

2006

Moon Parallax and Semi-diameter

		Lower Limb																																			
		Altitude degrees																																			
		0		7		14		21		28		35		42		49		56		63		70		80		90											
		'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Jan 1	1	77.0 ⁻⁶	1	76.5 ⁻¹⁹	1	75.2 ⁻³²	1	73.0 ⁻⁴⁴	1	69.9 ⁻⁵⁵	1	66.0 ⁻⁶⁶	1	61.4 ⁻⁷⁵	1	56.2 ⁻⁸⁴	1	50.3 ⁻⁹¹	1	43.9 ⁻⁹⁷	1	37.2 ⁻¹⁰²	1	27.0 ⁻¹⁰⁵	0	16.5											
Jan 2	2	77.1 ⁻⁶	-1	76.7 ⁻¹⁹	-1	75.3 ⁻³²	-1	73.1 ⁻⁴⁴	-1	70.0 ⁻⁵⁵	-1	66.2 ⁻⁶⁶	-1	61.6 ⁻⁷⁵	-1	56.3 ⁻⁸⁴	-1	50.4 ⁻⁹¹	-1	44.0 ⁻⁹⁷	-1	37.2 ⁻¹⁰²	-1	27.0 ⁻¹⁰⁵	0	16.5											
Jan 3	3	77.0 ⁻⁶	-4	76.5 ⁻¹⁹	-4	75.2 ⁻³²	-4	72.9 ⁻⁴⁴	-4	69.9 ⁻⁵⁵	-3	66.0 ⁻⁶⁵	-3	61.4 ⁻⁷⁵	-3	56.2 ⁻⁸³	-3	50.3 ⁻⁹¹	-2	43.9 ⁻⁹⁶	-2	37.2 ⁻¹⁰²	-2	27.0 ⁻¹⁰⁵	-1	16.5											
Jan 4	4	76.5 ⁻⁶	-6	76.0 ⁻¹⁹	-5	74.7 ⁻³¹	-5	72.5 ⁻⁴³	-5	69.5 ⁻⁵⁵	-5	65.6 ⁻⁶⁵	-5	61.0 ⁻⁷⁴	-4	55.8 ⁻⁸³	-4	50.0 ⁻⁹⁰	-3	43.7 ⁻⁹⁶	-3	36.9 ⁻¹⁰¹	-2	26.8 ⁻¹⁰⁴	-2	16.4											
Jan 5	5	75.8 ⁻⁶	-7	75.4 ⁻¹⁹	-6	74.1 ⁻³¹	-6	71.9 ⁻⁴³	-6	68.8 ⁻⁵⁴	-6	65.0 ⁻⁶⁴	-5	60.5 ⁻⁷⁴	-5	55.3 ⁻⁸²	-5	49.6 ⁻⁸⁹	-4	43.3 ⁻⁹⁵	-3	36.6 ⁻¹⁰⁰	-3	26.6 ⁻¹⁰³	-2	16.2											
Jan 6	6	75.0 ⁻⁶	-7	74.6 ⁻¹⁹	-7	73.3 ⁻³¹	-7	71.1 ⁻⁴²	-6	68.1 ⁻⁵³	-6	64.4 ⁻⁶⁴	-6	59.9 ⁻⁷³	-5	54.8 ⁻⁸¹	-5	49.0 ⁻⁸⁸	-4	42.8 ⁻⁹⁴	-4	36.2 ⁻⁹⁹	-3	26.3 ⁻¹⁰²	-2	16.1											
Jan 7	7	74.2 ⁻⁶	-7	73.8 ⁻¹⁸	-7	72.5 ⁻³⁰	-7	70.3 ⁻⁴²	-6	67.4 ⁻⁵³	-6	63.6 ⁻⁶³	-6	59.2 ⁻⁷²	-5	54.1 ⁻⁸⁰	-5	48.5 ⁻⁸⁷	-4	42.4 ⁻⁹³	-4	35.8 ⁻⁹⁸	-3	26.0 ⁻¹⁰¹	-2	15.9											
Jan 8	8	73.4 ⁻⁶	-7	72.9 ⁻¹⁸	-6	71.6 ⁻³⁰	-6	69.5 ⁻⁴¹	-6	66.6 ⁻⁵²	-6	62.9 ⁻⁶²	-5	58.6 ⁻⁷¹	-5	53.5 ⁻⁷⁹	-5	47.9 ⁻⁸⁶	-4	41.9 ⁻⁹²	-3	35.4 ⁻⁹⁷	-3	25.7 ⁻¹⁰⁰	-2	15.7											
Jan 9	9	72.6 ⁻⁶	-6	72.1 ⁻¹⁸	-6	70.9 ⁻³⁰	-6	68.8 ⁻⁴¹	-6	65.9 ⁻⁵²	-5	62.3 ⁻⁶²	-5	57.9 ⁻⁷¹	-5	53.0 ⁻⁷⁹	-4	47.4 ⁻⁸⁵	-4	41.4 ⁻⁹¹	-3	35.0 ⁻⁹⁶	-3	25.4 ⁻⁹⁹	-2	15.5											
Jan 10	10	71.8 ⁻⁶	-5	71.4 ⁻¹⁸	-5	70.2 ⁻²⁹	-5	68.1 ⁻⁴¹	-5	65.2 ⁻⁵¹	-5	61.6 ⁻⁶¹	-5	57.3 ⁻⁷⁰	-4	52.4 ⁻⁷⁸	-4	47.0 ⁻⁸⁴	-3	41.0 ⁻⁹⁰	-3	34.7 ⁻⁹⁵	-2	25.2 ⁻⁹⁸	-2	15.4											
Jan 11	11	71.2 ⁻⁶	-5	70.8 ⁻¹⁸	-5	69.5 ⁻²⁹	-5	67.5 ⁻⁴⁰	-5	64.6 ⁻⁵¹	-4	61.1 ⁻⁶⁰	-4	56.8 ⁻⁶⁹	-4	51.9 ⁻⁷⁷	-3	46.5 ⁻⁸⁴	-3	40.6 ⁻⁸⁹	-3	34.4 ⁻⁹⁴	-2	25.0 ⁻⁹⁷	-1	15.2											
Jan 12	12	70.6 ⁻⁶	-4	70.2 ⁻¹⁸	-4	68.9 ⁻²⁹	-4	66.9 ⁻⁴⁰	-4	64.1 ⁻⁵⁰	-4	60.6 ⁻⁶⁰	-4	56.3 ⁻⁶⁹	-3	51.5 ⁻⁷⁶	-3	46.1 ⁻⁸³	-3	40.3 ⁻⁸⁸	-2	34.1 ⁻⁹³	-2	24.8 ⁻⁹⁶	-1	15.1											
Jan 13	13	70.1 ⁻⁶	-4	69.7 ⁻¹⁷	-4	68.4 ⁻²⁹	-4	66.4 ⁻⁴⁰	-3	63.6 ⁻⁵⁰	-3	60.1 ⁻⁶⁰	-3	55.9 ⁻⁶⁸	-3	51.1 ⁻⁷⁶	-3	45.8 ⁻⁸²	-2	40.0 ⁻⁸⁸	-2	33.8 ⁻⁹²	-2	24.6 ⁻⁹⁵	-1	15.0											
Jan 14	14	69.6 ⁻⁶	-3	69.2 ⁻¹⁷	-3	68.0 ⁻²⁹	-3	66.0 ⁻³⁹	-3	63.2 ⁻⁵⁰	-3	59.7 ⁻⁵⁹	-3	55.6 ⁻⁶⁸	-2	50.8 ⁻⁷⁶	-2	45.5 ⁻⁸²	-2	39.7 ⁻⁸⁷	-2	33.6 ⁻⁹²	-1	24.4 ⁻⁹⁵	-1	14.9											
Jan 15	15	69.3 ⁻⁶	-2	68.8 ⁻¹⁷	-2	67.6 ⁻²⁸	-2	65.6 ⁻³⁹	-2	62.9 ⁻⁵⁰	-2	59.4 ⁻⁵⁹	-2	55.3 ⁻⁶⁸	-2	50.5 ⁻⁷⁵	-2	45.3 ⁻⁸²	-1	39.5 ⁻⁸⁷	-1	33.4 ⁻⁹¹	-1	24.3 ⁻⁹⁴	-1	14.8											
Jan 16	16	69.0 ⁻⁶	-1	68.6 ⁻¹⁷	-1	67.4 ⁻²⁸	-1	65.4 ⁻³⁹	-1	62.6 ⁻⁴⁹	-1	59.2 ⁻⁵⁹	-1	55.0 ⁻⁶⁷	-1	50.3 ⁻⁷⁵	-1	45.1 ⁻⁸¹	-1	39.4 ⁻⁸⁷	-1	33.3 ⁻⁹¹	-1	24.2 ⁻⁹⁴	0	14.8											
Jan 17	17	68.8 ⁻⁶	0	68.4 ⁻¹⁷	0	67.2 ⁻²⁸	0	65.2 ⁻³⁹	0	62.5 ⁻⁴⁹	0	59.0 ⁻⁵⁹	0	54.9 ⁻⁶⁷	0	50.2 ⁻⁷⁵	0	45.0 ⁻⁸¹	0	39.3 ⁻⁸⁶	0	33.2 ⁻⁹¹	0	24.1 ⁻⁹⁴	0	14.7											
Jan 18	18	68.8 ⁻⁶	1	68.3 ⁻¹⁷	1	67.1 ⁻²⁸	1	65.2 ⁻³⁹	1	62.4 ⁻⁴⁹	1	59.0 ⁻⁵⁹	1	54.9 ⁻⁶⁷	1	50.2 ⁻⁷⁵	1	44.9 ⁻⁸¹	1	39.3 ⁻⁸⁶	1	33.2 ⁻⁹¹	0	24.1 ⁻⁹⁴	0	14.7											
Jan 19	19	68.9 ⁻⁶	2	68.5 ⁻¹⁷	2	67.3 ⁻²⁸	2	65.3 ⁻³⁹	2	62.5 ⁻⁴⁹	2	59.1 ⁻⁵⁹	2	55.0 ⁻⁶⁷	2	50.3 ⁻⁷⁵	2	45.0 ⁻⁸²	1	39.3 ⁻⁸⁷	1	33.3 ⁻⁹¹	1	24.1 ⁻⁹⁴	1	14.7											
Jan 20	20	69.2 ⁻⁶	4	68.8 ⁻¹⁷	4	67.5 ⁻²⁹	4	65.5 ⁻³⁹	4	62.8 ⁻⁵⁰	4	59.3 ⁻⁵⁹	3	55.2 ⁻⁶⁸	3	50.5 ⁻⁷⁵	3	45.2 ⁻⁸²	2	39.5 ⁻⁸⁷	2	33.4 ⁻⁹²	2	24.2 ⁻⁹⁵	1	14.8											
Jan 21	21	69.6 ⁻⁶	6	69.2 ⁻¹⁷	6	68.0 ⁻²⁹	6	66.0 ⁻⁴⁰	5	63.2 ⁻⁵⁰	5	59.7 ⁻⁶⁰	5	55.6 ⁻⁶⁸	4	50.8 ⁻⁷⁶	4	45.5 ⁻⁸³	4	39.8 ⁻⁸⁸	3	33.6 ⁻⁹³	2	24.4 ⁻⁹⁶	2	14.9											
Jan 22	22	70.3 ⁻⁶	7	69.9 ⁻¹⁸	7	68.7 ⁻²⁹	7	66.7 ⁻⁴⁰	7	63.9 ⁻⁵¹	7	60.3 ⁻⁶⁰	6	56.1 ⁻⁶⁹	6	51.3 ⁻⁷⁷	5	46.0 ⁻⁸⁴	5	40.2 ⁻⁸⁹	4	34.0 ⁻⁹⁴	3	24.7 ⁻⁹⁷	2	15.1											
Jan 23	23	71.2 ⁻⁶	9	70.8 ⁻¹⁸	9	69.6 ⁻³⁰	8	67.5 ⁻⁴¹	8	64.7 ⁻⁵¹	8	61.1 ⁻⁶¹	7	56.8 ⁻⁷⁰	7	52.0 ⁻⁷⁸	6	46.5 ⁻⁸⁵	5	40.7 ⁻⁹⁰	5	34.4 ⁻⁹⁵	4	25.0 ⁻⁹⁸	2	15.3											
Jan 24	24	72.3 ⁻⁶	10	71.9 ⁻¹⁸	10	70.6 ⁻³⁰	10	68.5 ⁻⁴¹	9	65.6 ⁻⁵²	9	62.0 ⁻⁶²	8	57.7 ⁻⁷¹	8	52.7 ⁻⁷⁹	7	47.2 ⁻⁸⁶	6	41.3 ⁻⁹²	5	34.9 ⁻⁹⁶	4	25.3 ⁻⁹⁹	3	15.5											
Jan 25	25	73.5 ⁻⁶	10	73.0 ⁻¹⁹	10	71.8 ⁻³¹	10	69.6 ⁻⁴²	10	66.7 ⁻⁵³	9	63.0 ⁻⁶³	9	58.6 ⁻⁷²	8	53.6 ⁻⁸¹	7	48.0 ⁻⁸⁷	6	41.9 ⁻⁹³	5	35.5 ⁻⁹⁸	4	25.8 ⁻¹⁰¹	3	15.7											
Jan 26	26	74.7 ⁻⁶	10	74.3 ⁻¹⁹	10	73.0 ⁻³¹	9	70.8 ⁻⁴³	9	67.8 ⁻⁵⁴	9	64.1 ⁻⁶⁴	8	59.6 ⁻⁷⁴	8	54.5 ⁻⁸²	7	48.8 ⁻⁸⁹	6	42.6 ⁻⁹⁵	5	36.1 ⁻¹⁰⁰	4	26.2 ⁻¹⁰³	3	16.0											
Jan 27	27	75.9 ⁻⁶	8	75.4 ⁻¹⁹	8	74.1 ⁻³¹	8	71.9 ⁻⁴³	8	68.9 ⁻⁵⁵	7	65.1 ⁻⁶⁵	7	60.6 ⁻⁷⁵	6	55.4 ⁻⁸³	6	49.6 ⁻⁹⁰	5	43.3 ⁻⁹⁶	4	36.6 ⁻¹⁰¹	4	26.6 ⁻¹⁰⁴	2	16.2											
Jan 28	28	76.9 ⁻⁶	6	76.4 ⁻¹⁹	6	75.1 ⁻³²	6	72.9 ⁻⁴⁴	6	69.8 ⁻⁵⁵	5	66.0 ⁻⁶⁶	5	61.4 ⁻⁷⁶	5	56.1 ⁻⁸⁴	4	50.3 ⁻⁹¹	4	43.9 ⁻⁹⁷	3	37.1 ⁻¹⁰²	3	27.0 ⁻¹⁰⁵	2	16.5											
Jan 29	29	77.6 ⁻⁷	3	77.2 ⁻¹⁹	3	75.8 ⁻³²	3	73.6 ⁻⁴⁴	3	70.5 ⁻⁵⁶	3	66.6 ⁻⁶⁶	2	62.0 ⁻⁷⁶	2	56.6 ⁻⁸⁵	2	50.7 ⁻⁹²	2	44.3 ⁻⁹⁸	2	37.5 ⁻¹⁰³	1	27.2 ⁻¹⁰⁶	1	16.6											
Jan 30	30	78.0 ⁻⁷	-1	77.5 ⁻¹⁹	-1	76.1 ⁻³²	-1	73.9 ⁻⁴⁴	-1	70.8 ⁻⁵⁶	-1	66.9 ⁻⁶⁷	-1	62.2 ⁻⁷⁶	0	56.9 ⁻⁸⁵	0	51.0 ⁻⁹²	0	44.5 ⁻⁹⁸	0	37.6 ⁻¹⁰³	0	27.3 ⁻¹⁰⁶	0	16.7											
Jan 31	31	77.9 ⁻⁶	-4	77.4 ⁻¹⁹	-4	76.1 ⁻³²	-4	73.8 ⁻⁴⁴	-4	70.7 ⁻⁵⁶	-3	66.8 ⁻⁶⁶	-3	62.2 ⁻⁷⁶	-3	56.8 ⁻⁸⁴	-3	50.9 ⁻⁹²	-2	44.5 ⁻⁹⁸	-2	37.6 ⁻¹⁰³	-2	27.3 ⁻¹⁰⁶	-1	16.7											
Feb 1	1	77.4 ⁻⁶	-7	77.0 ⁻¹⁹	-6	75.6 ⁻³²	-6	73.4 ⁻⁴⁴	-6	70.3 ⁻⁵⁵	-6	66.4 ⁻⁶⁶	-5	61.8 ⁻⁷⁵	-5	56.5 ⁻⁸⁴	-5	50.6 ⁻⁹¹	-4	44.2 ⁻⁹⁷	-3	37.4 ⁻¹⁰²	-3	27.1 ⁻¹⁰⁵	-2	16.6											
Feb 2	2	76.6 ⁻⁶	-8	76.2 ⁻¹⁹	-8	74.8 ⁻³¹	-8	72.6 ⁻⁴³	-8	69.6 ⁻⁵⁵	-7	65.7 ⁻⁶⁵	-7	61.2 ⁻⁷⁴	-6	55.9 ⁻⁸³	-6	50.1 ⁻⁹⁰	-5	43.8 ⁻⁹⁶	-4	37.0 ⁻¹⁰¹	-3	26.9 ⁻¹⁰⁴	-2	16.4											
Feb 3	3	75.6 ⁻⁶	-9	75.2 ⁻¹⁹	-9	73.9 ⁻³¹	-9	71.7 ⁻⁴³	-8	68.7 ⁻⁵⁴	-8	64.9 ⁻⁶⁴	-8	60.4 ⁻⁷³	-7	55.2 ⁻⁸²	-6	49.4 ⁻⁸⁹	-6	43.2 ⁻⁹⁴	-5	36.5 ⁻⁹⁹	-4	26.5 ⁻¹⁰²	-3	16.2											
Feb 4	4	74.5 ⁻⁶	-9	74.1 ⁻¹⁸	-9	72.8 ⁻³¹	-9	70.6 ⁻⁴²	-9	67.7 ⁻⁵³	-8	63.9 ⁻⁶³	-8	59.5 ⁻⁷²	-7	54.4 ⁻⁸⁰	-6	48.7 ⁻⁸⁷	-6	42.6 ⁻⁹³	-5	36.0 ⁻⁹⁸	-4	26.1 ⁻¹⁰¹	-3	16.0											
Feb 5	5	73.4 ⁻⁶	-9	73.0 ⁻¹⁸	-8	71.7 ⁻³⁰	-8	69.6 ⁻⁴¹	-8	66.7 ⁻⁵²	-8	63.0 ⁻⁶²	-7	58.6 ⁻⁷¹	-7	53.6 ⁻⁷⁹	-6	48.0 ⁻⁸⁶	-5	41.9 ⁻⁹²	-5	35.5 ⁻⁹⁶	-4	25.7 ⁻¹⁰⁰	-2	15.7											
Feb 6	6	72.4 ⁻⁶	-8	72.0 ⁻¹⁸	-8	70.7 ⁻³⁰	-7	68.6 ⁻⁴¹	-7	65.7 ⁻⁵²	-7	62.1 ⁻⁶¹	-6	57.8 ⁻⁷⁰	-6	52.8 ⁻⁷⁸	-5	47.3 ⁻⁸⁵	-5	41.3 ⁻⁹⁰	-4	35.0 ⁻⁹⁵	-3	25.4 ⁻⁹⁸	-2	15.5											
Feb 7	7	71.5 ⁻⁶	-7	71.1 ⁻¹⁸	-6	69.8 ⁻²⁹	-6	67.8 ⁻⁴⁰	-6	64.9 ⁻⁵¹	-6	61.3 ⁻⁶¹	-5	57.1 ⁻⁷⁰	-5	52.2 ⁻⁷⁷	-5	46.7 ⁻⁸⁴	-4	40.8 ⁻⁸⁹	-3	34.5 ⁻⁹⁴	-3	25.1 ⁻⁹⁷	-2	15.3											
Feb 8	8	70.7 ⁻⁶	-5	70.3 ⁻¹⁸	-5	69.0 ⁻²⁹	-5	67.0 ⁻⁴⁰	-5	64.2 ⁻⁵⁰	-5	60.6 ⁻⁶⁰	-4	56.4 ⁻⁶⁹	-4	51.6 ⁻⁷⁷	-4	46.2 ⁻⁸³	-3	40.4 ⁻⁸⁸	-3	34.1 ⁻⁹³	-2	24.8 ⁻⁹⁶	-2	15.1											
Feb 9	9	70.1 ⁻⁶	-4	69.6 ⁻¹⁷	-4	68.4 ⁻²⁹	-4	66.4 ⁻⁴⁰	-4	63.6 ⁻⁵⁰	-4	60.1 ⁻⁶⁰	-4	55.9 ⁻⁶⁸	-3	51.1 ⁻⁷⁶	-3	45.8 ⁻⁸²	-3	40.0 ⁻⁸⁸	-2	33.8 ⁻⁹²	-2	24.6 ⁻⁹⁵	-1	15.0											
Feb 10	10	69.5 ⁻⁶	-3	69.1 ⁻¹⁷	-3	67.9 ⁻²⁹	-3	65.9 ⁻³⁹	-3	63.1 ⁻⁵⁰																											

