# Wet Run Info for PG1605

**RA**: 16 08 03.0 **dec**: 7 04 42 Epoch 2000.00

2002 Apr 30 to 2002 May 21

computed using Wetcalc

(see wetcalc.tex for documentation)

March 27, 2002

| PG1605: 2002 Apr 30, Moon 84% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v.[1] | l.v.[1] | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | | | | | | | | |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | | | | | | | | |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | | | | | | | | |
| La Palma | | | | | | | | |
| Nordic Optical Telescope | 21 23 | 5 06 | 2 45 | 21 12 | 5 06 | 5.00 | 1.30 | 1.08 |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | | | | | | | | |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | | | | | | | | |
| Kitt Peak | 3 36 | 11 11 | 8 58 | 3 36 | 11 11 | 5.00 | 1.30 | 1.10 |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 1, Moon 75% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | | | | | | | | |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | | | | | | | | |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | | | | | | | | |
| La Palma | | | | | | | | |
| Nordic Optical Telescope | 21 19 | 5 05 | 2 41 | 21 13 | 5 05 | 5.00 | 1.31 | 1.08 |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | | | | | | | | |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | | | | | | | | |
| Kitt Peak | 3 36 | 11 10 | 8 54 | 3 36 | 11 10 | 4.62 | 1.31 | 1.10 |
| Mauna Kea, Hawaii | | | | | | | | |

[1] *f.v.* and *l.v.* denote the time when the object is “first visible” and “last visible”, respectively. This takes into account both the rise and set times as well as the evening and morning twilight times.

