

| Semester 2013B | August | | | | | | | | | | | | | | August | | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| LMST 0h HST | 20 22 | 20 26 | 20 30 | 20 34 | 20 38 | 20 42 | 20 46 | 20 50 | 20 54 | 20 58 | 21 02 | 21 06 | 21 10 | 21 14 | 21 17 | 21 21 | 21 25 | 21 29 | 21 33 | 21 37 | 21 41 | 21 45 | 21 49 | 21 53 | 21 57 | 22 01 | 22 05 | 22 09 | 22 13 | 22 17 | 22 21 | |
| Moon % Illum. | 17 | 10 | 5 | 2 | 0 | 0 | 3 | 7 | 13 | 20 | 29 | 40 | 51 | 62 | 73 | 83 | 91 | 96 | 100 | 100 | 97 | 92 | 86 | 77 | 68 | 59 | 49 | 40 | 30 | 22 | 15 | |
| Day Date | Thu 01 | Fri 02 | Sat 03 | Sun 04 | Mon 05 | Tue 06 | Wed 07 | Thu 08 | Fri 09 | Sat 10 | Sun 11 | Mon 12 | Tue 13 | Wed 14 | Thu 15 | Fri 16 | Sat 17 | Sun 18 | Mon 19 | Tue 20 | Wed 21 | Thu 22 | Fri 23 | Sat 24 | Sun 25 | Mon 26 | Tue 27 | Wed 28 | Thu 29 | Fri 30 | Sat 31 | |
| Upper End Instrument | M | M | M | M | M | M | M | M | M | M | M | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | M | M | M |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support Astro. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIC | | | | | | | | | | | | | | | IL | | | | | | | | | | | | KH | | | | | |
| STIC | | | | | | | | | | | | | | | TV | | | | | | | | | | | | JT | | | | | |
| Day Crew | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Date | Thu 01 | Fri 02 | Sat 03 | Sun 04 | Mon 05 | Tue 06 | Wed 07 | Thu 08 | Fri 09 | Sat 10 | Sun 11 | Mon 12 | Tue 13 | Wed 14 | Thu 15 | Fri 16 | Sat 17 | Sun 18 | Mon 19 | Tue 20 | Wed 21 | Thu 22 | Fri 23 | Sat 24 | Sun 25 | Mon 26 | Tue 27 | Wed 28 | Thu 29 | Fri 30 | Sat 31 | |

| Semester 2013B | September | | | | | | | | | | | | | | September | | | | | | | | | | | | | | | | |
|----------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| LMST 0h HST | 22 24 | 22 28 | 22 32 | 22 36 | 22 40 | 22 44 | 22 48 | 22 52 | 22 56 | 23 00 | 23 04 | 23 08 | 23 12 | 23 16 | 23 20 | 23 24 | 23 28 | 23 32 | 23 35 | 23 39 | 23 43 | 23 47 | 23 51 | 23 55 | 23 59 | 00 03 | 00 07 | 00 11 | 00 15 | 00 19 | |
| Moon % Illum. | 9 | 4 | 1 | 0 | 1 | 4 | 10 | 17 | 26 | 37 | 48 | 59 | 70 | 80 | 89 | 95 | 99 | 100 | 99 | 95 | 90 | 83 | 75 | 66 | 56 | 47 | 37 | 29 | 20 | 13 | |
| Day Date | Sun 01 | Mon 02 | Tue 03 | Wed 04 | Thu 05 | Fri 06 | Sat 07 | Sun 08 | Mon 09 | Tue 10 | Wed 11 | Thu 12 | Fri 13 | Sat 14 | Sun 15 | Mon 16 | Tue 17 | Wed 18 | Thu 19 | Fri 20 | Sat 21 | Sun 22 | Mon 23 | Tue 24 | Wed 25 | Thu 26 | Fri 27 | Sat 28 | Sun 29 | Mon 30 | |
| Upper End Instrument | M | M | M | M | M | M | M | M | M | M | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | M | M | M | M |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support Astro. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIC | | | | | | | | | | | | | | | TV | | | | | | | | | | | | BM | | | | |
| STIC | | | | | | | | | | | | | | | TV | | | | | | | | | | | | JT | | | | |
| Day Crew | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Date | Sun 01 | Mon 02 | Tue 03 | Wed 04 | Thu 05 | Fri 06 | Sat 07 | Sun 08 | Mon 09 | Tue 10 | Wed 11 | Thu 12 | Fri 13 | Sat 14 | Sun 15 | Mon 16 | Tue 17 | Wed 18 | Thu 19 | Fri 20 | Sat 21 | Sun 22 | Mon 23 | Tue 24 | Wed 25 | Thu 26 | Fri 27 | Sat 28 | Sun 29 | Mon 30 | |