		Upper Limb												
		Altitude degrees												
		0	7	14	21	28	35	42	49	56	63	70	80	90
		' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t
Jan 1		44.0 ⁻⁶ ₁	43.6 ⁻¹⁹ ₁	42.2 ⁻³² ₁	40.0 ⁻⁴⁴ ₁	36.9 ⁻⁵⁵ ₁	33.1 ⁻⁶⁶ ₁	28.5 ⁻⁷⁵ ₁	23.2 ⁻⁸⁴ ₁	17.3 ⁻⁹¹ ₁	11.0 ⁻⁹⁷ ₁	4.2 ⁻¹⁰² ₁	-6.0 ⁻¹⁰⁵ ₀	-16.5
Jan 2		44.1 ⁻⁶ ₋₁	43.6 ⁻¹⁹ ₋₁	42.3 ⁻³² ₋₁	40.1 ⁻⁴⁴ ₋₁	37.0 ⁻⁵⁵ ₋₁	33.1 ⁻⁶⁶ ₋₁	28.5 ⁻⁷⁵ ₋₁	23.2 ⁻⁸⁴ ₋₁	17.4 ⁻⁹¹ ₋₁	11.0 ⁻⁹⁷ ₋₁	4.2 ⁻¹⁰² ₋₁	-6.0 ⁻¹⁰⁵ ₀	-16.5
Jan 3		44.0 ⁻⁶ ₋₄	43.5 ⁻¹⁹ ₋₄	42.2 ⁻³² ₋₄	40.0 ⁻⁴⁴ ₋₄	36.9 ⁻⁵⁵ ₋₃	33.1 ⁻⁶⁵ ₋₃	28.5 ⁻⁷⁵ ₋₃	23.2 ⁻⁸³ ₋₃	17.3 ⁻⁹¹ ₋₂	11.0 ⁻⁹⁶ ₋₂	4.2 ⁻¹⁰² ₋₂	-6.0 ⁻¹⁰⁵ ₋₁	-16.5
Jan 4		43.7 ⁻⁶ ₋₆	43.3 ⁻¹⁹ ₋₅	41.9 ⁻³¹ ₋₅	39.7 ⁻⁴³ ₋₅	36.7 ⁻⁵⁵ ₋₅	32.9 ⁻⁶⁵ ₋₅	28.3 ⁻⁷⁴ ₋₄	23.1 ⁻⁸³ ₋₄	17.2 ⁻⁹⁰ ₋₃	10.9 ⁻⁹⁶ ₋₃	4.2 ⁻¹⁰¹ ₋₂	-5.9 ⁻¹⁰⁴ ₋₂	-16.4
Jan 5		43.3 ⁻⁶ ₋₇	42.9 ⁻¹⁹ ₋₆	41.6 ⁻³¹ ₋₆	39.4 ⁻⁴³ ₋₆	36.4 ⁻⁵⁴ ₋₆	32.6 ⁻⁶⁴ ₋₅	28.0 ⁻⁷⁴ ₋₅	22.9 ⁻⁸² ₋₅	17.1 ⁻⁸⁹ ₋₄	10.8 ⁻⁹⁵ ₋₃	4.1 ⁻¹⁰⁰ ₋₃	-5.9 ⁻¹⁰³ ₋₂	-16.2
Jan 6		42.9 ⁻⁶ ₋₇	42.5 ⁻¹⁹ ₋₇	41.1 ⁻³¹ ₋₇	39.0 ⁻⁴² ₋₆	36.0 ⁻⁵³ ₋₆	32.2 ⁻⁶⁴ ₋₆	27.8 ⁻⁷³ ₋₅	22.6 ⁻⁸¹ ₋₅	16.9 ⁻⁸⁸ ₋₄	10.7 ⁻⁹⁴ ₋₄	4.1 ⁻⁹⁹ ₋₃	-5.8 ⁻¹⁰² ₋₂	-16.1
Jan 7		42.4 ⁻⁶ ₋₇	42.0 ⁻¹⁸ ₋₇	40.7 ⁻³⁰ ₋₇	38.5 ⁻⁴² ₋₆	35.6 ⁻⁵³ ₋₆	31.9 ⁻⁶³ ₋₆	27.4 ⁻⁷² ₋₅	22.4 ⁻⁸⁰ ₋₅	16.7 ⁻⁸⁷ ₋₄	10.6 ⁻⁹³ ₋₄	4.1 ⁻⁹⁸ ₋₃	-5.8 ⁻¹⁰¹ ₋₂	-15.9
Jan 8		41.9 ⁻⁶ ₋₇	41.5 ⁻¹⁸ ₋₆	40.2 ⁻³⁰ ₋₆	38.1 ⁻⁴¹ ₋₆	35.2 ⁻⁵² ₋₆	31.5 ⁻⁶² ₋₅	27.1 ⁻⁷¹ ₋₅	22.1 ⁻⁷⁹ ₋₅	16.5 ⁻⁸⁶ ₋₄	10.5 ⁻⁹² ₋₃	4.0 ⁻⁹⁷ ₋₃	-5.7 ⁻¹⁰⁰ ₋₂	-15.7
Jan 9		41.5 ⁻⁶ ₋₆	41.1 ⁻¹⁸ ₋₆	39.8 ⁻³⁰ ₋₆	37.7 ⁻⁴¹ ₋₆	34.8 ⁻⁵² ₋₅	31.2 ⁻⁶² ₋₅	26.8 ⁻⁷¹ ₋₅	21.9 ⁻⁷⁹ ₋₄	16.3 ⁻⁸⁵ ₋₄	10.3 ⁻⁹¹ ₋₃	4.0 ⁻⁹⁶ ₋₃	-5.6 ⁻⁹⁹ ₋₂	-15.5
Jan 10		41.1 ⁻⁶ ₋₅	40.7 ⁻¹⁸ ₋₅	39.4 ⁻²⁹ ₋₅	37.3 ⁻⁴¹ ₋₅	34.5 ⁻⁵¹ ₋₅	30.9 ⁻⁶¹ ₋₅	26.6 ⁻⁷⁰ ₋₄	21.7 ⁻⁷⁸ ₋₄	16.2 ⁻⁸⁴ ₋₃	10.2 ⁻⁹⁰ ₋₃	3.9 ⁻⁹⁵ ₋₂	-5.6 ⁻⁹⁸ ₋₂	-15.4
Jan 11		40.7 ⁻⁶ ₋₅	40.3 ⁻¹⁸ ₋₅	39.0 ⁻²⁹ ₋₅	37.0 ⁻⁴⁰ ₋₅	34.1 ⁻⁵¹ ₋₄	30.6 ⁻⁶⁰ ₋₄	26.3 ⁻⁶⁹ ₋₄	21.5 ⁻⁷⁷ ₋₃	16.0 ⁻⁸⁴ ₋₃	10.2 ⁻⁸⁹ ₋₃	3.9 ⁻⁹⁴ ₋₂	-5.5 ⁻⁹⁷ ₋₁	-15.2
Jan 12		40.4 ⁻⁶ ₋₄	39.9 ⁻¹⁸ ₋₄	38.7 ⁻²⁹ ₋₄	36.7 ⁻⁴⁰ ₋₄	33.9 ⁻⁵⁰ ₋₄	30.3 ⁻⁶⁰ ₋₄	26.1 ⁻⁶⁹ ₋₃	21.3 ⁻⁷⁶ ₋₃	15.9 ⁻⁸³ ₋₃	10.1 ⁻⁸⁸ ₋₂	3.9 ⁻⁹³ ₋₂	-5.5 ⁻⁹⁶ ₋₁	-15.1
Jan 13		40.1 ⁻⁶ ₋₄	39.7 ⁻¹⁷ ₋₄	38.4 ⁻²⁹ ₋₄	36.4 ⁻⁴⁰ ₋₃	33.6 ⁻⁵⁰ ₋₃	30.1 ⁻⁶⁰ ₋₃	25.9 ⁻⁶⁸ ₋₃	21.1 ⁻⁷⁶ ₋₃	15.8 ⁻⁸² ₋₂	10.0 ⁻⁸⁸ ₋₂	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-15.0
Jan 14		39.8 ⁻⁶ ₋₃	39.4 ⁻¹⁷ ₋₃	38.2 ⁻²⁹ ₋₃	36.2 ⁻³⁹ ₋₃	33.4 ⁻⁵⁰ ₋₃	29.9 ⁻⁵⁹ ₋₃	25.7 ⁻⁶⁸ ₋₂	21.0 ⁻⁷⁶ ₋₂	15.7 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₁	-5.4 ⁻⁹⁵ ₋₁	-14.9
Jan 15		39.6 ⁻⁶ ₋₂	39.2 ⁻¹⁷ ₋₂	38.0 ⁻²⁸ ₋₂	36.0 ⁻³⁹ ₋₂	33.2 ⁻⁵⁰ ₋₂	29.7 ⁻⁵⁹ ₋₂	25.6 ⁻⁶⁸ ₋₂	20.9 ⁻⁷⁵ ₋₂	15.6 ⁻⁸² ₋₁	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₋₁	-14.8
Jan 16		39.4 ⁻⁶ ₋₁	39.0 ⁻¹⁷ ₋₁	37.8 ⁻²⁸ ₋₁	35.8 ⁻³⁹ ₋₁	33.1 ⁻⁴⁹ ₋₁	29.6 ⁻⁵⁹ ₋₁	25.5 ⁻⁶⁷ ₋₁	20.8 ⁻⁷⁵ ₋₁	15.5 ⁻⁸¹ ₋₁	9.8 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₀	-14.8
Jan 17		39.3 ⁻⁶ ₀	38.9 ⁻¹⁷ ₀	37.7 ⁻²⁸ ₀	35.7 ⁻³⁹ ₀	33.0 ⁻⁴⁹ ₀	29.6 ⁻⁵⁹ ₀	25.4 ⁻⁶⁷ ₀	20.7 ⁻⁷⁵ ₀	15.5 ⁻⁸¹ ₀	9.8 ⁻⁸⁶ ₀	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7
Jan 18		39.3 ⁻⁶ ₁	38.9 ⁻¹⁷ ₁	37.7 ⁻²⁸ ₁	35.7 ⁻³⁹ ₁	33.0 ⁻⁴⁹ ₁	29.5 ⁻⁵⁹ ₁	25.4 ⁻⁶⁷ ₁	20.7 ⁻⁷⁵ ₁	15.5 ⁻⁸¹ ₁	9.8 ⁻⁸⁶ ₁	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7
Jan 19		39.4 ⁻⁶ ₂	39.0 ⁻¹⁷ ₂	37.8 ⁻²⁸ ₂	35.8 ⁻³⁹ ₂	33.0 ⁻⁴⁹ ₂	29.6 ⁻⁵⁹ ₂	25.5 ⁻⁶⁷ ₂	20.8 ⁻⁷⁵ ₂	15.5 ⁻⁸² ₁	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	-5.3 ⁻⁹⁴ ₁	-14.7
Jan 20		39.5 ⁻⁶ ₄	39.1 ⁻¹⁷ ₄	37.9 ⁻²⁹ ₄	35.9 ⁻³⁹ ₄	33.2 ⁻⁵⁰ ₄	29.7 ⁻⁵⁹ ₃	25.6 ⁻⁶⁸ ₃	20.8 ⁻⁷⁵ ₃	15.6 ⁻⁸² ₂	9.9 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₂	-5.4 ⁻⁹⁵ ₁	-14.8