| PG1605: 2002 May 2, Moon 66% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | | | | | | | | |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | | | | | | | | |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | | | | | | | | |
| La Palma | | | | | | | | |
| Nordic Optical Telescope | 21 15 | 5 04 | 2 37 | 21 14 | 5 04 | 5.00 | 1.32 | 1.08 |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | | | | | | | | |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | | | | | | | | |
| Kitt Peak | 3 37 | 11 09 | 8 50 | 3 37 | 11 09 | 4.27 | 1.32 | 1.10 |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 3, Moon 56% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | | | | | | | | |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | | | | | | | | |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | | | | | | | | |
| La Palma | | | | | | | | |
| Nordic Optical Telescope | 21 15 | 5 03 | 2 33 | 21 15 | 5 03 | 4.68 | 1.34 | 1.08 |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | | | | | | | | |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | | | | | | | | |
| Kitt Peak | 3 38 | 11 08 | 8 46 | 3 38 | 11 08 | 3.97 | 1.33 | 1.10 |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 4, Moon 46% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | | | | | | | | |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | | | | | | | | |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | | | | | | | | |
| La Palma | | | | | | | | |
| Nordic Optical Telescope | 21 15 | 5 02 | 2 29 | 21 15 | 5 02 | 4.32 | 1.35 | 1.08 |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | | | | | | | | |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | | | | | | | | |
| Kitt Peak | 3 39 | 11 07 | 8 42 | 3 39 | 11 07 | 3.71 | 1.34 | 1.10 |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 5, Moon 37% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 10 | 0 02 | 22 24 | 18 10 | 0 02 | 2.46 | 1.35 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | 20 26 | 0 46 | 23 53 | 20 26 | 0 46 | 2.04 | 1.39 | 1.36 |
| Piszkesteto, Hungary | 20 12 | 1 02 | 23 54 | 20 12 | 1 02 | 2.14 | 1.37 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | 20 22 | 3 11 | 1 03 | 20 22 | 3 11 | 2.95 | 1.34 | 1.16 |
| Teide, Tenerife | | | | | | | | |
| La Palma | 21 16 | 5 00 | 2 25 | 21 16 | 5 00 | 4.01 | 1.36 | 1.08 |
| Nordic Optical Telescope | 21 16 | 5 01 | 2 25 | 21 16 | 5 01 | 4.01 | 1.36 | 1.08 |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | | | | | | | | |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | 3 38 | 11 00 | 8 35 | 3 38 | 11 00 | 3.42 | 1.35 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 6, Moon 28% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | 11 53 | 18 48 | 16 35 | 11 53 | 18 48 | 2.96 | 1.35 | 1.14 |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 12 | 0 00 | 22 20 | 18 12 | 0 00 | 2.36 | 1.36 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | 20 29 | 0 43 | 23 49 | 20 29 | 0 43 | 1.98 | 1.39 | 1.36 |
| Piszkesteto, Hungary | 20 14 | 0 59 | 23 50 | 20 14 | 0 59 | 2.07 | 1.38 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | 20 23 | 3 09 | 0 59 | 20 23 | 3 09 | 2.81 | 1.35 | 1.16 |
| Teide, Tenerife | 21 10 | 4 55 | 2 15 | 21 10 | 4 55 | 3.81 | 1.38 | 1.07 |
| La Palma | 21 17 | 4 59 | 2 21 | 21 17 | 4 59 | 3.74 | 1.37 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | 1 04 | 9 54 | 5 52 | 23 26 | 9 54 | 5.00 | 2.80 | 1.26 |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | 3 39 | 10 59 | 8 31 | 3 39 | 10 59 | 3.23 | 1.36 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 7, Moon 20% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 10 24 | 19 16 | 15 11 | 8 45 | 19 16 | 5.00 | 2.92 | 1.28 |
| Bohyunsan Obs., Korea | 11 54 | 18 47 | 16 31 | 11 54 | 18 47 | 2.81 | 1.36 | 1.14 |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 14 | 23 59 | 22 16 | 18 14 | 23 59 | 2.28 | 1.36 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | 18 57 | 3 50 | 23 42 | 17 17 | 3 50 | 5.00 | 3.06 | 1.30 |
| Suhora, Poland | 20 32 | 0 40 | 23 45 | 20 32 | 0 40 | 1.92 | 1.39 | 1.36 |
| Piszkesteto, Hungary | 20 17 | 0 56 | 23 46 | 20 17 | 0 56 | 2.01 | 1.38 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | 20 45 | 2 22 | 0 43 | 20 45 | 2 22 | 2.23 | 1.36 | 1.25 |
| Calar Alto, Spain | 20 25 | 3 08 | 0 55 | 20 25 | 3 08 | 2.68 | 1.36 | 1.16 |
| Teide, Tenerife | 21 11 | 4 54 | 2 11 | 21 11 | 4 54 | 3.57 | 1.39 | 1.07 |
| La Palma | 21 18 | 4 58 | 2 17 | 21 18 | 4 58 | 3.51 | 1.39 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | 1 00 | 9 55 | 5 48 | 23 25 | 9 55 | 5.00 | 2.92 | 1.26 |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | 3 40 | 10 58 | 8 27 | 3 40 | 10 58 | 3.06 | 1.37 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 8, Moon 13% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 10 20 | 19 16 | 15 07 | 8 44 | 19 16 | 5.00 | 3.06 | 1.28 |
| Bohyunsan Obs., Korea | 11 55 | 18 45 | 16 27 | 11 55 | 18 45 | 2.69 | 1.37 | 1.14 |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 16 | 23 57 | 22 12 | 18 16 | 23 57 | 2.20 | 1.37 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | 18 53 | 3 50 | 23 38 | 17 16 | 3 50 | 5.00 | 3.20 | 1.30 |
| Suhora, Poland | 20 35 | 0 37 | 23 41 | 20 35 | 0 37 | 1.87 | 1.39 | 1.36 |
| Piszkesteto, Hungary | 20 20 | 0 54 | 23 42 | 20 20 | 0 54 | 1.95 | 1.38 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | 20 47 | 2 20 | 0 39 | 20 47 | 2 20 | 2.16 | 1.37 | 1.25 |
| Calar Alto, Spain | 20 26 | 3 06 | 0 51 | 20 26 | 3 06 | 2.57 | 1.37 | 1.16 |
| Teide, Tenerife | 21 12 | 4 53 | 2 07 | 21 12 | 4 53 | 3.36 | 1.40 | 1.07 |
| La Palma | 21 18 | 4 57 | 2 13 | 21 18 | 4 57 | 3.31 | 1.40 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 23 07 | 8 08 | 4 03 | 21 50 | 8 08 | 5.00 | 2.54 | 1.15 |
| Cerro Tololo | 0 56 | 9 55 | 5 44 | 23 24 | 9 55 | 5.00 | 3.05 | 1.26 |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | 3 42 | 10 57 | 8 23 | 3 42 | 10 57 | 2.91 | 1.39 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 9, Moon 7% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 10 16 | 19 17 | 15 03 | 8 44 | 19 17 | 5.00 | 3.20 | 1.28 |
| Bohyunsan Obs., Korea | 11 57 | 18 44 | 16 23 | 11 57 | 18 44 | 2.57 | 1.38 | 1.14 |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 18 | 23 55 | 22 08 | 18 18 | 23 55 | 2.13 | 1.37 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | 18 49 | 3 51 | 23 34 | 17 16 | 3 51 | 5.00 | 3.36 | 1.30 |
| Suhora, Poland | 20 38 | 0 34 | 23 37 | 20 38 | 0 34 | 1.82 | 1.39 | 1.36 |
| Piszkesteto, Hungary | 20 22 | 0 51 | 23 38 | 20 22 | 0 51 | 1.90 | 1.38 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | 20 49 | 2 18 | 0 35 | 20 49 | 2 18 | 2.09 | 1.37 | 1.25 |
| Calar Alto, Spain | 20 27 | 3 05 | 0 47 | 20 27 | 3 05 | 2.46 | 1.38 | 1.16 |
| Teide, Tenerife | 21 12 | 4 52 | 2 03 | 21 12 | 4 52 | 3.17 | 1.42 | 1.07 |
| La Palma | 21 19 | 4 56 | 2 09 | 21 19 | 4 56 | 3.13 | 1.42 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 23 03 | 8 08 | 3 59 | 21 50 | 8 08 | 5.00 | 2.64 | 1.15 |
| Cerro Tololo | 0 52 | 9 56 | 5 40 | 23 24 | 9 56 | 5.00 | 3.20 | 1.26 |
| McDonald Observatory | 3 10 | 10 35 | 7 52 | 3 10 | 10 35 | 2.91 | 1.41 | 1.09 |
| Mount Lemmon, Arizona | 3 43 | 10 56 | 8 19 | 3 43 | 10 56 | 2.77 | 1.40 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | 6 08 | 14 29 | 11 18 | 6 08 | 14 29 | 4.17 | 1.50 | 1.03 |

