21       | 18 05       | 18 28       | 18 58 | 19 26 |
| Thur | 6                       | 1031.5                    | 22 20 35 | 16 32 | 05 50                               | -17 20      | 0.98        | 05 59       | 06 27 | 06 57 | 07 20       | 18 06       | 18 29       | 18 58 | 19 27 |
| Fri  | 7                       | 1032.5                    | 22 24 32 | 17 33 | 06 40                               | .. ..       | ....        | 05 58       | 06 27 | 06 56 | 07 19       | 18 06       | 18 29       | 18 59 | 19 28 |
| Sat  | 8                       | 1033.5                    | 22 28 28 | 18 37 | 07 27                               | -14 58      | 1.00        | 05 57       | 06 26 | 06 55 | 07 18       | 18 07       | 18 30       | 18 59 | 19 28 |
| Sun  | 9                       | 1034.5                    | 22 32 25 | 19 42 | 08 12                               | -11 33      | 0.99        | 05 56       | 06 25 | 06 54 | 07 17       | 18 08       | 18 31       | 19 00 | 19 29 |
| Mon  | 10                      | 1035.5                    | 22 36 21 | 20 48 | 08 54                               | -07 19      | 0.95        | 05 55       | 06 24 | 06 53 | 07 16       | 18 08       | 18 31       | 19 00 | 19 29 |
| Tues | 11                      | 1036.5                    | 22 40 18 | 21 54 | 09 34                               | -02 34      | 0.89        | 05 55       | 06 23 | 06 52 | 07 15       | 18 09       | 18 32       | 19 01 | 19 30 |
| Wed  | 12                      | 1037.5                    | 22 44 14 | 22 59 | 10 14                               | +02 22      | 0.80        | 05 54       | 06 22 | 06 51 | 07 14       | 18 10       | 18 32       | 19 02 | 19 30 |
| Thur | 13                      | 1038.5                    | 22 48 11 | .. .. | 10 55                               | +07 09      | 0.69        | 05 53       | 06 22 | 06 51 | 07 13       | 18 10       | 18 33       | 19 02 | 19 31 |
| Fri  | 14                      | 1039.5                    | 22 52 07 | 00 04 | 11 37                               | +11 30      | 0.58        | 05 52       | 06 21 | 06 50 | 07 12       | 18 11       | 18 34       | 19 03 | 19 31 |
| Sat  | 15                      | 1040.5                    | 22 56 04 | 01 09 | 12 22                               | +15 07      | 0.46        | 05 51       | 06 20 | 06 49 | 07 11       | 18 11       | 18 34       | 19 03 | 19 32 |
| Sun  | 16                      | 1041.5                    | 23 00 00 | 02 12 | 13 10                               | +17 47      | 0.34        | 05 50       | 06 19 | 06 48 | 07 10       | 18 12       | 18 35       | 19 04 | 19 32 |
| Mon  | 17                      | 1042.5                    | 23 03 57 | 03 12 | 14 02                               | +19 21      | 0.24        | 05 49       | 06 18 | 06 47 | 07 09       | 18 13       | 18 35       | 19 04 | 19 33 |
| Tues | 18                      | 1043.5                    | 23 07 54 | 04 09 | 14 56                               | +19 43      | 0.15        | 05 48       | 06 17 | 06 46 | 07 08       | 18 13       | 18 36       | 19 05 | 19 34 |
| Wed  | 19                      | 1044.5                    | 23 11 50 | 05 02 | 15 53                               | +18 56      | 0.08        | 05 47       | 06 16 | 06 44 | 07 07       | 18 14       | 18 37       | 19 06 | 19 34 |
| Thur | 20                      | 1045.5                    | 23 15 47 | 05 50 | 16 51                               | +17 06      | 0.03        | 05 46       | 06 15 | 06 43 | 07 06       | 18 15       | 18 37       | 19 06 | 19 35 |
| Fri  | 21                      | 1046.5                    | 23 19 43 | 06 33 | 17 48                               | +14 25      | 0.00        | 05 45       | 06 14 | 06 42 | 07 05       | 18 15       | 18 38       | 19 07 | 19 35 |
| Sat  | 22                      | 1047.5                    | 23 23 40 | 07 12 | 18 44                               | +11 04      | 0.00        | 05 44       | 06 13 | 06 41 | 07 04       | 18 16       | 18 39       | 19 07 | 19 36 |
| Sun  | 23                      | 1048.5                    | 23 27 36 | 07 49 | 19 40                               | +07 18      | 0.02        | 05 43       | 06 11 | 06 40 | 07 03       | 18 17       | 18 39       | 19 08 | 19 36 |
| Mon  | 24                      | 1049.5                    | 23 31 33 | 08 22 | 20 34                               | +03 17      | 0.06        | 05 42       | 06 10 | 06 39 | 07 02       | 18 17       | 18 40       | 19 08 | 19 37 |
| Tues | 25                      | 1050.5                    | 23 35 29 | 08 55 | 21 27                               | -00 47      | 0.11        | 05 41       | 06 09 | 06 38 | 07 00       | 18 18       | 18 40       | 19 09 | 19 37 |
| Wed  | 26                      | 1051.5                    | 23 39 26 | 09 27 | 22 20                               | -04 45      | 0.18        | 05 40       | 06 08 | 06 37 | 06 59       | 18 18       | 18 41       | 19 10 | 19 38 |
| Thur | 27                      | 1052.5                    | 23 43 23 | 10 00 | 23 12                               | -08 29      | 0.26        | 05 39       | 06 07 | 06 36 | 06 58       | 18 19       | 18 42       | 19 10 | 19 39 |
| Fri  | 28                      | 1053.5                    | 23 47 19 | 10 34 | .. ..                               | -11 51      | 0.35        | 05 37       | 06 06 | 06 34 | 06 57       | 18 20       | 18 42       | 19 11 | 19 39 |
| Sat  | 29                      | 1054.5                    | 23 51 16 | 11 10 | 00 05                               | -14 43      | 0.45        | 05 36       | 06 05 | 06 33 | 06 56       | 18 20       | 18 43       | 19 11 | 19 40 |
| Sun  | 30                      | 1055.5                    | 23 55 12 | 11 50 | 00 58                               | -16 55      | 0.55        | 05 35       | 06 03 | 06 32 | 06 54       | 18 21       | 18 43       | 19 12 | 19 40 |
| Mon  | 31                      | 1056.5                    | 23 59 09 | 12 34 | 01 52                               | -18 18      | 0.65        | 05 34       | 06 02 | 06 31 | 06 53       | 18 22       | 18 44       | 19 12 | 19 41 |