Jan 21		39.8 ⁻⁶ ₆	39.4 ⁻¹⁷ ₆	38.2 ⁻²⁹ ₆	36.2 ⁻⁴⁰ ₅	33.4 ⁻⁵⁰ ₅	29.9 ⁻⁶⁰ ₅	25.8 ⁻⁶⁸ ₄	21.0 ⁻⁷⁶ ₄	15.7 ⁻⁸³ ₄	9.9 ⁻⁸⁸ ₃	3.8 ⁻⁹³ ₂	-5.4 ⁻⁹⁶ ₂	-14.9
Jan 22		40.2 ⁻⁶ ₇	39.8 ⁻¹⁸ ₇	38.6 ⁻²⁹ ₇	36.5 ⁻⁴⁰ ₇	33.7 ⁻⁵¹ ₇	30.2 ⁻⁶⁰ ₆	26.0 ⁻⁶⁹ ₆	21.2 ⁻⁷⁷ ₅	15.8 ⁻⁸⁴ ₅	10.0 ⁻⁸⁹ ₄	3.8 ⁻⁹⁴ ₃	-5.5 ⁻⁹⁷ ₂	-15.1
Jan 23		40.7 ⁻⁶ ₉	40.3 ⁻¹⁸ ₉	39.1 ⁻³⁰ ₈	37.0 ⁻⁴¹ ₈	34.2 ⁻⁵¹ ₈	30.6 ⁻⁶¹ ₇	26.3 ⁻⁷⁰ ₇	21.5 ⁻⁷⁸ ₆	16.0 ⁻⁸⁵ ₅	10.2 ⁻⁹⁰ ₅	3.9 ⁻⁹⁵ ₄	-5.5 ⁻⁹⁸ ₂	-15.3
Jan 24		41.3 ⁻⁶ ₁₀	40.9 ⁻¹⁸ ₁₀	39.6 ⁻³⁰ ₁₀	37.5 ⁻⁴¹ ₉	34.7 ⁻⁵² ₉	31.0 ⁻⁶² ₈	26.7 ⁻⁷¹ ₈	21.8 ⁻⁷⁹ ₇	16.3 ⁻⁸⁶ ₆	10.3 ⁻⁹² ₅	3.9 ⁻⁹⁶ ₄	-5.6 ⁻⁹⁹ ₃	-15.5
Jan 25		42.0 ⁻⁶ ₁₀	41.6 ⁻¹⁹ ₁₀	40.3 ⁻³¹ ₁₀	38.2 ⁻⁴² ₁₀	35.2 ⁻⁵³ ₉	31.6 ⁻⁶³ ₉	27.2 ⁻⁷² ₈	22.1 ⁻⁸¹ ₇	16.6 ⁻⁸⁷ ₆	10.5 ⁻⁹³ ₅	4.0 ⁻⁹⁸ ₄	-5.7 ⁻¹⁰¹ ₃	-15.7
Jan 26		42.7 ⁻⁶ ₁₀	42.3 ⁻¹⁹ ₁₀	41.0 ⁻³¹ ₉	38.8 ⁻⁴³ ₉	35.8 ⁻⁵⁴ ₉	32.1 ⁻⁶⁴ ₈	27.6 ⁻⁷⁴ ₈	22.5 ⁻⁸² ₇	16.8 ⁻⁸⁹ ₆	10.7 ⁻⁹⁵ ₅	4.1 ⁻¹⁰⁰ ₄	-5.8 ⁻¹⁰³ ₃	-16.0
Jan 27		43.4 ⁻⁶ ₈	42.9 ⁻¹⁹ ₈	41.6 ⁻³¹ ₈	39.4 ⁻⁴³ ₈	36.4 ⁻⁵⁵ ₇	32.6 ⁻⁶⁵ ₇	28.1 ⁻⁷⁵ ₆	22.9 ⁻⁸³ ₆	17.1 ⁻⁹⁰ ₅	10.8 ⁻⁹⁶ ₄	4.1 ⁻¹⁰¹ ₄	-5.9 ⁻¹⁰⁴ ₂	-16.2
Jan 28		44.0 ⁻⁶ ₆	43.5 ⁻¹⁹ ₆	42.2 ⁻³² ₆	39.9 ⁻⁴⁴ ₆	36.9 ⁻⁵⁵ ₅	33.0 ⁻⁶⁶ ₅	28.4 ⁻⁷⁶ ₅	23.2 ⁻⁸⁴ ₄	17.3 ⁻⁹¹ ₄	11.0 ⁻⁹⁷ ₃	4.2 ⁻¹⁰² ₃	-6.0 ⁻¹⁰⁵ ₂	-16.5
Jan 29		44.4 ⁻⁷ ₃	43.9 ⁻¹⁹ ₃	42.6 ⁻³² ₃	40.3 ⁻⁴⁴ ₃	37.2 ⁻⁵⁶ ₃	33.3 ⁻⁶⁶ ₂	28.7 ⁻⁷⁶ ₂	23.4 ⁻⁸⁵ ₂	17.5 ⁻⁹² ₂	11.1 ⁻⁹⁸ ₂	4.2 ⁻¹⁰³ ₁	-6.0 ⁻¹⁰⁶ ₁	-16.6
Jan 30		44.6 ⁻⁷ ₋₁	44.1 ⁻¹⁹ ₋₁	42.8 ⁻³² ₋₁	40.5 ⁻⁴⁴ ₋₁	37.4 ⁻⁵⁶ ₋₁	33.5 ⁻⁶⁷ ₋₁	28.8 ⁻⁷⁶ ₀	23.5 ⁻⁸⁵ ₀	17.6 ⁻⁹² ₀	11.1 ⁻⁹⁸ ₀	4.3 ⁻¹⁰³ ₀	-6.1 ⁻¹⁰⁶ ₀	-16.7
Jan 31		44.5 ⁻⁶ ₋₄	44.1 ⁻¹⁹ ₋₄	42.7 ⁻³² ₋₄	40.5 ⁻⁴⁴ ₋₄	37.4 ⁻⁵⁶ ₋₃	33.5 ⁻⁶⁶ ₋₃	28.8 ⁻⁷⁶ ₋₃	23.5 ⁻⁸⁴ ₋₃	17.5 ⁻⁹² ₋₂	11.1 ⁻⁹⁸ ₋₂	4.3 ⁻¹⁰³ ₋₂	-6.1 ⁻¹⁰⁶ ₋₁	-16.7
Feb 1		44.3 ⁻⁶ ₋₇	43.8 ⁻¹⁹ ₋₆	42.5 ⁻³² ₋₆	40.2 ⁻⁴⁴ ₋₆	37.1 ⁻⁵⁵ ₋₆	33.3 ⁻⁶⁶ ₋₅	28.6 ⁻⁷⁵ ₋₅	23.3 ⁻⁸⁴ ₋₅	17.4 ⁻⁹¹ ₋₄	11.0 ⁻⁹⁷ ₋₃	4.2 ⁻¹⁰² ₋₃	-6.0 ⁻¹⁰⁵ ₋₂	-16.6
Feb 2		43.8 ⁻⁶ ₋₈	43.4 ⁻¹⁹ ₋₈	42.0 ⁻³¹ ₋₈	39.8 ⁻⁴³ ₋₈	36.8 ⁻⁵⁵ ₋₇	32.9 ⁻⁶⁵ ₋₇	28.3 ⁻⁷⁴ ₋₆	23.1 ⁻⁸³ ₋₆	17.3 ⁻⁹⁰ ₋₅	10.9 ⁻⁹⁶ ₋₄	4.2 ⁻¹⁰¹ ₋₃	-6.0 ⁻¹⁰⁴ ₋₂	-16.4
Feb 3		43.2 ⁻⁶ ₋₉	42.8 ⁻¹⁹ ₋₉	41.5 ⁻³¹ ₋₉	39.3 ⁻⁴³ ₋₈	36.3 ⁻⁵⁴ ₋₈	32.5 ⁻⁶⁴ ₋₈	28.0 ⁻⁷³ ₋₇	22.8 ⁻⁸² ₋₆	17.0 ⁻⁸⁹ ₋₆	10.8 ⁻⁹⁴ ₋₅	4.1 ⁻⁹⁹ ₋₄	-5.9 ⁻¹⁰² ₋₃	-16.2
Feb 4		42.6 ⁻⁶ ₋₉	42.2 ⁻¹⁸ ₋₉	40.9 ⁻³¹ ₋₉	38.7 ⁻⁴² ₋₉	35.8 ⁻⁵³ ₋₈	32.0 ⁻⁶³ ₋₈	27.6 ⁻⁷² ₋₇	22.5 ⁻⁸⁰ ₋₆	16.8 ⁻⁸⁷ ₋₆	10.6 ⁻⁹³ ₋₅	4.1 ⁻⁹⁸ ₋₄	-5.8 ⁻¹⁰¹ ₋₃	-16.0
Feb 5		42.0 ⁻⁶ ₋₉	41.6 ⁻¹⁸ ₋₈	40.3 ⁻³⁰ ₋₈	38.2 ⁻⁴¹ ₋₈	35.2 ⁻⁵² ₋₈	31.5 ⁻⁶² ₋₇	27.2 ⁻⁷¹ ₋₇	22.1 ⁻⁷⁹ ₋₆	16.5 ⁻⁸⁶ ₋₅	10.5 ⁻⁹² ₋₅	4.0 ⁻⁹⁶ ₋₄	-5.7 ⁻¹⁰⁰ ₋₂	-15.7
Feb 6		41.4 ⁻⁶ ₋₈	41.0 ⁻¹⁸ ₋₈	39.7 ⁻³⁰ ₋₇	37.6 ⁻⁴¹ ₋₇	34.7 ⁻⁵² ₋₇	31.1 ⁻⁶¹ ₋₆	26.8 ⁻⁷⁰ ₋₆	21.8 ⁻⁷⁸ ₋₅	16.3 ⁻⁸⁵ ₋₅	10.3 ⁻⁹⁰ ₋₄	4.0 ⁻⁹⁵ ₋₃	-5.6 ⁻⁹⁸ ₋₂	-15.5
Feb 7		40.9 ⁻⁶ ₋₇	40.4 ⁻¹⁸ ₋₆	39.2 ⁻²⁹ ₋₆	37.1 ⁻⁴⁰ ₋₆	34.3 ⁻⁵¹ ₋₆	30.7 ⁻⁶¹ ₋₅	26.4 ⁻⁷⁰ ₋₅	21.5 ⁻⁷⁷ ₋₅	16.1 ⁻⁸⁴ ₋₄	10.2 ⁻⁸⁹ ₋₃	3.9 ⁻⁹⁴ ₋₃	-5.6 ⁻⁹⁷ ₋₂	-15.3
Feb 8		40.4 ⁻⁶ ₋₅	40.0 ⁻¹⁸ ₋₅	38.8 ⁻²⁹ ₋₅	36.7 ⁻⁴⁰ ₋₅	33.9 ⁻⁵⁰ ₋₅	30.4 ⁻⁶⁰ ₋₄	26.1 ⁻⁶⁹ ₋₄	21.3 ⁻⁷⁷ ₋₄	15.9 ⁻⁸³ ₋₃	10.1 ⁻⁸⁸ ₋₃	3.9 ⁻⁹³ ₋₂	-5.5 ⁻⁹⁶ ₋₂	-15.1
Feb 9		40.0 ⁻⁶ ₋₄	39.6 ⁻¹⁷ ₋₄	38.4 ⁻²⁹ ₋₄	36.4 ⁻⁴⁰ ₋₄	33.6 ⁻⁵⁰ ₋₄	30.1 ⁻⁶⁰ ₋₄	25.9 ⁻⁶⁸ ₋₃	21.1 ⁻⁷⁶ ₋₃	15.8 ⁻⁸² ₋₃	10.0 ⁻⁸⁸ ₋₂	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-15.0
Feb 10		39.8 ⁻⁶ ₋₃	39.3 ⁻¹⁷ ₋₃	38.1 ⁻²⁹ ₋₃	36.1 ⁻³⁹ ₋₃	33.4 ⁻⁵⁰ ₋₃	29.9 ⁻⁵⁹ ₋₃	25.7 ⁻⁶⁸ ₋₂	21.0 ⁻⁷⁵ ₋₂	15.7 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₁	-5.4 ⁻⁹⁵ ₋₁	-14.9
Feb 11		39.5 ⁻⁶ ₋₂	39.1 ⁻¹⁷ ₋₂	37.9 ⁻²⁸ ₋₂	35.9 ⁻³⁹ ₋₂	33.2 ⁻⁴⁹ ₋₂	29.7 ⁻⁵⁹ ₋₂	25.6 ⁻⁶⁷ ₋₂	20.8 ⁻⁷⁵ ₋₂	15.6 ⁻⁸² ₋₁	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻		