| PG1605: 2002 May 10, Moon 3% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 10 12 | 19 17 | 14 59 | 8 43 | 19 17 | 5.00 | 3.36 | 1.28 |
| Bohyunsan Obs., Korea | 11 58 | 18 43 | 16 19 | 11 58 | 18 43 | 2.47 | 1.39 | 1.14 |
| Beijing Observatory | 13 05 | 19 16 | 17 09 | 13 05 | 19 16 | 2.24 | 1.38 | 1.19 |
| Terskol Obs., Ukraine | 18 19 | 23 53 | 22 04 | 18 19 | 23 53 | 2.06 | 1.38 | 1.24 |
| Turkish Natl. Obs. | 18 36 | 1 14 | 22 53 | 18 36 | 1 14 | 2.40 | 1.39 | 1.15 |
| South Africa | 18 45 | 3 52 | 23 31 | 17 15 | 3 52 | 5.00 | 3.54 | 1.30 |
| Suhora, Poland | 20 41 | 0 31 | 23 34 | 20 41 | 0 31 | 1.78 | 1.39 | 1.36 |
| Piszkesteto, Hungary | 20 25 | 0 48 | 23 34 | 20 25 | 0 48 | 1.85 | 1.39 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | 20 51 | 2 16 | 0 31 | 20 51 | 2 16 | 2.02 | 1.38 | 1.25 |
| Calar Alto, Spain | 20 29 | 3 04 | 0 43 | 20 29 | 3 04 | 2.37 | 1.39 | 1.16 |
| Teide, Tenerife | 21 13 | 4 51 | 1 59 | 21 13 | 4 51 | 3.01 | 1.43 | 1.07 |
| La Palma | 21 20 | 4 55 | 2 05 | 21 20 | 4 55 | 2.97 | 1.43 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 59 | 8 08 | 3 55 | 21 49 | 8 08 | 5.00 | 2.75 | 1.15 |
| Cerro Tololo | 0 48 | 9 56 | 5 36 | 23 23 | 9 56 | 5.00 | 3.36 | 1.26 |
| McDonald Observatory | 3 11 | 10 34 | 7 49 | 3 11 | 10 34 | 2.78 | 1.42 | 1.09 |
| Mount Lemmon, Arizona | 3 44 | 10 55 | 8 15 | 3 44 | 10 55 | 2.64 | 1.41 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | 6 08 | 14 28 | 11 14 | 6 08 | 14 28 | 3.88 | 1.52 | 1.03 |