| Semester 2013B | October | | | | | | | | | | | | | | October | | | | | | | | | | | | | | | | |
|----------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| LMST 0h HST | 00 23 | 00 27 | 00 31 | 00 35 | 00 39 | 00 42 | 00 46 | 00 50 | 00 54 | 00 58 | 01 02 | 01 06 | 01 10 | 01 14 | 01 18 | 01 22 | 01 26 | 01 30 | 01 34 | 01 38 | 01 42 | 01 46 | 01 49 | 01 53 | 01 57 | 02 01 | 02 05 | 02 09 | 02 13 | 02 17 | 02 21 |
| Moon % Illum. | 7 | 3 | 0 | 0 | 3 | 7 | 14 | 23 | 34 | 45 | 56 | 67 | 78 | 86 | 93 | 97 | 100 | 100 | 98 | 94 | 88 | 81 | 73 | 64 | 55 | 45 | 36 | 27 | 18 | 11 | 5 |
| Day Date | Tue 01 | Wed 02 | Thu 03 | Fri 04 | Sat 05 | Sun 06 | Mon 07 | Tue 08 | Wed 09 | Thu 10 | Fri 11 | Sat 12 | Sun 13 | Mon 14 | Tue 15 | Wed 16 | Thu 17 | Fri 18 | Sat 19 | Sun 20 | Mon 21 | Tue 22 | Wed 23 | Thu 24 | Fri 25 | Sat 26 | Sun 27 | Mon 28 | Tue 29 | Wed 30 | Thu 31 |
| Upper End Instrument | M | M | M | M | M | M | M | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | M | M | M | M |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support Astro. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIC | | | | | | | | | | | | | | | KW | | | | | | | | | | | | DT | | | | |
| STIC | | | | | | | | | | | | | | | DT | | | | | | | | | | | | JT | | | | |
| Day Crew | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Date | Tue 01 | Wed 02 | Thu 03 | Fri 04 | Sat 05 | Sun 06 | Mon 07 | Tue 08 | Wed 09 | Thu 10 | Fri 11 | Sat 12 | Sun 13 | Mon 14 | Tue 15 | Wed 16 | Thu 17 | Fri 18 | Sat 19 | Sun 20 | Mon 21 | Tue 22 | Wed 23 | Thu 24 | Fri 25 | Sat 26 | Sun 27 | Mon 28 | Tue 29 | Wed 30 | Thu 31 |

| Semester 2013B | November | | | | | | | | | | | | | | November | | | | | | | | | | | | | | | |
|----------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| LMST 0h HST | 02 25 | 02 29 | 02 33 | 02 37 | 02 41 | 02 45 | 02 49 | 02 53 | 02 57 | 03 00 | 03 04 | 03 08 | 03 12 | 03 16 | 03 20 | 03 24 | 03 28 | 03 32 | 03 36 | 03 40 | 03 44 | 03 48 | 03 52 | 03 56 | 04 00 | 04 04 | 04 07 | 04 11 | 04 15 | 04 19 |
| Moon % Illum. | 1 | 0 | 1 | 5 | 12 | 20 | 30 | 42 | 53 | 64 | 74 | 83 | 90 | 95 | 99 | 100 | 99 | 97 | 92 | 87 | 80 | 72 | 63 | 53 | 44 | 34 | 24 | 16 | 9 | 3 |
| Day Date | Fri 01 | Sat 02 | Sun 03 | Mon 04 | Tue 05 | Wed 06 | Thu 07 | Fri 08 | Sat 09 | Sun 10 | Mon 11 | Tue 12 | Wed 13 | Thu 14 | Fri 15 | Sat 16 | Sun 17 | Mon 18 | Tue 19 | Wed 20 | Thu 21 | Fri 22 | Sat 23 | Sun 24 | Mon 25 | Tue 26 | Wed 27 | Thu 28 | Fri 29 | Sat 30 |
| Upper End Instrument | M | M | M | M | M | M | M | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | M | M | M | M | M |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support Astro. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Crew | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Date | Fri 01 | Sat 02 | Sun 03 | Mon 04 | Tue 05 | Wed 06 | Thu 07 | Fri 08 | Sat 09 | Sun 10 | Mon 11 | Tue 12 | Wed 13 | Thu 14 | Fri 15 | Sat 16 | Sun 17 | Mon 18 | Tue 19 | Wed 20 | Thu 21 | Fri 22 | Sat 23 | Sun 24 | Mon 25 | Tue 26 | Wed 27 | Thu 28 | Fri 29 | Sat 30 |