Lower Limb

Altitude degrees

	0			7			14			21			28			35			42			49			56			63			70			80			90		
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t			
Feb 16	68.9	-6	3	68.5	-17	3	67.3	-28	2	65.3	-39	2	62.6	-49	2	59.1	-59	2	55.0	-68	2	50.3	-75	2	45.0	-82	2	39.3	-87	1	33.3	-91	1	24.2	-94	1	14.8		
Feb 17	69.2	-6	4	68.8	-17	4	67.6	-29	4	65.6	-39	4	62.8	-50	3	59.4	-59	3	55.2	-68	3	50.5	-76	3	45.2	-82	2	39.5	-87	2	33.4	-92	2	24.3	-95	1	14.8		
Feb 18	69.7	-6	5	69.3	-17	5	68.0	-29	5	66.0	-40	5	63.3	-50	5	59.8	-60	4	55.6	-68	4	50.8	-76	4	45.5	-83	3	39.8	-88	3	33.6	-93	2	24.4	-95	1	14.9		
Feb 19	70.3	-6	7	69.9	-18	6	68.6	-29	6	66.6	-40	6	63.8	-51	6	60.3	-60	5	56.1	-69	5	51.3	-77	5	45.9	-83	4	40.1	-89	3	33.9	-94	3	24.6	-96	2	15.0		
Feb 20	71.1	-6	8	70.7	-18	8	69.4	-29	8	67.4	-41	7	64.5	-51	7	61.0	-61	7	56.7	-70	6	51.9	-78	5	46.4	-85	5	40.6	-90	4	34.3	-95	3	24.9	-98	2	15.2		
Feb 21	72.0	-6	9	71.6	-18	9	70.3	-30	9	68.3	-41	8	65.4	-52	8	61.8	-62	8	57.5	-71	7	52.6	-79	6	47.1	-86	6	41.1	-91	5	34.8	-96	4	25.2	-99	3	15.4		
Feb 22	73.1	-6	10	72.7	-18	10	71.4	-30	9	69.3	-42	9	66.4	-53	9	62.7	-63	8	58.4	-72	8	53.3	-80	7	47.8	-87	6	41.7	-93	5	35.3	-98	4	25.6	-101	3	15.7		
Feb 23	74.3	-6	10	73.9	-19	10	72.6	-31	10	70.4	-43	9	67.5	-54	9	63.7	-64	8	59.3	-73	8	54.2	-81	7	48.6	-88	6	42.4	-94	5	35.9	-99	4	26.0	-102	3	15.9		
Feb 24	75.5	-6	9	75.0	-19	9	73.7	-31	9	71.5	-43	9	68.5	-54	8	64.8	-65	8	60.2	-74	7	55.1	-83	6	49.3	-90	6	43.1	-96	5	36.4	-101	4	26.5	-104	3	16.2		
Feb 25	76.6	-6	7	76.1	-19	7	74.8	-32	7	72.6	-44	7	69.5	-55	7	65.7	-66	6	61.1	-75	6	55.9	-84	5	50.0	-91	5	43.7	-97	4	37.0	-102	3	26.8	-105	2	16.4		
Feb 26	77.5	-7	5	77.0	-19	5	75.7	-32	4	73.4	-44	4	70.3	-56	4	66.5	-66	4	61.8	-76	4	56.5	-85	3	50.6	-92	3	44.2	-98	2	37.4	-103	2	27.2	-106	1	16.6		
Feb 27	78.0	-7	1	77.6	-20	1	76.2	-32	1	74.0	-44	1	70.9	-56	1	66.9	-67	1	62.3	-76	1	56.9	-85	1	51.0	-92	1	44.5	-98	1	37.7	-103	1	27.4	-107	0	16.7		
Feb 28	78.2	-7	2	77.7	-19	2	76.4	-32	2	74.1	-44	2	71.0	-56	2	67.1	-67	2	62.4	-76	2	57.0	-85	2	51.1	-92	1	44.6	-98	1	37.8	-103	1	27.4	-106	1	16.7		
Mar 1	77.9	-6	6	77.4	-19	6	76.1	-32	5	73.8	-44	5	70.7	-56	5	66.8	-66	5	62.2	-76	4	56.8	-84	4	50.9	-92	3	44.5	-97	3	37.6	-103	2	27.3	-106	2	16.7		
Mar 2	77.2	-6	8	76.8	-19	8	75.4	-32	8	73.2	-44	8	70.1	-55	7	66.2	-65	7	61.6	-75	6	56.3	-83	6	50.5	-91	5	44.1	-96	4	37.3	-102	3	27.1	-105	2	16.5		
Mar 3	76.2	-6	10	75.8	-19	10	74.5	-31	9	72.3	-43	9	69.2	-54	9	65.4	-65	8	60.8	-74	7	55.6	-82	7	49.8	-89	6	43.5	-95	5	36.8	-100	4	26.7	-103	3	16.3		
Mar 4	75.1	-6	10	74.6	-19	10	73.3	-31	10	71.1	-42	10	68.2	-53	9	64.4	-64	8	59.9	-73	8	54.8	-81	7	49.1	-88	6	42.9	-94	5	36.2	-99	4	26.3	-102	3	16.1		
Mar 5	73.8	-6	10	73.4	-18	10	72.1	-30	10	70.0	-42	9	67.0	-52	9	63.3	-62	8	58.9	-72	8	53.9	-80	7	48.3	-86	6	42.1	-92	5	35.7	-97	4	25.9	-100	3	15.8		
Mar 6	72.6	-6	9	72.2	-18	9	70.9	-30	9	68.8	-41	8	66.0	-52	8	62.3	-62	7	58.0	-70	7	53.0	-78	6	47.5	-85	6	41.5	-91	5	35.1	-95	4	25.5	-98	3	15.6		
Mar 7	71.6	-6	8	71.1	-18	8	69.9	-29	7	67.8	-40	7	65.0	-51	7	61.4	-61	6	57.1	-70	6	52.2	-77	5	46.8	-84	5	40.9	-89	4	34.6	-94	3	25.1	-97	2	15.3		
Mar 8	70.6	-6	6	70.2	-18	6	69.0	-29	6	67.0	-40	6	64.1	-50	5	60.6	-60	5	56.4	-69	5	51.5	-76	4	46.2	-83	4	40.3	-88	3	34.1	-93	3	24.8	-96	2	15.1		
Mar 9	69.9	-6	5	69.5	-17	5	68.3	-29	4	66.3	-40	4	63.5	-50	4	60.0	-59	4	55.8	-68	4	51.0	-76	3	45.7	-82	3	39.9	-88	2	33.8	-92	2	24.5	-95	1	15.0		
Mar 10	69.3	-6	3	68.9	-17	3	67.7	-29	3	65.7	-39	3	63.0	-50	3	59.5	-59	3	55.3	-68	2	50.6	-75	2	45.3	-82	2	39.6	-87	2	33.5	-92	1	24.3	-94	1	14.8		
Mar 11	69.0	-6	2	68.6	-17	2	67.4	-28	2	65.4	-39	2	62.6	-49	2	59.2	-59	1	55.0	-67	1	50.3	-75	1	45.1	-81	1	39.4	-87	1	33.3	-91	1	24.2	-94	1	14.8		
Mar 12	68.8	-6	1	68.3	-17	1	67.1	-28	1	65.2	-39	1	62.4	-49	1	59.0	-59	1	54.9	-67	0	50.2	-75	0	44.9	-81	0	39.2	-86	0	33.2	-91	0	24.1	-94	0	14.7		
Mar 13	68.7	-6	0	68.3	-17	0	67.1	-28	0	65.1	-39	0	62.4	-49	0	58.9	-59	0	54.8	-67	0	50.1	-75	0	44.9	-81	0	39.2	-86	0	33.2	-91	0	24.1	-94	0	14.7		
Mar 14	68.7	-6	1	68.3	-17	1	67.1	-28	1	65.1	-39	1	62.4	-49	1	59.0	-59	1	54.9	-67	1	50.2	-75	1	44.9	-81	1	39.2	-86	1	33.2	-91	1	24.1	-94	0	14.7		
Mar 15	68.9	-6	2	68.5	-17	2	67.3	-28	2	65.3	-39	2	62.6	-49	2	59.1	-59	2	55.0	-67	2	50.3	-75	2	45.0	-82	1	39.3	-87	1	33.3	-91	1	24.2	-94	1	14.8		
Mar 16	69.2	-6	3	68.8	-17	3	67.5	-29	3	65.5	-39	3	62.8	-50	3	59.3	-59	3	55.2	-68	2	50.5	-75	2	45.2	-82	2	39.5	-87	2	33.4	-92	1	24.2	-95	1	14.8		
Mar 17	69.5	-6	4	69.1	-17	4	67.9	-29	4	65.9	-40	4	63.1	-50	3	59.6	-60	3	55.5	-68	3	50.7	-76	3	45.4	-82	2	39.7	-88	2	33.6	-92	2	24.4	-95	1	14.9		
Mar 18	70.0	-6	5	69.6	-18	5	68.4	-29	5	66.3	-40	4	63.6	-50	4	60.0	-60	4	55.9	-69	4	51.1	-76	3	45.7	-83	3	40.0	-88	3	33.8	-93	2	24.5	-96	1	15.0		
Mar 19	70.6	-6	6	70.1	-18	6	68.9	-29	5	66.9	-40	5	64.1	-51	5	60.5	-61	5	56.3	-69	4	51.5	-77	4	46.1	-84	3	40.3	-89	3	34.1	-94	2	24.7	-97	2	15.1		
Mar 20	71.2	-6	7	70.8	-18	7	69.6	-30	6	67.5	-41	6	64.7	-51	6	61.1	-61	5	56.9	-70	5	52.0	-78	5	46.6	-85	4	40.7	-90	3	34.4	-95	3	25.0	-98	2	15.3		
Mar 21	72.0	-6	7	71.6	-18	7	70.4	-30	7	68.3	-41	7	65.4	-52	7	61.8	-62	6	57.5	-71	6	52.6	-79	5	47.1	-86	5	41.1	-91	4	34.8	-96	3	25.3	-99	2	15.4		
Mar 22	72.9	-6	8	72.5	-18	8	71.2	-30	8	69.1	-42	8	66.2	-53	7	62.6	-63	7	58.2	-72	6	53.2	-80	6	47.7	-87	5	41.6	-92	4	35.2	-97	3	25.6	-100	2	15.6		
Mar 23	73.9	-6	8	73.5	-19	8	72.2	-31	8	70.1	-42	8	67.1	-53	7	63.4	-64	7	59.0	-73	6	53.9	-81	6	48.3	-88	5	42.2	-94	4	35.7	-98	4	25.9	-102	2	15.8		
Mar 24	74.9	-6	8	74.5	-19	8	73.2	-31	8	71.0	-43	8	68.0	-54	7	64.3	-64	7	59.8	-74	6	54.7	-82	6	49.0	-89	5	42.8	-95	4	36.2	-100	3	26.3	-103	2	16.0		
Mar 25	75.9	-6	7	75.5	-19	7	74.1	-31	7	71.9	-43	7	68.9	-55	6	65.1	-65	6	60.6	-75	5	55.4	-83	5	49.6	-90	4	43.3	-96	4	36.7	-101	3	26.6	-104	2	16.3		
Mar 26	76.8	-6	5	76.3	-19	5	75.0	-32	5	72.8	-44	5	69.7	-55	5	65.8	-66	4	61.3	-75	4	56.0	-84	4	50.2	-91	3	43.8	-97	3	37.1	-102	2	26.9	-105	1	16.4		
Mar 27	77.4	-6	2	76.9	-19	2	75.6	-32	2	73.3	-44	2	70.3	-56	2	66.4	-66	2	61.8	-76	2	56.5	-84	2	50.6	-92	2	44.2	-97	1	37.4	-103	1	27.1	-106	1	16.6		
Mar 28	77.7	-6	1	77.2	-19	1	75.9	-32	1	73.6	-44	1	70.5	-56	1	66.6	-66	1	62.0	-76	1	56.7	-84	0	50.8	-92	0	44.3	-98	0	37.5	-103	0	27.2	-106	0	16.6		
Mar 29	77.6	-6	4	77.1	-1																																		