| PG1605: 2002 May 11, Moon 0% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 10 08 | 19 18 | 14 55 | 8 43 | 19 18 | 5.00 | 3.54 | 1.28 |
| Bohyunsan Obs., Korea | 11 59 | 18 41 | 16 15 | 11 59 | 18 41 | 2.37 | 1.40 | 1.14 |
| Beijing Observatory | 13 07 | 19 15 | 17 05 | 13 07 | 19 15 | 2.17 | 1.39 | 1.19 |
| Terskol Obs., Ukraine | 18 21 | 23 51 | 22 00 | 18 21 | 23 51 | 2.00 | 1.38 | 1.24 |
| Turkish Natl. Obs. | 18 37 | 1 13 | 22 49 | 18 37 | 1 13 | 2.31 | 1.40 | 1.15 |
| South Africa | 18 41 | 3 52 | 23 27 | 17 14 | 3 52 | 5.00 | 3.74 | 1.30 |
| Suhora, Poland | 20 44 | 0 28 | 23 30 | 20 44 | 0 28 | 1.74 | 1.40 | 1.36 |
| Piszkesteto, Hungary | 20 27 | 0 46 | 23 30 | 20 27 | 0 46 | 1.80 | 1.39 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | 20 53 | 2 14 | 0 27 | 20 53 | 2 14 | 1.96 | 1.38 | 1.25 |
| Calar Alto, Spain | 20 30 | 3 02 | 0 40 | 20 30 | 3 02 | 2.28 | 1.40 | 1.16 |
| Teide, Tenerife | 21 14 | 4 50 | 1 55 | 21 14 | 4 50 | 2.86 | 1.45 | 1.07 |
| La Palma | 21 21 | 4 54 | 2 01 | 21 21 | 4 54 | 2.82 | 1.45 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 55 | 8 09 | 3 51 | 21 49 | 8 09 | 5.00 | 2.88 | 1.15 |
| Cerro Tololo | 0 44 | 9 57 | 5 32 | 23 23 | 9 57 | 5.00 | 3.54 | 1.26 |
| McDonald Observatory | 3 12 | 10 33 | 7 45 | 3 12 | 10 33 | 2.65 | 1.44 | 1.09 |
| Mount Lemmon, Arizona | 3 45 | 10 54 | 8 11 | 3 45 | 10 54 | 2.53 | 1.43 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | 6 09 | 14 28 | 11 10 | 6 09 | 14 28 | 3.63 | 1.55 | 1.03 |