| Semester 2013B | December | | | | | | | | | | | | | | December | | | | | | | | | | | | | | | | |
|----------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| LMST 0h HST | 04 23 | 04 27 | 04 31 | 04 35 | 04 39 | 04 43 | 04 47 | 04 51 | 04 55 | 04 59 | 05 03 | 05 07 | 05 11 | 05 15 | 05 18 | 05 22 | 05 26 | 05 30 | 05 34 | 05 38 | 05 42 | 05 46 | 05 50 | 05 54 | 05 58 | 06 02 | 06 06 | 06 10 | 06 14 | 06 18 | 06 22 |
| Moon % Illum. | 0 | 0 | 3 | 9 | 17 | 27 | 37 | 48 | 59 | 70 | 79 | 86 | 92 | 97 | 99 | 100 | 99 | 96 | 92 | 86 | 78 | 70 | 61 | 51 | 41 | 31 | 21 | 12 | 6 | 1 | 0 |
| Day Date | Sun 01 | Mon 02 | Tue 03 | Wed 04 | Thu 05 | Fri 06 | Sat 07 | Sun 08 | Mon 09 | Tue 10 | Wed 11 | Thu 12 | Fri 13 | Sat 14 | Sun 15 | Mon 16 | Tue 17 | Wed 18 | Thu 19 | Fri 20 | Sat 21 | Sun 22 | Mon 23 | Tue 24 | Wed 25 | Thu 26 | Fri 27 | Sat 28 | Sun 29 | Mon 30 | Tue 31 |
| Upper End Instrument | M | M | M | M | M | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | M | M | M | M | M |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support Astro. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Crew | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Date | Sun 01 | Mon 02 | Tue 03 | Wed 04 | Thu 05 | Fri 06 | Sat 07 | Sun 08 | Mon 09 | Tue 10 | Wed 11 | Thu 12 | Fri 13 | Sat 14 | Sun 15 | Mon 16 | Tue 17 | Wed 18 | Thu 19 | Fri 20 | Sat 21 | Sun 22 | Mon 23 | Tue 24 | Wed 25 | Thu 26 | Fri 27 | Sat 28 | Sun 29 | Mon 30 | Tue 31 |

| Semester 2013B | January | | | | | | | | | | | | | | January | | | | | | | | | | | | | | | | |
|----------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| LMST 0h HST | 06 25 | 06 29 | 06 33 | 06 37 | 06 41 | 06 45 | 06 49 | 06 53 | 06 57 | 07 01 | 07 05 | 07 09 | 07 13 | 07 17 | 07 21 | 07 25 | 07 29 | 07 32 | 07 36 | 07 40 | 07 44 | 07 48 | 07 52 | 07 56 | 08 00 | 08 04 | 08 08 | 08 12 | 08 16 | 08 20 | 08 24 |
| Moon % Illum. | 2 | 6 | 13 | 22 | 32 | 43 | 54 | 64 | 73 | 81 | 88 | 94 | 97 | 100 | 100 | 99 | 95 | 91 | 84 | 76 | 68 | 58 | 47 | 36 | 26 | 16 | 8 | 3 | 0 | 1 | 4 |
| Day Date | Wed 01 | Thu 02 | Fri 03 | Sat 04 | Sun 05 | Mon 06 | Tue 07 | Wed 08 | Thu 09 | Fri 10 | Sat 11 | Sun 12 | Mon 13 | Tue 14 | Wed 15 | Thu 16 | Fri 17 | Sat 18 | Sun 19 | Mon 20 | Tue 21 | Wed 22 | Thu 23 | Fri 24 | Sat 25 | Sun 26 | Mon 27 | Tue 28 | Wed 29 | Thu 30 | Fri 31 |
| Upper End Instrument | M | M | M | M | M | M | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | M | M | M | M | M | M | M | M |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support Astro. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Crew | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day Date | Wed 01 | Thu 02 | Fri 03 | Sat 04 | Sun 05 | Mon 06 | Tue 07 | Wed 08 | Thu 09 | Fri 10 | Sat 11 | Sun 12 | Mon 13 | Tue 14 | Wed 15 | Thu 16 | Fri 17 | Sat 18 | Sun 19 | Mon 20 | Tue 21 | Wed 22 | Thu 23 | Fri 24 | Sat 25 | Sun 26 | Mon 27 | Tue 28 | Wed 29 | Thu 30 | Fri 31 |