2006

Moon Parallax and Semi-diameter

Upper Limb																																																			
Altitude degrees																																																			
	0			7			14			21			28			35			42			49			56			63			70			80			90														
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t						
Feb 16	39.4	⁻⁶ ₃	39.0	⁻¹⁷ ₃	37.8	⁻²⁸ ₂	35.8	⁻³⁹ ₂	33.0	⁻⁴⁹ ₂	29.6	⁻⁵⁹ ₂	25.5	⁻⁶⁸ ₂	20.8	⁻⁷⁵ ₂	15.5	⁻⁸² ₂	9.8	⁻⁸⁷ ₁	3.8	⁻⁹¹ ₁	-5.4	⁻⁹⁴ ₁	-14.8	Feb 17	39.6	⁻⁶ ₄	39.2	⁻¹⁷ ₄	37.9	⁻²⁹ ₄	36.0	⁻³⁹ ₄	33.2	⁻⁵⁰ ₃	29.7	⁻⁵⁹ ₃	25.6	⁻⁶⁸ ₃	20.9	⁻⁷⁶ ₃	15.6	⁻⁸² ₂	9.9	⁻⁸⁷ ₂	3.8	⁻⁹² ₂	-5.4	⁻⁹⁵ ₁	-14.8
Feb 18	39.8	⁻⁶ ₅	39.4	⁻¹⁷ ₅	38.2	⁻²⁹ ₅	36.2	⁻⁴⁰ ₅	33.4	⁻⁵⁰ ₅	29.9	⁻⁶⁰ ₄	25.8	⁻⁶⁸ ₄	21.0	⁻⁷⁶ ₄	15.7	⁻⁸³ ₃	9.9	⁻⁸⁸ ₃	3.8	⁻⁹³ ₂	-5.4	⁻⁹⁵ ₁	-14.9	Feb 19	40.2	⁻⁶ ₇	39.8	⁻¹⁸ ₆	38.5	⁻²⁹ ₆	36.5	⁻⁴⁰ ₆	33.7	⁻⁵¹ ₆	30.2	⁻⁶⁰ ₅	26.0	⁻⁶⁹ ₅	21.2	⁻⁷⁷ ₅	15.8	⁻⁸³ ₄	10.0	⁻⁸⁹ ₃	3.8	⁻⁹⁴ ₃	-5.5	⁻⁹⁶ ₂	-15.0
Feb 20	40.6	⁻⁶ ₈	40.2	⁻¹⁸ ₈	39.0	⁻²⁹ ₈	36.9	⁻⁴¹ ₇	34.1	⁻⁵¹ ₇	30.5	⁻⁶¹ ₇	26.3	⁻⁷⁰ ₆	21.4	⁻⁷⁸ ₅	16.0	⁻⁸⁵ ₅	10.1	⁻⁹⁰ ₄	3.9	⁻⁹⁵ ₃	-5.5	⁻⁹⁸ ₂	-15.2	Feb 21	41.2	⁻⁶ ₉	40.8	⁻¹⁸ ₉	39.5	⁻³⁰ ₉	37.4	⁻⁴¹ ₈	34.5	⁻⁵² ₈	30.9	⁻⁶² ₈	26.6	⁻⁷¹ ₇	21.7	⁻⁷⁹ ₆	16.2	⁻⁸⁶ ₆	10.3	⁻⁹¹ ₅	3.9	⁻⁹⁶ ₄	-5.6	⁻⁹⁹ ₃	-15.4
Feb 22	41.8	⁻⁶ ₁₀	41.4	⁻¹⁸ ₁₀	40.1	⁻³⁰ ₉	38.0	⁻⁴² ₉	35.1	⁻⁵³ ₉	31.4	⁻⁶³ ₈	27.0	⁻⁷² ₈	22.0	⁻⁸⁰ ₇	16.5	⁻⁸⁷ ₆	10.4	⁻⁹³ ₅	4.0	⁻⁹⁸ ₄	-5.7	⁻¹⁰¹ ₃	-15.7	Feb 23	42.5	⁻⁶ ₁₀	42.0	⁻¹⁹ ₁₀	40.7	⁻³¹ ₁₀	38.6	⁻⁴³ ₉	35.6	⁻⁵⁴ ₉	31.9	⁻⁶⁴ ₈	27.5	⁻⁷³ ₈	22.4	⁻⁸¹ ₇	16.7	⁻⁸⁸ ₆	10.6	⁻⁹⁴ ₅	4.1	⁻⁹⁹ ₄	-5.8	⁻¹⁰² ₃	-15.9
Feb 24	43.2	⁻⁶ ₉	42.7	⁻¹⁹ ₉	41.4	⁻³¹ ₉	39.2	⁻⁴³ ₉	36.2	⁻⁵⁴ ₈	32.4	⁻⁶⁵ ₈	27.9	⁻⁷⁴ ₇	22.7	⁻⁸³ ₆	17.0	⁻⁹⁰ ₆	10.8	⁻⁹⁶ ₅	4.1	⁻¹⁰¹ ₄	-5.9	⁻¹⁰⁴ ₃	-16.2	Feb 25	43.8	⁻⁶ ₇	43.3	⁻¹⁹ ₇	42.0	⁻³² ₇	39.8	⁻⁴⁴ ₇	36.7	⁻⁵⁵ ₇	32.9	⁻⁶⁶ ₆	28.3	⁻⁷⁵ ₆	23.1	⁻⁸⁴ ₅	17.3	⁻⁹¹ ₅	10.9	⁻⁹⁷ ₄	4.2	⁻¹⁰² ₃	-5.9	⁻¹⁰⁵ ₂	-16.4
Feb 26	44.3	⁻⁷ ₅	43.8	⁻¹⁹ ₅	42.5	⁻³² ₄	40.2	⁻⁴⁴ ₄	37.2	⁻⁵⁶ ₄	33.3	⁻⁶⁶ ₄	28.7	⁻⁷⁶ ₄	23.3	⁻⁸⁵ ₃	17.5	⁻⁹² ₃	11.0	⁻⁹⁸ ₂	4.2	⁻¹⁰³ ₂	-6.0	⁻¹⁰⁶ ₁	-16.6	Feb 27	44.6	⁻⁷ ₁	44.2	⁻²⁰ ₁	42.8	⁻³² ₁	40.5	⁻⁴⁴ ₁	37.4	⁻⁵⁶ ₁	33.5	⁻⁶⁷ ₁	28.9	⁻⁷⁶ ₁	23.5	⁻⁸⁵ ₁	17.6	⁻⁹² ₁	11.1	⁻⁹⁸ ₁	4.3	⁻¹⁰³ ₁	-6.1	⁻¹⁰⁷ ₀	-16.7
Feb 28	44.7	⁻⁷ ₋₂	44.2	⁻¹⁹ ₋₂	42.9	⁻³² ₋₂	40.6	⁻⁴⁴ ₋₂	37.5	⁻⁵⁶ ₋₂	33.6	⁻⁶⁷ ₋₂	28.9	⁻⁷⁶ ₋₂	23.6	⁻⁸⁵ ₋₂	17.6	⁻⁹² ₋₁	11.1	⁻⁹⁸ ₋₁	4.3	⁻¹⁰³ ₋₁	-6.1	⁻¹⁰⁶ ₋₁	-16.7	Mar 1	44.5	⁻⁶ ₋₆	44.1	⁻¹⁹ ₋₆	42.7	⁻³² ₋₅	40.5	⁻⁴⁴ ₋₅	37.4	⁻⁵⁶ ₋₅	33.5	⁻⁶⁶ ₋₅	28.8	⁻⁷⁶ ₋₄	23.5	⁻⁸⁴ ₋₄	17.5	⁻⁹² ₋₃	11.1	⁻⁹⁷ ₋₃	4.3	⁻¹⁰³ ₋₂	-6.1	⁻¹⁰⁶ ₋₂	-16.7
Mar 2	44.1	⁻⁶ ₋₈	43.7	⁻¹⁹ ₋₈	42.3	⁻³² ₋₈	40.1	⁻⁴⁴ ₋₈	37.0	⁻⁵⁵ ₋₇	33.2	⁻⁶⁵ ₋₇	28.6	⁻⁷⁵ ₋₆	23.3	⁻⁸³ ₋₆	17.4	⁻⁹¹ ₋₅	11.0	⁻⁹⁶ ₋₄	4.2	⁻¹⁰² ₋₃	-6.0	⁻¹⁰⁵ ₋₂	-16.5	Mar 3	43.6	⁻⁶ ₋₁₀	43.1	⁻¹⁹ ₋₁₀	41.8	⁻³¹ ₋₉	39.6	⁻⁴³ ₋₉	36.6	⁻⁵⁴ ₋₉	32.7	⁻⁶⁵ ₋₈	28.2	⁻⁷⁴ ₋₇	23.0	⁻⁸² ₋₇	17.2	⁻⁸⁹ ₋₆	10.9	⁻⁹⁵ ₋₅	4.2	⁻¹⁰⁰ ₋₄	-5.9	⁻¹⁰³ ₋₃	-16.3
Mar 4	42.9	⁻⁶ ₋₁₀	42.5	⁻¹⁹ ₋₁₀	41.2	⁻³¹ ₋₁₀	39.0	⁻⁴² ₋₁₀	36.0	⁻⁵³ ₋₉	32.2	⁻⁶⁴ ₋₈	27.8	⁻⁷³ ₋₈	22.6	⁻⁸¹ ₋₇	16.9	⁻⁸⁸ ₋₆	10.7	⁻⁹⁴ ₋₅	4.1	⁻⁹⁹ ₋₄	-5.8	⁻¹⁰² ₋₃	-16.1	Mar 5	42.2	⁻⁶ ₋₁₀	41.8	⁻¹⁸ ₋₁₀	40.5	⁻³⁰ ₋₁₀	38.4	⁻⁴² ₋₉	35.4	⁻⁵² ₋₉	31.7	⁻⁶² ₋₈	27.3	⁻⁷² ₋₈	22.3	⁻⁸⁰ ₋₇	16.6	⁻⁸⁶ ₋₆	10.5	⁻⁹² ₋₅	4.0	⁻⁹⁷ ₋₄	-5.7	⁻¹⁰⁰ ₋₃	-15.8
Mar 6	41.5	⁻⁶ ₋₉	41.1	⁻¹⁸ ₋₉	39.8	⁻³⁰ ₋₉	37.7	⁻⁴¹ ₋₈	34.8	⁻⁵² ₋₈	31.2	⁻⁶² ₋₇	26.9	⁻⁷⁰ ₋₇	21.9	⁻⁷⁸ ₋₆	16.4	⁻⁸⁵ ₋₆	10.4	⁻⁹¹ ₋₅	4.0	⁻⁹⁵ ₋₄	-5.6	⁻⁹⁸ ₋₃	-15.6	Mar 7	40.9	⁻⁶ ₋₈	40.5	⁻¹⁸ ₋₈	39.2	⁻²⁹ ₋₇	37.2	⁻⁴⁰ ₋₇	34.3	⁻⁵¹ ₋₇	30.7	⁻⁶¹ ₋₆	26.5	⁻⁷⁰ ₋₆	21.6	⁻⁷⁷ ₋₅	16.1	⁻⁸⁴ ₋₅	10.2	⁻⁸⁹ ₋₄	3.9	⁻⁹⁴ ₋₃	-5.6	⁻⁹⁷ ₋₂	-15.3
Mar 8	40.4	⁻⁶ ₋₆	40.0	⁻¹⁸ ₋₆	38.7	⁻²⁹ ₋₆	36.7	⁻⁴⁰ ₋₆	33.9	⁻⁵⁰ ₋₅	30.3	⁻⁶⁰ ₋₅	26.1	⁻⁶⁹ ₋₅	21.3	⁻⁷⁶ ₋₄	15.9	⁻⁸³ ₋₄	10.1	⁻⁸⁸ ₋₃	3.9	⁻⁹³ ₋₃	-5.5	⁻⁹⁶ ₋₂	-15.1	Mar 9	40.0	⁻⁶ ₋₅	39.6	⁻¹⁷ ₋₅	38.3	⁻²⁹ ₋₄	36.3	⁻⁴⁰ ₋₄	33.5	⁻⁵⁰ ₋₄	30.0	⁻⁵⁹ ₋₄	25.9	⁻⁶⁸ ₋₄	21.1	⁻⁷⁶ ₋₃	15.7	⁻⁸² ₋₃	10.0	⁻⁸⁸ ₋₂	3.8	⁻⁹² ₋₂	-5.4	⁻⁹⁵ ₋₁	-15.0
Mar 10	39.6	⁻⁶ ₋₃	39.2	⁻¹⁷ ₋₃	38.0	⁻²⁹ ₋₃	36.0	⁻³⁹ ₋₃	33.3	⁻⁵⁰ ₋₃	29.8	⁻⁵⁹ ₋₃	25.6	⁻⁶⁸ ₋₂	20.9	⁻⁷⁵ ₋₂	15.6	⁻⁸² ₋₂	9.9	⁻⁸⁷ ₋₂	3.8	⁻⁹² ₋₁	-5.4	⁻⁹⁴ ₋₁	-14.8	Mar 11	39.4	⁻⁶ ₋₂	39.0	⁻¹⁷ ₋₂	37.8	⁻²⁸ ₋₂	35.8	⁻³⁹ ₋₂	33.1	⁻⁴⁹ ₋₂	29.6	⁻⁵⁹ ₋₁	25.5	⁻⁶⁷ ₋₁	20.8	⁻⁷⁵ ₋₁	15.5	⁻⁸¹ ₋₁	9.8	⁻⁸⁷ ₋₁	3.8	⁻⁹¹ ₋₁	-5.4	⁻⁹⁴ ₋₁	-14.8
Mar 12	39.3	⁻⁶ ₋₁	38.9	⁻¹⁷ ₋₁	37.7	⁻²⁸ ₋₁	35.7	⁻³⁹ ₋₁	33.0	⁻⁴⁹ ₋₁	29.5	⁻⁵⁹ ₋₁	25.4	⁻⁶⁷ ₀	20.7	⁻⁷⁵ ₀	15.5	⁻⁸¹ ₀	9.8	⁻⁸⁶ ₀	3.8	⁻⁹¹ ₀	-5.3	⁻⁹⁴ ₀	-14.7	Mar 13	39.3	⁻⁶ ₀	38.9	⁻¹⁷ ₀	37.7	⁻²⁸ ₀	35.7	⁻³⁹ ₀	32.9	⁻⁴⁹ ₀	29.5	⁻⁵⁹ ₀	25.4	⁻⁶⁷ ₀	20.7	⁻⁷⁵ ₀	15.5	⁻⁸¹ ₀	9.8	⁻⁸⁶ ₀	3.8	⁻⁹¹ ₀	-5.3	⁻⁹⁴ ₀	-14.7
Mar 14	39.3	⁻⁶ ₁	38.9	⁻¹⁷ ₁	37.7	⁻²⁸ ₁	35.7	⁻³⁹ ₁	33.0	⁻⁴⁹ ₁	29.5	⁻⁵⁹ ₁	25.4	⁻⁶⁷ ₁	20.7	⁻⁷⁵ ₁	15.5	⁻⁸¹ ₁	9.8	⁻⁸⁶ ₁	3.8	⁻⁹¹ ₁	-5.3	⁻⁹⁴ ₁	-14.7	Mar 15	39.4	⁻⁶ ₂	39.0	⁻¹⁷ ₂	37.8	⁻²⁸ ₂	35.8	⁻³⁹ ₂	33.0	⁻⁴⁹ ₂	29.6	⁻⁵⁹ ₂	25.5	⁻⁶⁷ ₂	20.8	⁻⁷⁵ ₂	15.5	⁻⁸² ₁	9.8	⁻⁸⁷ ₁	3.8	⁻⁹¹ ₁	-5.4	⁻⁹⁴ ₁	-14.8
Mar 16	39.5	⁻⁶ ₃	39.1	⁻¹⁷ ₃	37.9	⁻²⁹ ₃	35.9	⁻³⁹ ₃	33.2	⁻⁵⁰ ₃	29.7	⁻⁵⁹ ₃	25.6	⁻⁶⁸ ₂	20.8	⁻⁷⁵ ₂	15.6	⁻⁸² ₂	9.9	⁻⁸⁷ ₂	3.8	⁻⁹² ₁	-5.4	⁻⁹⁵ ₁	-14.8	Mar 17	39.7	⁻⁶ ₄	39.3	⁻¹⁷ ₄	38.1	⁻²⁹ ₄	36.1	⁻⁴⁰ ₄	33.4	⁻⁵⁰ ₃	29.9	⁻⁶⁰ ₃	25.7	⁻⁶⁸ ₃	21.0	⁻⁷⁶ ₃	15.7	⁻⁸² ₂	9.9	⁻⁸⁸ ₂	3.8	⁻⁹² ₂	-5.4	⁻⁹⁵ ₁	-14.9
Mar 18	40.0	⁻⁶ ₅	39.6	⁻¹⁸ ₅	38.4	⁻²⁹ ₅	36.4	⁻⁴⁰ ₄	33.6	⁻⁵⁰ ₄	30.1	⁻⁶⁰ ₄	25.9	⁻⁶⁹ ₄	21.1	⁻⁷⁶ ₃	15.8	⁻⁸³ ₃	10.0	⁻⁸⁸ ₃	3.8	⁻⁹³ ₂	-5.4	⁻⁹⁶ ₁	-15.0	Mar 19	40.3	⁻⁶ ₆	39.9	⁻¹⁸ ₆	38.7	⁻²⁹ ₅	36.7	⁻⁴⁰ ₅	33.8	⁻⁵¹ ₅	30.3	⁻⁶¹ ₅	26.1	⁻⁶⁹ ₄	21.3	⁻⁷⁷ ₄	15.9	⁻⁸⁴ ₃	10.1	⁻⁸⁹ ₃	3.9	⁻⁹⁴ ₂	-5.5	⁻⁹⁷ ₂	-15.1
Mar 20	40.7	⁻⁶ ₇	40.3	⁻¹⁸ ₇	39.1	⁻³⁰ ₆	37.0	⁻⁴¹ ₆	34.2	⁻⁵¹ ₆	30.6	⁻⁶¹ ₅	26.3	⁻⁷⁰ ₅	21.5	⁻⁷⁸ ₅	16.1	⁻⁸⁵ ₄	10.2	⁻⁹⁰ ₃	3.9	⁻⁹⁵ ₃	-5.5	⁻⁹⁸ ₂	-15.3	Mar 21	41.2	⁻⁶ ₇	40.8	⁻¹⁸ ₇	39.5	⁻³⁰ ₇	37.4	⁻⁴¹ ₇	34.6	⁻⁵² ₇	30.9	⁻⁶² ₆	26.6	⁻⁷¹ ₆	21.7	⁻⁷⁹ ₅	16.2	⁻⁸⁶ ₅	10.3	⁻⁹¹ ₄	3.9	⁻⁹⁶ ₃	-5.6	⁻⁹⁹ ₂	-15.4
Mar 22	41.7	⁻⁶ ₈	41.3	⁻¹⁸ ₈	40.0	⁻³⁰ ₈	37.9	⁻⁴² ₈	35.0	⁻⁵³ ₇	31.3	⁻⁶³ ₇	27.0	⁻⁷² ₆	22.0	⁻⁸⁰ ₆	16.4	⁻⁸⁷ ₅	10.4	⁻⁹² ₄	4.0	⁻⁹⁷ ₃	-5.7	⁻¹⁰⁰ ₂	-15.6	Mar 23	42.3	⁻⁶ ₈	41.8	⁻¹⁹ ₈	40.5	⁻³¹ ₈	38.4	⁻⁴² ₈	35.5	⁻⁵³ ₇	31.8	⁻⁶⁴ ₇	27.3	⁻⁷³ ₆	22.3	⁻⁸¹ ₆	16.7	⁻⁸⁸ ₅	10.5	⁻⁹⁴ ₄					