| PG1605: 2002 May 12, Moon 0% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 10 04 | 19 18 | 14 51 | 8 42 | 19 18 | 5.00 | 3.74 | 1.28 |
| Bohyunsan Obs., Korea | 12 00 | 18 40 | 16 11 | 12 00 | 18 40 | 2.28 | 1.41 | 1.14 |
| Beijing Observatory | 13 08 | 19 13 | 17 02 | 13 08 | 19 13 | 2.10 | 1.39 | 1.19 |
| Terskol Obs., Ukraine | 18 23 | 23 49 | 21 56 | 18 23 | 23 49 | 1.94 | 1.39 | 1.24 |
| Turkish Natl. Obs. | 18 38 | 1 11 | 22 45 | 18 38 | 1 11 | 2.23 | 1.41 | 1.15 |
| South Africa | 18 37 | 3 53 | 23 23 | 17 14 | 3 53 | 5.00 | 3.96 | 1.30 |
| Suhora, Poland | 20 47 | 0 25 | 23 26 | 20 47 | 0 25 | 1.70 | 1.40 | 1.36 |
| Piszkesteto, Hungary | 20 30 | 0 43 | 23 26 | 20 30 | 0 43 | 1.76 | 1.39 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | 20 55 | 2 12 | 0 23 | 20 55 | 2 12 | 1.91 | 1.39 | 1.25 |
| Calar Alto, Spain | 20 31 | 3 01 | 0 36 | 20 31 | 3 01 | 2.20 | 1.41 | 1.16 |
| Teide, Tenerife | 21 15 | 4 49 | 1 52 | 21 15 | 4 49 | 2.73 | 1.47 | 1.07 |
| La Palma | 21 22 | 4 53 | 1 57 | 21 22 | 4 53 | 2.69 | 1.46 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 51 | 8 09 | 3 47 | 21 48 | 8 09 | 5.00 | 3.01 | 1.15 |
| Cerro Tololo | 0 40 | 9 57 | 5 28 | 23 22 | 9 57 | 5.00 | 3.75 | 1.26 |
| McDonald Observatory | 3 13 | 10 32 | 7 41 | 3 13 | 10 32 | 2.54 | 1.45 | 1.09 |
| Mount Lemmon, Arizona | 3 46 | 10 53 | 8 07 | 3 46 | 10 53 | 2.43 | 1.44 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | 6 09 | 14 27 | 11 06 | 6 09 | 14 27 | 3.41 | 1.57 | 1.03 |

| PG1605: 2002 May 13, Moon 1% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 10 00 | 19 19 | 14 47 | 8 41 | 19 19 | 5.00 | 3.97 | 1.28 |
| Bohyunsan Obs., Korea | 12 02 | 18 39 | 16 07 | 12 02 | 18 39 | 2.20 | 1.42 | 1.14 |
| Beijing Observatory | 13 10 | 19 12 | 16 58 | 13 10 | 19 12 | 2.03 | 1.40 | 1.19 |
| Terskol Obs., Ukraine | 18 25 | 23 47 | 21 52 | 18 25 | 23 47 | 1.89 | 1.39 | 1.24 |
| Turkish Natl. Obs. | 18 39 | 1 10 | 22 41 | 18 39 | 1 10 | 2.15 | 1.42 | 1.15 |
| South Africa | 18 34 | 3 53 | 23 19 | 17 13 | 3 53 | 5.00 | 4.22 | 1.30 |
| Suhora, Poland | 20 50 | 0 21 | 23 22 | 20 50 | 0 21 | 1.66 | 1.40 | 1.36 |
| Piszkesteto, Hungary | 20 33 | 0 40 | 23 22 | 20 33 | 0 40 | 1.72 | 1.39 | 1.32 |
| Bologna Uni. Obs., Italy | 20 36 | 1 45 | 23 57 | 20 36 | 1 45 | 1.85 | 1.39 | 1.26 |
| Obs. of Haute-Provence | 20 57 | 2 10 | 0 19 | 20 57 | 2 10 | 1.86 | 1.39 | 1.25 |
| Calar Alto, Spain | 20 32 | 3 00 | 0 32 | 20 32 | 3 00 | 2.13 | 1.42 | 1.16 |
| Teide, Tenerife | 21 16 | 4 49 | 1 48 | 21 16 | 4 49 | 2.60 | 1.49 | 1.07 |
| La Palma | 21 23 | 4 53 | 1 53 | 21 23 | 4 53 | 2.57 | 1.48 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 47 | 8 09 | 3 44 | 21 48 | 8 09 | 5.00 | 3.16 | 1.15 |
| Cerro Tololo | 0 36 | 9 58 | 5 24 | 23 22 | 9 58 | 5.00 | 3.98 | 1.26 |
| McDonald Observatory | 3 14 | 10 31 | 7 37 | 3 14 | 10 31 | 2.43 | 1.47 | 1.09 |
| Mount Lemmon, Arizona | 3 47 | 10 52 | 8 04 | 3 47 | 10 52 | 2.34 | 1.46 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | 6 10 | 14 26 | 11 02 | 6 10 | 14 26 | 3.22 | 1.60 | 1.03 |