2006

Moon Parallax and Semi-diameter

Lower Limb																																										
Altitude degrees																																										
	0			7			14			21			28			35			42			49			56			63			70			80			90					
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Apr 3	72.9	⁻⁶	₋₉	72.5	⁻¹⁸	₋₉	71.2	⁻³⁰	₋₉	69.1	⁻⁴¹	₋₉	66.2	⁻⁵²	₋₈	62.5	⁻⁶²	₋₈	58.2	⁻⁷¹	₋₇	53.2	⁻⁷⁹	₋₆	47.7	⁻⁸⁵	₋₆	41.6	⁻⁹¹	₋₅	35.2	⁻⁹⁶	₋₄	25.6	⁻⁹⁹	₋₃	15.6					
Apr 4	71.8	⁻⁶	₋₈	71.4	⁻¹⁸	₋₈	70.1	⁻²⁹	₋₈	68.0	⁻⁴¹	₋₈	65.2	⁻⁵¹	₋₇	61.6	⁻⁶¹	₋₇	57.3	⁻⁷⁰	₋₆	52.4	⁻⁷⁸	₋₆	46.9	⁻⁸⁴	₋₅	41.0	⁻⁹⁰	₋₄	34.7	⁻⁹⁴	₋₃	25.2	⁻⁹⁷	₋₂	15.4					
Apr 5	70.8	⁻⁶	₋₇	70.4	⁻¹⁸	₋₇	69.2	⁻²⁹	₋₆	67.1	⁻⁴⁰	₋₆	64.3	⁻⁵⁰	₋₆	60.7	⁻⁶⁰	₋₆	56.5	⁻⁶⁹	₋₅	51.7	⁻⁷⁷	₋₅	46.3	⁻⁸³	₋₄	40.4	⁻⁸⁸	₋₄	34.2	⁻⁹³	₋₃	24.8	⁻⁹⁶	₋₂	15.2					
Apr 6	70.0	⁻⁶	₋₅	69.6	⁻¹⁷	₋₅	68.4	⁻²⁹	₋₅	66.3	⁻⁴⁰	₋₅	63.6	⁻⁵⁰	₋₄	60.1	⁻⁵⁹	₋₄	55.9	⁻⁶⁸	₋₄	51.1	⁻⁷⁶	₋₃	45.8	⁻⁸²	₋₃	40.0	⁻⁸⁸	₋₃	33.8	⁻⁹²	₋₂	24.5	⁻⁹⁵	₋₁	15.0					
Apr 7	69.4	⁻⁶	₋₃	69.0	⁻¹⁷	₋₃	67.8	⁻²⁹	₋₃	65.8	⁻³⁹	₋₃	63.0	⁻⁵⁰	₋₃	59.5	⁻⁵⁹	₋₃	55.4	⁻⁶⁸	₋₂	50.6	⁻⁷⁵	₋₂	45.4	⁻⁸²	₋₂	39.6	⁻⁸⁷	₋₂	33.5	⁻⁹²	₋₁	24.3	⁻⁹⁴	₋₁	14.9					
Apr 8	69.0	⁻⁶	₋₂	68.6	⁻¹⁷	₋₂	67.4	⁻²⁸	₋₂	65.4	⁻³⁹	₋₁	62.7	⁻⁴⁹	₋₁	59.2	⁻⁵⁹	₋₁	55.1	⁻⁶⁷	₋₁	50.4	⁻⁷⁵	₋₁	45.1	⁻⁸¹	₋₁	39.4	⁻⁸⁷	₋₁	33.3	⁻⁹¹	₋₁	24.2	⁻⁹⁴	₀	14.8					
Apr 9	68.8	⁻⁶	₀	68.4	⁻¹⁷	₀	67.2	⁻²⁸	₀	65.2	⁻³⁹	₀	62.5	⁻⁴⁹	₀	59.0	⁻⁵⁹	₀	54.9	⁻⁶⁷	₀	50.2	⁻⁷⁵	₀	45.0	⁻⁸¹	₀	39.3	⁻⁸⁷	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7					
Apr 10	68.8	⁻⁶	₁	68.4	⁻¹⁷	₁	67.2	⁻²⁸	₁	65.2	⁻³⁹	₁	62.5	⁻⁴⁹	₁	59.0	⁻⁵⁹	₁	54.9	⁻⁶⁷	₁	50.2	⁻⁷⁵	₁	45.0	⁻⁸¹	₁	39.3	⁻⁸⁷	₁	33.2	⁻⁹¹	₁	24.1	⁻⁹⁴	₀	14.7					
Apr 11	69.0	⁻⁶	₂	68.6	⁻¹⁷	₂	67.4	⁻²⁸	₂	65.4	⁻³⁹	₂	62.6	⁻⁴⁹	₂	59.2	⁻⁵⁹	₂	55.0	⁻⁶⁸	₂	50.3	⁻⁷⁵	₂	45.1	⁻⁸²	₁	39.4	⁻⁸⁷	₁	33.3	⁻⁹¹	₁	24.2	⁻⁹⁴	₁	14.8					
Apr 12	69.2	⁻⁶	₃	68.8	⁻¹⁷	₃	67.6	⁻²⁹	₃	65.6	⁻³⁹	₃	62.9	⁻⁵⁰	₃	59.4	⁻⁵⁹	₃	55.3	⁻⁶⁸	₂	50.5	⁻⁷⁶	₂	45.3	⁻⁸²	₂	39.5	⁻⁸⁷	₂	33.4	⁻⁹²	₁	24.3	⁻⁹⁵	₁	14.8					
Apr 13	69.6	⁻⁶	₄	69.2	⁻¹⁷	₄	68.0	⁻²⁹	₄	66.0	⁻⁴⁰	₄	63.2	⁻⁵⁰	₃	59.7	⁻⁶⁰	₃	55.6	⁻⁶⁸	₃	50.8	⁻⁷⁶	₃	45.5	⁻⁸³	₂	39.8	⁻⁸⁸	₂	33.6	⁻⁹²	₂	24.4	⁻⁹⁵	₁	14.9					
Apr 14	70.1	⁻⁶	₄	69.7	⁻¹⁸	₄	68.5	⁻²⁹	₄	66.4	⁻⁴⁰	₄	63.7	⁻⁵⁰	₄	60.1	⁻⁶⁰	₄	56.0	⁻⁶⁹	₃	51.2	⁻⁷⁷	₃	45.8	⁻⁸³	₃	40.0	⁻⁸⁸	₂	33.9	⁻⁹³	₂	24.6	⁻⁹⁶	₁	15.0					
Apr 15	70.6	⁻⁶	₅	70.2	⁻¹⁸	₅	69.0	⁻²⁹	₅	66.9	⁻⁴⁰	₅	64.1	⁻⁵¹	₄	60.6	⁻⁶¹	₄	56.4	⁻⁶⁹	₄	51.5	⁻⁷⁷	₃	46.2	⁻⁸⁴	₃	40.3	⁻⁸⁹	₃	34.1	⁻⁹⁴	₂	24.8	⁻⁹⁷	₁	15.1					
Apr 16	71.2	⁻⁶	₅	70.8	⁻¹⁸	₅	69.6	⁻²⁹	₅	67.5	⁻⁴¹	₅	64.7	⁻⁵¹	₅	61.1	⁻⁶¹	₄	56.8	⁻⁷⁰	₄	52.0	⁻⁷⁸	₄	46.5	⁻⁸⁴	₃	40.7	⁻⁹⁰	₃	34.4	⁻⁹⁵	₂	25.0	⁻⁹⁸	₁	15.3					
Apr 17	71.9	⁻⁶	₆	71.4	⁻¹⁸	₅	70.2	⁻³⁰	₅	68.1	⁻⁴¹	₅	65.2	⁻⁵²	₅	61.6	⁻⁶²	₅	57.3	⁻⁷¹	₄	52.4	⁻⁷⁹	₄	47.0	⁻⁸⁵	₃	41.0	⁻⁹¹	₃	34.7	⁻⁹⁶	₂	25.2	⁻⁹⁹	₂	15.4					
Apr 18	72.5	⁻⁶	₆	72.1	⁻¹⁸	₆	70.8	⁻³⁰	₆	68.7	⁻⁴¹	₅	65.8	⁻⁵²	₅	62.2	⁻⁶²	₅	57.9	⁻⁷¹	₄	52.9	⁻⁷⁹	₄	47.4	⁻⁸⁶	₄	41.4	⁻⁹²	₃	35.0	⁻⁹⁶	₂	25.4	⁻⁹⁹	₂	15.5					
Apr 19	73.2	⁻⁶	₆	72.8	⁻¹⁸	₆	71.5	⁻³⁰	₆	69.4	⁻⁴²	₆	66.5	⁻⁵³	₅	62.8	⁻⁶³	₅	58.4	⁻⁷²	₅	53.4	⁻⁸⁰	₄	47.9	⁻⁸⁷	₄	41.8	⁻⁹²	₃	35.4	⁻⁹⁷	₃	25.7	⁻¹⁰⁰	₂	15.7					
Apr 20	73.9	⁻⁶	₆	73.5	⁻¹⁹	₆	72.2	⁻³¹	₆	70.1	⁻⁴²	₆	67.1	⁻⁵³	₅	63.4	⁻⁶³	₅	59.0	⁻⁷³	₅	54.0	⁻⁸¹	₄	48.3	⁻⁸⁸	₄	42.2	⁻⁹³	₃	35.7	⁻⁹⁸	₃	25.9	⁻¹⁰¹	₂	15.8					
Apr 21	74.7	⁻⁶	₆	74.2	⁻¹⁹	₆	72.9	⁻³¹	₆	70.8	⁻⁴³	₅	67.8	⁻⁵⁴	₅	64.1	⁻⁶⁴	₅	59.6	⁻⁷³	₄	54.5	⁻⁸²	₄	48.8	⁻⁸⁹	₄	42.6	⁻⁹⁴	₃	36.1	⁻⁹⁹	₂	26.2	⁻¹⁰²	₂	16.0					
Apr 22	75.4	⁻⁶	₅	74.9	⁻¹⁹	₅	73.6	⁻³¹	₅	71.4	⁻⁴³	₅	68.4	⁻⁵⁴	₄	64.7	⁻⁶⁵	₄	60.2	⁻⁷⁴	₄	55.0	⁻⁸²	₄	49.3	⁻⁸⁹	₃	43.0	⁻⁹⁵	₃	36.4	⁻¹⁰⁰	₂	26.4	⁻¹⁰³	₁	16.1					
Apr 23	76.0	⁻⁶	₄	75.5	⁻¹⁹	₄	74.2	⁻³¹	₄	72.0	⁻⁴³	₄	69.0	⁻⁵⁵	₃	65.2	⁻⁶⁵	₃	60.6	⁻⁷⁵	₃	55.4	⁻⁸³	₃	49.7	⁻⁹⁰	₂	43.4	⁻⁹⁶	₂	36.7	⁻¹⁰¹	₂	26.6	⁻¹⁰⁴	₁	16.3					
Apr 24	76.4	⁻⁶	₂	76.0	⁻¹⁹	₂	74.7	⁻³²	₂	72.5	⁻⁴⁴	₂	69.4	⁻⁵⁵	₂	65.6	⁻⁶⁵	₂	61.0	⁻⁷⁵	₂	55.8	⁻⁸³	₁	50.0	⁻⁹⁰	₁	43.6	⁻⁹⁶	₁	36.9	⁻¹⁰¹	₁	26.8	⁻¹⁰⁴	₁	16.4					
Apr 25	76.7	⁻⁶	₀	76.2	⁻¹⁹	₀	74.9	⁻³²	₀	72.7	⁻⁴⁴	₀	69.6	⁻⁵⁵	₀	65.8	⁻⁶⁵	₀	61.2	⁻⁷⁵	₀	56.0	⁻⁸³	₀	50.1	⁻⁹¹	₀	43.8	⁻⁹⁶	₀	37.0	⁻¹⁰¹	₀	26.9	⁻¹⁰⁵	₀	16.4					
Apr 26	76.7	⁻⁶	₋₃	76.2	⁻¹⁹	₋₃	74.9	⁻³²	₋₃	72.7	⁻⁴³	₋₂	69.6	⁻⁵⁵	₋₂	65.8	⁻⁶⁵	₋₂	61.2	⁻⁷⁵	₋₂	55.9	⁻⁸³	₋₂	50.1	⁻⁹⁰	₋₂	43.8	⁻⁹⁶	₋₁	37.0	⁻¹⁰¹	₋₁	26.9	⁻¹⁰⁴	₋₁	16.4					
Apr 27	76.4	⁻⁶	₋₅	75.9	⁻¹⁹	₋₅	74.6	⁻³¹	₋₅	72.4	⁻⁴³	₋₅	69.3	⁻⁵⁴	₋₄	65.5	⁻⁶⁵	₋₄	60.9	⁻⁷⁴	₋₄	55.7	⁻⁸³	₋₃	49.9	⁻⁹⁰	₋₃	43.6	⁻⁹⁶	₋₃	36.9	⁻¹⁰¹	₋₂	26.8	⁻¹⁰⁴	₋₁	16.4					
Apr 28	75.8	⁻⁶	₋₇	75.3	⁻¹⁹	₋₇	74.0	⁻³¹	₋₇	71.8	⁻⁴³	₋₆	68.8	⁻⁵⁴	₋₆	65.0	⁻⁶⁴	₋₆	60.5	⁻⁷⁴	₋₅	55.3	⁻⁸²	₋₅	49.5	⁻⁸⁹	₋₄	43.2	⁻⁹⁵	₋₄	36.6	⁻¹⁰⁰	₋₃	26.6	⁻¹⁰³	₋₂	16.2					
Apr 29	74.9	⁻⁶	₋₈	74.5	⁻¹⁹	₋₈	73.2	⁻³¹	₋₈	71.0	⁻⁴²	₋₈	68.0	⁻⁵³	₋₇	64.3	⁻⁶⁴	₋₇	59.8	⁻⁷³	₋₆	54.7	⁻⁸¹	₋₆	49.0	⁻⁸⁸	₋₅	42.8	⁻⁹⁴	₋₄	36.2	⁻⁹⁸	₋₃	26.3	⁻¹⁰²	₋₂	16.0					
Apr 30	73.9	⁻⁶	₋₉	73.5	⁻¹⁸	₋₉	72.2	⁻³⁰	₋₈	70.1	⁻⁴²	₋₈	67.1	⁻⁵³	₋₈	63.4	⁻⁶³	₋₇	59.0	⁻⁷²	₋₇	53.9	⁻⁸⁰	₋₆	48.3	⁻⁸⁷	₋₅	42.2	⁻⁹²	₋₅	35.7	⁻⁹⁷	₋₄	25.9	⁻¹⁰⁰	₋₂	15.8					
May 1	72.9	⁻⁶	₋₉	72.5	⁻¹⁸	₋₉	71.2	⁻³⁰	₋₈	69.1	⁻⁴¹	₋₈	66.2	⁻⁵²	₋₈	62.5	⁻⁶²	₋₇	58.2	⁻⁷¹	₋₇	53.2	⁻⁷⁹	₋₆	47.6	⁻⁸⁵	₋₅	41.6	⁻⁹¹	₋₅	35.2	⁻⁹⁶	₋₄	25.5	⁻⁹⁹	₋₂	15.6					
May 2	71.8	⁻⁶	₋₈	71.4	⁻¹⁸	₋₈	70.2	⁻²⁹	₋₈	68.1	⁻⁴¹	₋₇	65.2	⁻⁵¹	₋₇	61.6	⁻⁶¹	₋₆	57.3	⁻⁷⁰	₋₆	52.4	⁻⁷⁸	₋₅	47.0	⁻⁸⁴	₋₅	41.0	⁻⁹⁰	₋₄	34.7	⁻⁹⁴	₋₃	25.2	⁻⁹⁷	₋₂	15.4					
May 3	70.9	⁻⁶	₋₇	70.5	⁻¹⁸	₋₆	69.2	⁻²⁹	₋₆	67.2	⁻⁴⁰	₋₆	64.4	⁻⁵¹	₋₆	60.8	⁻⁶⁰	₋₅	56.6	⁻⁶⁹	₋₅	51.7	⁻⁷⁷	₋₅	46.3	⁻⁸³	₋₄	40.5	⁻⁸⁹	₋₃	34.2	⁻⁹³	₋₃	24.9	⁻⁹⁶							