| PG1605: 2002 May 14, Moon 4% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 9 57 | 19 20 | 14 43 | 8 41 | 19 20 | 5.00 | 4.23 | 1.28 |
| Bohyunsan Obs., Korea | 12 03 | 18 38 | 16 03 | 12 03 | 18 38 | 2.13 | 1.43 | 1.14 |
| Beijing Observatory | 13 11 | 19 10 | 16 54 | 13 11 | 19 10 | 1.97 | 1.41 | 1.19 |
| Terskol Obs., Ukraine | 18 27 | 23 46 | 21 48 | 18 27 | 23 46 | 1.84 | 1.40 | 1.24 |
| Turkish Natl. Obs. | 18 41 | 1 09 | 22 37 | 18 41 | 1 09 | 2.08 | 1.43 | 1.15 |
| South Africa | | | | | | | | |
| Suhora, Poland | 20 54 | 0 18 | 23 18 | 20 54 | 0 18 | 1.63 | 1.40 | 1.36 |
| Piszkesteto, Hungary | 20 35 | 0 38 | 23 18 | 20 35 | 0 38 | 1.68 | 1.40 | 1.32 |
| Bologna Uni. Obs., Italy | 20 38 | 1 43 | 23 53 | 20 38 | 1 43 | 1.80 | 1.40 | 1.26 |
| Obs. of Haute-Provence | 20 59 | 2 08 | 0 15 | 20 59 | 2 08 | 1.81 | 1.40 | 1.25 |
| Calar Alto, Spain | 20 34 | 2 58 | 0 28 | 20 34 | 2 58 | 2.06 | 1.43 | 1.16 |
| Teide, Tenerife | 21 17 | 4 48 | 1 44 | 21 17 | 4 48 | 2.49 | 1.51 | 1.07 |
| La Palma | 21 24 | 4 52 | 1 49 | 21 24 | 4 52 | 2.47 | 1.50 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 43 | 8 10 | 3 40 | 21 48 | 8 10 | 5.00 | 3.32 | 1.15 |
| Cerro Tololo | 0 32 | 9 58 | 5 20 | 23 21 | 9 58 | 5.00 | 4.24 | 1.26 |
| McDonald Observatory | 3 15 | 10 30 | 7 33 | 3 15 | 10 30 | 2.34 | 1.49 | 1.09 |
| Mount Lemmon, Arizona | 3 48 | 10 51 | 8 00 | 3 48 | 10 51 | 2.25 | 1.47 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | 6 10 | 14 26 | 10 58 | 6 10 | 14 26 | 3.04 | 1.63 | 1.03 |

| PG1605: 2002 May 15, Moon 9% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 9 53 | 19 20 | 14 39 | 8 40 | 19 20 | 5.00 | 4.53 | 1.28 |
| Bohyunsan Obs., Korea | 12 04 | 18 37 | 15 59 | 12 04 | 18 37 | 2.06 | 1.45 | 1.14 |
| Beijing Observatory | 13 13 | 19 09 | 16 50 | 13 13 | 19 09 | 1.92 | 1.42 | 1.19 |
| Terskol Obs., Ukraine | 18 29 | 23 44 | 21 44 | 18 29 | 23 44 | 1.79 | 1.41 | 1.24 |
| Turkish Natl. Obs. | 18 42 | 1 08 | 22 33 | 18 42 | 1 08 | 2.02 | 1.44 | 1.15 |
| South Africa | | | | | | | | |
| Suhora, Poland | 20 57 | 0 15 | 23 14 | 20 57 | 0 15 | 1.60 | 1.40 | 1.36 |
| Piszkesteto, Hungary | 20 38 | 0 35 | 23 15 | 20 38 | 0 35 | 1.65 | 1.40 | 1.32 |
| Bologna Uni. Obs., Italy | 20 40 | 1 41 | 23 49 | 20 40 | 1 41 | 1.76 | 1.40 | 1.26 |
| Obs. of Haute-Provence | 21 00 | 2 06 | 0 11 | 21 00 | 2 06 | 1.77 | 1.41 | 1.25 |
| Calar Alto, Spain | 20 35 | 2 57 | 0 24 | 20 35 | 2 57 | 2.00 | 1.44 | 1.16 |
| Teide, Tenerife | 21 18 | 4 47 | 1 40 | 21 18 | 4 47 | 2.40 | 1.53 | 1.07 |
| La Palma | 21 25 | 4 51 | 1 45 | 21 25 | 4 51 | 2.37 | 1.52 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 39 | 8 10 | 3 36 | 21 47 | 8 10 | 5.00 | 3.51 | 1.15 |
| Cerro Tololo | 0 28 | 9 59 | 5 16 | 23 21 | 9 59 | 5.00 | 4.54 | 1.26 |
| McDonald Observatory | 3 16 | 10 29 | 7 29 | 3 16 | 10 29 | 2.25 | 1.50 | 1.09 |
| Mount Lemmon, Arizona | 3 49 | 10 50 | 7 56 | 3 49 | 10 50 | 2.17 | 1.49 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | 6 11 | 14 25 | 10 54 | 6 11 | 14 25 | 2.89 | 1.66 | 1.03 |