Upper Limb		Altitude degrees											
	0	7	14	21	28	35	42	49	56	63	70	80	90
	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	'
Apr 3	41.7 ⁻⁶ ₋₉	41.3 ⁻¹⁸ ₋₉	40.0 ⁻³⁰ ₋₉	37.9 ⁻⁴¹ ₋₉	35.0 ⁻⁵² ₋₈	31.3 ⁻⁶² ₋₈	27.0 ⁻⁷¹ ₋₇	22.0 ⁻⁷⁹ ₋₆	16.4 ⁻⁸⁵ ₋₆	10.4 ⁻⁹¹ ₋₅	4.0 ⁻⁹⁶ ₋₄	5.7 ⁻⁹⁹ ₋₃	15.6
Apr 4	41.0 ⁻⁶ ₋₈	40.6 ⁻¹⁸ ₋₈	39.4 ⁻²⁹ ₋₈	37.3 ⁻⁴¹ ₋₈	34.4 ⁻⁵¹ ₋₇	30.8 ⁻⁶¹ ₋₇	26.5 ⁻⁷⁰ ₋₆	21.6 ⁻⁷⁸ ₋₆	16.2 ⁻⁸⁴ ₋₅	10.2 ⁻⁹⁰ ₋₄	3.9 ⁻⁹⁴ ₋₃	5.6 ⁻⁹⁷ ₋₂	15.4
Apr 5	40.5 ⁻⁶ ₋₇	40.1 ⁻¹⁸ ₋₇	38.8 ⁻²⁹ ₋₆	36.8 ⁻⁴⁰ ₋₆	34.0 ⁻⁵⁰ ₋₆	30.4 ⁻⁶⁰ ₋₆	26.2 ⁻⁶⁹ ₋₅	21.3 ⁻⁷⁷ ₋₅	16.0 ⁻⁸³ ₋₄	10.1 ⁻⁸⁸ ₋₄	3.9 ⁻⁹³ ₋₃	5.5 ⁻⁹⁶ ₋₂	15.2
Apr 6	40.0 ⁻⁶ ₋₅	39.6 ⁻¹⁷ ₋₅	38.4 ⁻²⁹ ₋₅	36.4 ⁻⁴⁰ ₋₅	33.6 ⁻⁵⁰ ₋₄	30.1 ⁻⁵⁹ ₋₄	25.9 ⁻⁶⁸ ₋₄	21.1 ⁻⁷⁶ ₋₃	15.8 ⁻⁸² ₋₃	10.0 ⁻⁸⁸ ₋₃	3.8 ⁻⁹² ₋₂	5.4 ⁻⁹⁵ ₋₁	15.0
Apr 7	39.7 ⁻⁶ ₋₃	39.3 ⁻¹⁷ ₋₃	38.1 ⁻²⁹ ₋₃	36.1 ⁻³⁹ ₋₃	33.3 ⁻⁵⁰ ₋₃	29.8 ⁻⁵⁹ ₋₃	25.7 ⁻⁶⁸ ₋₂	20.9 ⁻⁷⁵ ₋₂	15.6 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₁	5.4 ⁻⁹⁴ ₋₁	14.9
Apr 8	39.5 ⁻⁶ ₋₂	39.0 ⁻¹⁷ ₋₂	37.8 ⁻²⁸ ₋₂	35.9 ⁻³⁹ ₋₁	33.1 ⁻⁴⁹ ₋₁	29.6 ⁻⁵⁹ ₋₁	25.5 ⁻⁶⁷ ₋₁	20.8 ⁻⁷⁵ ₋₁	15.5 ⁻⁸¹ ₋₁	9.8 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	5.4 ⁻⁹⁴ ₀	14.8
Apr 9	39.3 ⁻⁶ ₀	38.9 ⁻¹⁷ ₀	37.7 ⁻²⁸ ₀	35.8 ⁻³⁹ ₀	33.0 ⁻⁴⁹ ₀	29.6 ⁻⁵⁹ ₀	25.5 ⁻⁶⁷ ₀	20.7 ⁻⁷⁵ ₀	15.5 ⁻⁸¹ ₀	9.8 ⁻⁸⁷ ₀	3.8 ⁻⁹¹ ₀	5.3 ⁻⁹⁴ ₀	14.7
Apr 10	39.3 ⁻⁶ ₁	38.9 ⁻¹⁷ ₁	37.7 ⁻²⁸ ₁	35.7 ⁻³⁹ ₁	33.0 ⁻⁴⁹ ₁	29.6 ⁻⁵⁹ ₁	25.5 ⁻⁶⁷ ₁	20.7 ⁻⁷⁵ ₁	15.5 ⁻⁸¹ ₁	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	5.3 ⁻⁹⁴ ₀	14.7
Apr 11	39.4 ⁻⁶ ₂	39.0 ⁻¹⁷ ₂	37.8 ⁻²⁸ ₂	35.8 ⁻³⁹ ₂	33.1 ⁻⁴⁹ ₂	29.6 ⁻⁵⁹ ₂	25.5 ⁻⁶⁸ ₂	20.8 ⁻⁷⁵ ₂	15.5 ⁻⁸² ₁	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	5.4 ⁻⁹⁴ ₁	14.8
Apr 12	39.6 ⁻⁶ ₃	39.2 ⁻¹⁷ ₃	38.0 ⁻²⁹ ₃	36.0 ⁻³⁹ ₃	33.2 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₃	25.6 ⁻⁶⁸ ₂	20.9 ⁻⁷⁶ ₂	15.6 ⁻⁸² ₂	9.9 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₁	5.4 ⁻⁹⁵ ₁	14.8
Apr 13	39.8 ⁻⁶ ₄	39.4 ⁻¹⁷ ₄	38.2 ⁻²⁹ ₄	36.2 ⁻⁴⁰ ₄	33.4 ⁻⁵⁰ ₃	29.9 ⁻⁶⁰ ₃	25.8 ⁻⁶⁸ ₃	21.0 ⁻⁷⁶ ₃	15.7 ⁻⁸³ ₂	9.9 ⁻⁸⁸ ₂	3.8 ⁻⁹² ₂	5.4 ⁻⁹⁵ ₁	14.9
Apr 14	40.1 ⁻⁶ ₄	39.7 ⁻¹⁸ ₄	38.4 ⁻²⁹ ₄	36.4 ⁻⁴⁰ ₄	33.6 ⁻⁵⁰ ₄	30.1 ⁻⁶⁰ ₄	25.9 ⁻⁶⁹ ₃	21.1 ⁻⁷⁷ ₃	15.8 ⁻⁸³ ₃	10.0 ⁻⁸⁸ ₂	3.8 ⁻⁹³ ₂	5.4 ⁻⁹⁶ ₁	15.0
Apr 15	40.4 ⁻⁶ ₅	40.0 ⁻¹⁸ ₅	38.7 ⁻²⁹ ₅	36.7 ⁻⁴⁰ ₅	33.9 ⁻⁵¹ ₄	30.3 ⁻⁶¹ ₄	26.1 ⁻⁶⁹ ₄	21.3 ⁻⁷⁷ ₃	15.9 ⁻⁸⁴ ₃	10.1 ⁻⁸⁹ ₃	3.9 ⁻⁹⁴ ₂	5.5 ⁻⁹⁷ ₁	15.1
Apr 16	40.7 ⁻⁶ ₅	40.3 ⁻¹⁸ ₅	39.1 ⁻²⁹ ₅	37.0 ⁻⁴¹ ₅	34.2 ⁻⁵¹ ₅	30.6 ⁻⁶¹ ₄	26.3 ⁻⁷⁰ ₄	21.5 ⁻⁷⁸ ₄	16.0 ⁻⁸⁴ ₃	10.2 ⁻⁹⁰ ₃	3.9 ⁻⁹⁵ ₂	5.5 ⁻⁹⁸ ₁	15.3
Apr 17	41.1 ⁻⁶ ₆	40.7 ⁻¹⁸ ₅	39.4 ⁻³⁰ ₅	37.3 ⁻⁴¹ ₅	34.5 ⁻⁵² ₅	30.9 ⁻⁶² ₅	26.6 ⁻⁷¹ ₄	21.7 ⁻⁷⁹ ₄	16.2 ⁻⁸⁵ ₃	10.2 ⁻⁹¹ ₃	3.9 ⁻⁹⁶ ₂	5.6 ⁻⁹⁹ ₂	15.4
Apr 18	41.5 ⁻⁶ ₆	41.0 ⁻¹⁸ ₆	39.8 ⁻³⁰ ₆	37.7 ⁻⁴¹ ₅	34.8 ⁻⁵² ₅	31.2 ⁻⁶² ₅	26.8 ⁻⁷¹ ₄	21.9 ⁻⁷⁹ ₄	16.3 ⁻⁸⁶ ₄	10.3 ⁻⁹² ₃	4.0 ⁻⁹⁶ ₂	5.6 ⁻⁹⁹ ₂	15.5
Apr 19	41.9 ⁻⁶ ₆	41.4 ⁻¹⁸ ₆	40.2 ⁻³⁰ ₆	38.0 ⁻⁴² ₆	35.1 ⁻⁵³ ₅	31.5 ⁻⁶³ ₅	27.1 ⁻⁷² ₅	22.1 ⁻⁸⁰ ₄	16.5 ⁻⁸⁷ ₄	10.4 ⁻⁹² ₃	4.0 ⁻⁹⁷ ₃	5.7 ⁻¹⁰⁰ ₂	15.7
Apr 20	42.3 ⁻⁶ ₆	41.8 ⁻¹⁹ ₆	40.5 ⁻³¹ ₆	38.4 ⁻⁴² ₆	35.5 ⁻⁵³ ₅	31.8 ⁻⁶³ ₅	27.3 ⁻⁷³ ₅	22.3 ⁻⁸¹ ₄	16.7 ⁻⁸⁸ ₄	10.5 ⁻⁹³ ₃	4.0 ⁻⁹⁸ ₃	5.7 ⁻¹⁰¹ ₂	15.8
Apr 21	42.7 ⁻⁶ ₆	42.3 ⁻¹⁹ ₆	40.9 ⁻³¹ ₆	38.8 ⁻⁴³ ₅	35.8 ⁻⁵⁴ ₅	32.1 ⁻⁶⁴ ₅	27.6 ⁻⁷³ ₄	22.5 ⁻⁸² ₄	16.8 ⁻⁸⁹ ₄	10.6 ⁻⁹⁴ ₃	4.1 ⁻⁹⁹ ₂	5.8 ⁻¹⁰² ₂	16.0
Apr 22	43.1 ⁻⁶ ₅	42.6 ⁻¹⁹ ₅	41.3 ⁻³¹ ₅	39.2 ⁻⁴³ ₅	36.2 ⁻⁵⁴ ₄	32.4 ⁻⁶⁵ ₄	27.9 ⁻⁷⁴ ₄	22.7 ⁻⁸² ₄	17.0 ⁻⁸⁹ ₃	10.7 ⁻⁹⁵ ₃	4.1 ⁻¹⁰⁰ ₂	5.9 ⁻¹⁰³ ₁	16.1
Apr 23	43.4 ⁻⁶ ₄	43.0 ⁻¹⁹ ₄	41.7 ⁻³¹ ₄	39.5 ⁻⁴³ ₄	36.4 ⁻⁵⁵ ₃	32.6 ⁻⁶⁵ ₃	28.1 ⁻⁷⁵ ₃	22.9 ⁻⁸³ ₃	17.1 ⁻⁹⁰ ₂	10.8 ⁻⁹⁶ ₂	4.2 ⁻¹⁰¹ ₂	5.9 ⁻¹⁰⁴ ₁	16.3
Apr 24	43.7 ⁻⁶ ₂	43.3 ⁻¹⁹ ₂	41.9 ⁻³² ₂	39.7 ⁻⁴⁴ ₂	36.7 ⁻⁵⁵ ₂	32.8 ⁻⁶⁵ ₂	28.3 ⁻⁷⁵ ₂	23.0 ⁻⁸³ ₁	17.2 ⁻⁹⁰ ₁	10.9 ⁻⁹⁶ ₁	4.2 ⁻¹⁰¹ ₁	5.9 ⁻¹⁰⁴ ₁	16.4
Apr 25	43.8 ⁻⁶ ₀	43.4 ⁻¹⁹ ₀	42.1 ⁻³² ₀	39.8 ⁻⁴⁴ ₀	36.8 ⁻⁵⁵ ₀	32.9 ⁻⁶⁵ ₀	28.4 ⁻⁷⁵ ₀	23.1 ⁻⁸³ ₀	17.3 ⁻⁹¹ ₀	10.9 ⁻⁹⁶ ₀	4.2 ⁻¹⁰¹ ₀	6.0 ⁻¹⁰⁵ ₀	16.4
Apr 26	43.8 ⁻⁶ ₋₃	43.4 ⁻¹⁹ ₋₃	42.0 ⁻³² ₋₃	39.8 ⁻⁴³ ₋₂	36.8 ⁻⁵⁵ ₋₂	32.9 ⁻⁶⁵ ₋₂	28.4 ⁻⁷⁵ ₋₂	23.1 ⁻⁸³ ₋₂	17.3 ⁻⁹⁰ ₋₂	10.9 ⁻⁹⁶ ₋₁	4.2 ⁻¹⁰¹ ₋₁	6.0 ⁻¹⁰⁴ ₋₁	16.4
Apr 27	43.7 ⁻⁶ ₋₅	43.2 ⁻¹⁹ ₋₅	41.9 ⁻³¹ ₋₅	39.7 ⁻⁴³ ₋₅	36.6 ⁻⁵⁴ ₋₄	32.8 ⁻⁶⁵ ₋₄	28.2 ⁻⁷⁴ ₋₄	23.0 ⁻⁸³ ₋₃	17.2 ⁻⁹⁰ ₋₃	10.9 ⁻⁹⁶ ₋₃	4.2 ⁻¹⁰¹ ₋₂	5.9 ⁻¹⁰⁴ ₋₁	16.4
Apr 28	43.3 ⁻⁶ ₋₇	42.9 ⁻¹⁹ ₋₇	41.5 ⁻³¹ ₋₇	39.4 ⁻⁴³ ₋₆	36.3 ⁻⁵⁴ ₋₆	32.5 ⁻⁶⁴ ₋₆	28.0 ⁻⁷⁴ ₋₅	22.8 ⁻⁸² ₋₅	17.1 ⁻⁸⁹ ₋₄	10.8 ⁻⁹⁵ ₋₄	4.1 ⁻¹⁰⁰ ₋₃	5.9 ⁻¹⁰³ ₋₂	16.2
Apr 29	42.8 ⁻⁶ ₋₈	42.4 ⁻¹⁹ ₋₈	41.1 ⁻³¹ ₋₈	38.9 ⁻⁴² ₋₈	35.9 ⁻⁵³ ₋₇	32.2 ⁻⁶⁴ ₋₇	27.7 ⁻⁷³ ₋₆	22.6 ⁻⁸¹ ₋₆	16.9 ⁻⁸⁸ ₋₅	10.7 ⁻⁹⁴ ₋₄	4.1 ⁻⁹⁸ ₋₃	5.8 ⁻¹⁰² ₋₂	16.0
Apr 30	42.3 ⁻⁶ ₋₉	41.8 ⁻¹⁸ ₋₉	40.5 ⁻³⁰ ₋₈	38.4 ⁻⁴² ₋₈	35.5 ⁻⁵³ ₋₈	31.8 ⁻⁶³ ₋₇	27.3 ⁻⁷² ₋₇	22.3 ⁻⁸⁰ ₋₆	16.7 ⁻⁸⁷ ₋₅	10.5 ⁻⁹² ₋₅	4.0 ⁻⁹⁷ ₋₄	5.7 ⁻¹⁰⁰ ₋₂	15.8
May 1	41.7 ⁻⁶ ₋₉	41.2 ⁻¹⁸ ₋₉	40.0 ⁻³⁰ ₋₈	37.9 ⁻⁴¹ ₋₈	35.0 ⁻⁵² ₋₈	31.3 ⁻⁶² ₋₇	27.0 ⁻⁷¹ ₋₇	22.0 ⁻⁷⁹ ₋₆	16.4 ⁻⁸⁵ ₋₅	10.4 ⁻⁹¹ ₋₅	4.0 ⁻⁹⁶ ₋₄	5.7 ⁻⁹⁹ ₋₂	15.6
May 2	41.1 ⁻⁶ ₋₈	40.6 ⁻¹⁸ ₋₈	39.4 ⁻²⁹ ₋₈	37.3 ⁻⁴¹ ₋₇	34.5 ⁻⁵¹ ₋₇	30.9 ⁻⁶¹ ₋₆	26.6 ⁻⁷⁰ ₋₆	21.7 ⁻⁷⁸ ₋₅	16.2 ⁻⁸⁴ ₋₅	10.2 ⁻⁹⁰ ₋₄	3.9 ⁻⁹⁴ ₋₃	5.6 ⁻⁹⁷ ₋₂	15.4
May 3	40.5 ⁻⁶ ₋₇	40.1 ⁻¹⁸ ₋₆	38.9 ⁻²⁹ ₋₆	36.8 ⁻⁴⁰ ₋₆	34.0 ⁻⁵¹ ₋₆	30.5 ⁻⁶⁰ ₋₅	26.2 ⁻⁶⁹ ₋₅	21.4 ⁻⁷⁷ ₋₅	16.0 ⁻⁸³ ₋₄	10.1 ⁻⁸⁹ ₋₃	3.9 ⁻⁹³ ₋₃	5.5 ⁻⁹⁶ ₋₂	15.2
May 4	40.1 ⁻⁶ ₋₅	39.7 ⁻¹⁷ ₋₅	38.4 ⁻²⁹ ₋₅	36.4 ⁻⁴⁰ ₋₅	33.6 ⁻⁵⁰ ₋₄	30.1 ⁻⁶⁰ ₋₄	25.9 ⁻⁶⁸ ₋₄	21.1 ⁻⁷⁶ ₋₃	15.8 ⁻⁸² ₋₃	10.0 ⁻⁸⁸ ₋₃	3.8 ⁻⁹² ₋₂	5.4 ⁻⁹⁵ ₋₁	15.0
May 5	39.7 ⁻⁶ ₋₃	39.3 ⁻¹⁷ ₋₃	38.1 ⁻²⁹ ₋₃	36.1 ⁻³⁹ ₋₃	33.3 ⁻⁵⁰ ₋₃	29.9 ⁻⁵⁹ ₋₃	25.7 ⁻⁶⁸ ₋₂	21.0 ⁻⁷⁵ ₋₂	15.7 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₁	5.4 ⁻⁹⁵ ₋₁	14.9
May 6	39.5 ⁻⁶ ₋₁	39.1 ⁻¹⁷ ₋₁	37.9 ⁻²⁸ ₋₁	35.9 ⁻³⁹ ₋₁	33.2 ⁻⁴⁹ ₋₁	29.7 ⁻⁵⁹ ₋₁	25.6 ⁻⁶⁸ ₋₁	20.8 ⁻⁷⁵ ₋₁	15.6 ⁻⁸² ₋₁	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	5.4 ⁻⁹⁴ ₀	14.8
May 7	39.4 ⁻⁶ ₀	39.0 ⁻¹⁷ ₀	37.8 ⁻²⁸ ₀	35.8 ⁻³⁹ ₀	33.1 ⁻⁴⁹ ₀	29.6 ⁻⁵⁹ ₀	25.5 ⁻⁶⁷ ₀	20.8 ⁻⁷⁵ ₀	15.5 ⁻⁸¹ ₀	9.8 ⁻⁸⁷ ₀	3.8 ⁻⁹¹ ₀	5.4 ⁻⁹⁴ ₀	14.8
May 8	39.5 ⁻⁶ ₂	39.1 ⁻¹⁷ ₂	37.8 ⁻²⁸ ₂	35.9 ⁻³⁹ ₂	33.1 ⁻⁵⁰ ₂	29.6 ⁻⁵⁹ ₂	25.5 ⁻⁶⁸ ₁	20.8 ⁻⁷⁵ ₁	15.5 ⁻⁸² ₁	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	5.4 ⁻⁹⁴ ₁	14.8
May 9	39.6 ⁻⁶ ₃	39.2 ⁻¹⁷ ₃	38.0 ⁻²⁹ ₃	36.0 ⁻³⁹ ₃	33.2 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₃	25.6 ⁻⁶⁸ ₃	20.9 ⁻⁷⁶ ₂	15.6 ⁻⁸² ₂	9.9 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₁	5.4 ⁻⁹⁵ ₁	14.8
May 10	39.8 ⁻⁶ ₄	39.4 ⁻¹⁷ ₄	38.2 ⁻²⁹ ₄	36.2 ⁻⁴⁰ ₄	33.4 ⁻⁵⁰ ₄	29.9 ⁻⁶⁰ ₄	25.8 ⁻⁶⁸ ₃	21.0 ⁻⁷⁶ ₃	15.7 ⁻⁸³ ₃	9.9 ⁻⁸⁸ ₂	3.8 ⁻⁹³ ₂	5.4 ⁻⁹⁵ ₁	14.9
May 11	40.1 ⁻⁶ ₅	39.7 ⁻¹⁸ ₅	38.5 ⁻²⁹ ₅	36.5 ⁻⁴⁰ ₅	33.7 ⁻⁵⁰ ₅	30.1 ⁻⁶⁰ ₄	26.0 ⁻⁶⁹ ₄	21.2 ⁻⁷⁷ ₄	15.8 ⁻⁸³ ₃	10.0 ⁻⁸⁹ ₃	3.8 ⁻⁹³ ₂	5.5 ⁻⁹⁶ ₁	15.0
May 12	40.5 ⁻⁶ ₆	40.1 ⁻¹⁸ ₅	38.8 ⁻²⁹ ₅	36.8 ⁻⁴⁰ ₅	34.0 ⁻⁵¹ ₅	30.4 ⁻⁶¹ ₅	26.2 ⁻⁷⁰ ₄	21.3 ⁻⁷⁷ ₄	15.9 ⁻⁸⁴ ₃	10.1 ⁻⁸⁹ ₃	3.9 ⁻⁹⁴ ₂	5.5 ⁻⁹⁷ ₂	15.2
May 13	40.9 ⁻⁶ ₆	40.4 ⁻¹⁸ ₆	39.2 ⁻³⁰ ₅	37.1 ⁻⁴¹ ₅	34.3 ⁻⁵¹ ₅	30.7 ⁻⁶¹ ₅	26.4 ⁻⁷⁰ ₄	21.5 ⁻⁷⁸ ₄	16.1 ⁻⁸⁵ ₃	10.2 ⁻⁹⁰ ₃	3.9 ⁻⁹⁵ ₂	5.6 ⁻⁹⁸ ₂	15.3
May 14	41.2 ⁻⁶ ₅	40.8 ⁻¹⁸ ₅	39.6 ⁻³⁰ ₅	37.5 ⁻⁴¹ ₅	34.6 ⁻⁵² ₅	31.0 ⁻⁶² ₅	26.7 ⁻⁷¹ ₄	21.7 ⁻⁷⁹ ₄	16.3 ⁻⁸⁶ ₃	10.3 ⁻⁹¹ ₃	3.9 ⁻⁹⁶ ₂	5.6 ⁻⁹⁹ ₂	15.4
May 15	41.6 ⁻⁶ ₅	41.2 ⁻¹⁸ ₅	39.9 ⁻³⁰ ₅										

2006

Moon Parallax and Semi-diameter

Table with columns for dates (May 19 to Jul 3) and altitudes (0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 80, 90 degrees). Each cell contains Moon parallax and semi-diameter values with error indicators.