| PG1605: 2002 May 16, Moon 16% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | 9 49 | 19 21 | 14 35 | 8 40 | 19 21 | 5.00 | 4.88 | 1.28 |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | 13 14 | 19 07 | 16 46 | 13 14 | 19 07 | 1.86 | 1.43 | 1.19 |
| Terskol Obs., Ukraine | 18 30 | 23 42 | 21 40 | 18 30 | 23 42 | 1.75 | 1.41 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | 20 41 | 0 33 | 23 11 | 20 41 | 0 33 | 1.62 | 1.40 | 1.32 |
| Bologna Uni. Obs., Italy | 20 42 | 1 39 | 23 45 | 20 42 | 1 39 | 1.72 | 1.41 | 1.26 |
| Obs. of Haute-Provence | 21 02 | 2 04 | 0 07 | 21 02 | 2 04 | 1.73 | 1.41 | 1.25 |
| Calar Alto, Spain | 20 36 | 2 56 | 0 20 | 20 36 | 2 56 | 1.94 | 1.45 | 1.16 |
| Teide, Tenerife | 21 18 | 4 46 | 1 36 | 21 18 | 4 46 | 2.30 | 1.55 | 1.07 |
| La Palma | 21 25 | 4 50 | 1 41 | 21 25 | 4 50 | 2.28 | 1.54 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 35 | 8 10 | 3 32 | 21 47 | 8 10 | 5.00 | 3.72 | 1.15 |
| Cerro Tololo | 0 24 | 9 59 | 5 12 | 23 20 | 9 59 | 5.00 | 4.89 | 1.26 |
| McDonald Observatory | 3 16 | 10 28 | 7 25 | 3 16 | 10 28 | 2.17 | 1.52 | 1.09 |
| Mount Lemmon, Arizona | 3 50 | 10 49 | 7 52 | 3 50 | 10 49 | 2.10 | 1.50 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 17, Moon 25% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 32 | 23 40 | 21 37 | 18 32 | 23 40 | 1.71 | 1.42 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | 20 43 | 0 30 | 23 07 | 20 43 | 0 30 | 1.59 | 1.40 | 1.32 |
| Bologna Uni. Obs., Italy | 20 44 | 1 38 | 23 41 | 20 44 | 1 38 | 1.68 | 1.42 | 1.26 |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | 21 19 | 4 45 | 1 32 | 21 19 | 4 45 | 2.22 | 1.57 | 1.07 |
| La Palma | 21 26 | 4 49 | 1 37 | 21 26 | 4 49 | 2.20 | 1.56 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 31 | 8 11 | 3 28 | 21 47 | 8 11 | 5.00 | 3.96 | 1.15 |
| Cerro Tololo | 0 20 | 9 57 | 5 09 | 23 20 | 10 00 | 5.00 | 5.00 | 1.26 |
| McDonald Observatory | 3 17 | 10 27 | 7 21 | 3 17 | 10 27 | 2.10 | 1.54 | 1.09 |
| Mount Lemmon, Arizona | 3 51 | 10 48 | 7 48 | 3 51 | 10 48 | 2.03 | 1.52 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 18, Moon 35% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 34 | 23 39 | 21 33 | 18 34 | 23 39 | 1.67 | 1.43 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | 20 46 | 0 27 | 23 03 | 20 46 | 0 27 | 1.56 | 1.41 | 1.32 |
| Bologna Uni. Obs., Italy | 20 46 | 1 36 | 23 37 | 20 46 | 1 36 | 1.65 | 1.42 | 1.26 |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | 21 20 | 4 45 | 1 28 | 21 20 | 4 45 | 2.14 | 1.59 | 1.07 |
| La Palma | 21 27 | 4 49 | 1 33 | 21 27 | 4 49 | 2.12 | 1.59 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 27 | 8 11 | 3 24 | 21 46 | 8 11 | 5.00 | 4.23 | 1.15 |
| Cerro Tololo | 0 16 | 9 53 | 5 05 | 23 19 | 10 00 | 5.00 | 5.00 | 1.26 |
| McDonald Observatory | 3 18 | 10 26 | 7 17 | 3 18 | 10 26 | 2.03 | 1.56 | 1.09 |
| Mount Lemmon, Arizona | 3 52 | 10 47 | 7 44 | 3 52 | 10 47 | 1.97 | 1.54 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 19, Moon 46% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | 18 36 | 23 37 | 21 29 | 18 36 | 23 37 | 1.64 | 1.44 | 1.24 |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | 20 49 | 0 25 | 22 59 | 20 49 | 0 25 | 1.54 | 1.41 | 1.32 |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | 21 21 | 4 44 | 1 24 | 21 21 | 4 44 | 2.07 | 1.62 | 1.07 |
| La Palma | 21 28 | 4 48 | 1 30 | 21 28 | 4 48 | 2.05 | 1.61 | 1.08 |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | 22 23 | 8 11 | 3 20 | 21 46 | 8 11 | 5.00 | 4.54 | 1.15 |
| Cerro Tololo | 0 13 | 9 49 | 5 01 | 23 19 | 10 01 | 5.00 | 5.00 | 1.26 |
| McDonald Observatory | 3 19 | 10 26 | 7 13 | 3 19 | 10 26 | 1.97 | 1.58 | 1.09 |
| Mount Lemmon, Arizona | 3 53 | 10 46 | 7 40 | 3 53 | 10 46 | 1.91 | 1.56 | 1.11 |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 20, Moon 57% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | | | | | | | | |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | | | | | | | | |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | 21 22 | 4 43 | 1 20 | 21 22 | 4 43 | 2.01 | 1.64 | 1.07 |
| La Palma | | | | | | | | |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | 0 09 | 9 45 | 4 57 | 23 18 | 10 01 | 5.00 | 5.00 | 1.26 |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | | | | | | | | |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |

| PG1605: 2002 May 21, Moon 69% full | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Site | Universal Time | | | | | Airmass | | |
| | f.v. | l.v. | meridian | eve. tw | morn. tw | rise | set | meridian |
| Siding Spring, Australia | | | | | | | | |
| Bohyunsan Obs., Korea | | | | | | | | |
| Beijing Observatory | | | | | | | | |
| Terskol Obs., Ukraine | | | | | | | | |
| Turkish Natl. Obs. | | | | | | | | |
| South Africa | | | | | | | | |
| Suhora, Poland | | | | | | | | |
| Piszkesteto, Hungary | | | | | | | | |
| Bologna Uni. Obs., Italy | | | | | | | | |
| Obs. of Haute-Provence | | | | | | | | |
| Calar Alto, Spain | | | | | | | | |
| Teide, Tenerife | | | | | | | | |
| La Palma | | | | | | | | |
| Nordic Optical Telescope | | | | | | | | |
| Itajuba, Brazil | | | | | | | | |
| Cerro Tololo | 0 05 | 9 41 | 4 53 | 23 18 | 10 02 | 5.00 | 5.00 | 1.26 |
| McDonald Observatory | | | | | | | | |
| Mount Lemmon, Arizona | | | | | | | | |
| Kitt Peak | | | | | | | | |
| Mauna Kea, Hawaii | | | | | | | | |