2006

Moon Parallax and Semi-diameter

		Upper Limb																																									
		Altitude degrees																																									
		0			7			14			21			28			35			42			49			56			63			70			80			90					
		'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Jul 4	4	39.7	-6	5	39.3	-17	5	38.1	-29	5	36.1	-40	4	33.3	-50	4	29.8	-60	4	25.7	-68	4	20.9	-76	3	15.7	-82	3	9.9	-88	2	3.8	-92	2	-5.4	-95	1	-14.9					
Jul 5	5	40.0	-6	6	39.6	-18	6	38.4	-29	6	36.4	-40	6	33.6	-50	6	30.1	-60	5	25.9	-69	5	21.1	-77	4	15.8	-83	4	10.0	-89	3	3.8	-93	3	-5.4	-96	2	-15.0					
Jul 6	6	40.5	-6	8	40.1	-18	7	38.8	-29	7	36.8	-41	7	34.0	-51	7	30.4	-61	6	26.2	-70	6	21.3	-77	5	16.0	-84	5	10.1	-90	4	3.9	-94	3	-5.5	-97	2	-15.2					
Jul 7	7	41.0	-6	8	40.6	-18	8	39.3	-30	8	37.3	-41	8	34.4	-52	7	30.8	-62	7	26.5	-71	6	21.6	-79	6	16.2	-85	5	10.2	-91	4	3.9	-96	4	-5.6	-99	2	-15.4					
Jul 8	8	41.6	-6	9	41.2	-18	8	39.9	-30	8	37.8	-42	8	34.9	-52	8	31.2	-63	7	26.9	-72	7	21.9	-80	6	16.4	-87	5	10.4	-92	5	4.0	-97	4	-5.6	-100	2	-15.6					
Jul 9	9	42.2	-6	8	41.7	-19	8	40.4	-31	8	38.3	-42	8	35.4	-53	7	31.7	-63	7	27.3	-73	6	22.2	-81	6	16.6	-88	5	10.5	-93	4	4.0	-98	3	-5.7	-101	2	-15.8					
Jul 10	10	42.7	-6	7	42.3	-19	7	41.0	-31	7	38.8	-43	6	35.9	-54	6	32.1	-64	6	27.6	-73	5	22.5	-82	5	16.8	-89	4	10.7	-94	4	4.1	-99	3	-5.8	-103	2	-16.0					
Jul 11	11	43.2	-6	5	42.8	-19	5	41.4	-31	5	39.3	-43	5	36.2	-54	5	32.5	-65	4	27.9	-74	4	22.8	-83	4	17.0	-90	3	10.8	-95	3	4.1	-100	2	-5.9	-104	1	-16.2					
Jul 12	12	43.6	-6	3	43.1	-19	3	41.8	-31	3	39.6	-43	3	36.5	-55	3	32.7	-65	2	28.2	-75	2	23.0	-83	2	17.2	-90	2	10.9	-96	2	4.2	-101	1	-5.9	-104	1	-16.3					
Jul 13	13	43.7	-6	1	43.3	-19	1	42.0	-32	1	39.8	-44	1	36.7	-55	0	32.9	-65	0	28.3	-75	0	23.1	-83	0	17.2	-90	0	10.9	-96	0	4.2	-101	0	-5.9	-104	0	-16.4					
Jul 14	14	43.8	-6	-2	43.3	-19	-2	42.0	-32	-2	39.8	-43	-1	36.7	-55	-1	32.9	-65	-1	28.3	-75	-1	23.1	-83	-1	17.3	-90	-1	10.9	-96	-1	4.2	-101	-1	-5.9	-104	0	-16.4					
Jul 15	15	43.7	-6	-3	43.2	-19	-3	41.9	-31	-3	39.7	-43	-3	36.6	-55	-3	32.8	-65	-3	28.3	-74	-3	23.0	-83	-2	17.2	-90	-2	10.9	-96	-2	4.2	-101	-1	-5.9	-104	-1	-16.4					
Jul 16	16	43.4	-6	-5	43.0	-19	-5	41.7	-31	-4	39.5	-43	-4	36.5	-54	-4	32.6	-65	-4	28.1	-74	-4	22.9	-82	-3	17.1	-89	-3	10.8	-95	-2	4.2	-100	-2	-5.9	-103	-1	-16.3					
Jul 17	17	43.1	-6	-5	42.7	-19	-5	41.4	-31	-5	39.2	-43	-5	36.2	-54	-5	32.4	-64	-4	27.9	-73	-4	22.7	-82	-4	17.0	-89	-3	10.8	-94	-3	4.1	-99	-2	-5.9	-102	-2	-16.2					
Jul 18	18	42.8	-6	-6	42.3	-19	-6	41.0	-31	-6	38.9	-42	-5	35.9	-53	-5	32.1	-64	-5	27.7	-73	-4	22.5	-81	-4	16.8	-88	-4	10.7	-94	-3	4.1	-98	-2	-5.8	-102	-2	-16.0					
Jul 19	19	42.4	-6	-6	41.9	-18	-6	40.6	-30	-6	38.5	-42	-5	35.5	-53	-5	31.8	-63	-5	27.4	-72	-4	22.3	-80	-4	16.7	-87	-4	10.6	-93	-3	4.0	-98	-2	-5.8	-101	-2	-15.9					
Jul 20	20	42.0	-6	-6	41.5	-18	-6	40.2	-30	-6	38.1	-42	-5	35.2	-52	-5	31.5	-62	-5	27.1	-71	-4	22.1	-79	-4	16.5	-86	-4	10.5	-92	-3	4.0	-97	-2	-5.7	-100	-2	-15.7					
Jul 21	21	41.6	-6	-6	41.1	-18	-6	39.9	-30	-5	37.8	-41	-5	34.9	-52	-5	31.2	-62	-5	26.9	-71	-4	21.9	-79	-4	16.4	-85	-3	10.4	-91	-3	4.0	-96	-2	-5.6	-99	-2	-15.6					
Jul 22	22	41.2	-6	-5	40.8	-18	-5	39.5	-30	-5	37.4	-41	-5	34.6	-51	-5	30.9	-61	-4	26.6	-70	-4	21.7	-78	-4	16.2	-85	-3	10.3	-90	-3	3.9	-95	-2	-5.6	-98	-2	-15.4					
Jul 23	23	40.8	-6	-5	40.4	-18	-5	39.1	-29	-5	37.1	-40	-5	34.2	-51	-4	30.7	-61	-4	26.4	-69	-4	21.5	-77	-3	16.1	-84	-3	10.2	-89	-3	3.9	-94	-2	-5.5	-97	-1	-15.3					
Jul 24	24	40.5	-6	-5	40.0	-18	-5	38.8	-29	-4	36.8	-40	-4	34.0	-50	-4	30.4	-60	-4	26.2	-69	-4	21.3	-77	-3	15.9	-83	-3	10.1	-89	-2	3.9	-93	-2	-5.5	-96	-1	-15.2					
Jul 25	25	40.1	-6	-4	39.7	-17	-4	38.5	-29	-4	36.5	-40	-4	33.7	-50	-4	30.2	-60	-3	26.0	-68	-3	21.2	-76	-3	15.8	-83	-3	10.0	-88	-2	3.8	-93	-2	-5.5	-95	-1	-15.0					
Jul 26	26	39.9	-6	-3	39.5	-17	-3	38.2	-29	-3	36.2	-40	-3	33.4	-50	-3	30.0	-59	-3	25.8	-68	-3	21.0	-76	-2	15.7	-82	-2	9.9	-87	-2	3.8	-92	-1	-5.4	-95	-1	-14.9					
Jul 27	27	39.6	-6	-3	39.2	-17	-2	38.0	-29	-2	36.0	-39	-2	33.3	-50	-2	29.8	-59	-2	25.6	-68	-2	20.9	-75	-2	15.6	-82	-2	9.9	-87	-1	3.8	-92	-1	-5.4	-94	-1	-14.8					
Jul 28	28	39.5	-6	-1	39.1	-17	-1	37.8	-28	-1	35.9	-39	-1	33.1	-49	-1	29.6	-59	-1	25.5	-67	-1	20.8	-75	-1	15.5	-81	-1	9.8	-87	-1	3.8	-91	-1	-5.4	-94	0	-14.8					
Jul 29	29	39.4	-6	0	39.0	-17	0	37.8	-28	0	35.8	-39	0	33.0	-49	0	29.6	-59	0	25.5	-67	0	20.8	-75	0	15.5	-81	0	9.8	-87	0	3.8	-91	0	-5.3	-94	0	-14.7					
Jul 30	30	39.4	-6	1	39.0	-17	1	37.7	-28	1	35.8	-39	1	33.0	-49	1	29.6	-59	1	25.5	-67	1	20.7	-75	1	15.5	-81	1	9.8	-87	1	3.8	-91	1	-5.3	-94	0	-14.7					
Jul 31	31	39.5	-6	3	39.1	-17	3	37.8	-29	3	35.9	-39	3	33.1	-50	3	29.6	-59	3	25.5	-68	2	20.8	-75	2	15.5	-82	2	9.8	-87	2	3.8	-92	1	-5.4	-94	1	-14.8					
Aug 1	1	39.7	-6	5	39.3	-17	5	38.1	-29	5	36.0	-40	5	33.3	-50	4	29.8	-59	4	25.7	-68	4	20.9	-76	3	15.6	-82	3	9.9	-88	3	3.8	-92	2	-5.4	-95	1	-14.9					
Aug 2	2	40.0	-6	7	39.6	-18	6	38.4	-29	6	36.4	-40	6	33.6	-50	6	30.1	-60	5	25.9	-69	5	21.1	-77	5	15.8	-83	4	10.0	-88	3	3.8	-93	3	-5.4	-96	2	-15.0					
Aug 3	3	40.5	-6	8	40.0	-18	8	38.8	-29	8	36.8	-41	7	33.9	-51	7	30.4	-61	7	26.2	-70	6	21.3	-77	6	15.9	-84	5	10.1	-90	4	3.9	-94	3	-5.5	-97	2	-15.2					
Aug 4	4	41.0	-6	9	40.6	-18	9	39.3	-30	9	37.3	-41	9	34.4	-52	8	30.8	-62	8	26.5	-71	7	21.6	-79	6	16.2	-85	6	10.2	-91	5	3.9	-96	4	-5.6	-99	3	-15.4					
Aug 5	5	41.6	-6	10	41.2	-18	10	39.9	-30	9	37.8	-42	9	34.9	-53	9	31.3	-63	8	26.9	-72	7	22.0	-80	7	16.4	-87	6	10.4	-92	5	4.0	-97	4	-5.7	-100	3	-15.6					
Aug 6	6	42.3	-6	10	41.9	-19	9	40.6	-31	9	38.4	-42	9	35.5	-53	8	31.8	-64	8	27.4	-73	7	22.3	-81	7	16.7	-88	6	10.6	-94	5	4.0	-99	4	-5.7	-102	3	-15.8					
Aug 7	7	43.0	-6	9	42.5	-19	8	41.2	-31	8	39.0	-43	8	36.1	-54	8	32.3	-65	7	27.8	-74	7	22.7	-82	6	16.9	-89	5	10.7	-95	5	4.1	-100	4	-5.8	-103	2	-16.1					
Aug 8	8	43.6	-6	7	43.1	-19	7	41.8	-32	6	39.6	-44	6	36.5	-55	6	32.7	-65	5	28.2	-75	5	23.0	-83	5	17.2	-90	4	10.9	-96	3	4.2	-101	3	-5.9	-105	2	-16.3					
Aug 9	9	44.0	-6	4	43.6	-19	4	42.2	-32	4	40.0	-44	4	36.9	-55	3	33.1	-66	3	28.5	-75	3	23.2	-84	3	17.3	-91	2	11.0	-97	2	4.2	-102	2	-6.0	-105	1	-16.5					
Aug 10	10	44.3	-6	1	43.8	-19	1	42.5	-32	1	40.2	-44	1	37.2	-56	1	33.3	-66	1	28.6	-76	1	23.3	-84	1	17.4	-92	1	11.0	-97	0	4.2	-103	0	-6.0	-106	0	-16.6					
Aug 11	11	44.3	-6	-2	43.9	-19	-2	42.5	-32	-2	40.3	-44	-2	37.2	-55	-2	33.3	-66	-2	28.7	-76	-2	23.4	-84	-2	17.5	-91	-1	11.1	-97	-1	4.2	-102	-1	-6.0	-106	-1	-16.6					
Aug 12	12	44.2	-6	-5	43.7	-19	-5	42.4	-32	-5	40.2	-44	-4	37.1	-55	-4	33.2	-66	-4	28.6	-75	-4	23.3	-84	-3	17.4	-91	-3	11.0	-97	-3	4.2	-102	-2	-6.0	-105	-1	-16.6					
Aug 13	13	43.9	-6	-7	43.4	-19	-7	42.1	-31	-6	39.9	-43	-6	36.8	-55	-6	33.0	-65	-6	28.4	-75	-5																					

2006

Moon Parallax and Semi-diameter

Lower Limb																																					
Altitude degrees																																					
	0		7		14		21		28		35		42		49		56		63		70		80		90												
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	
Aug 19	71.4	⁻⁶	₋₆	71.0	⁻¹⁸	₋₆	69.7	⁻²⁹	₋₆	67.7	⁻⁴⁰	₋₅	64.8	⁻⁵¹	₋₅	61.2	⁻⁶¹	₋₅	57.0	⁻⁶⁹	₋₄	52.1	⁻⁷⁷	₋₄	46.7	⁻⁸⁴	₋₄	40.8	⁻⁸⁹	₋₃	34.5	⁻⁹⁴	₋₂	25.0	⁻⁹⁷	₋₂	15.3
Aug 20	70.7	⁻⁶	₋₅	70.3	⁻¹⁸	₋₅	69.0	⁻²⁹	₋₅	67.0	⁻⁴⁰	₋₅	64.2	⁻⁵⁰	₋₄	60.6	⁻⁶⁰	₋₄	56.4	⁻⁶⁹	₋₄	51.6	⁻⁷⁷	₋₃	46.2	⁻⁸³	₋₃	40.4	⁻⁸⁸	₋₃	34.1	⁻⁹³	₋₂	24.8	⁻⁹⁶	₋₁	15.1
Aug 21	70.1	⁻⁶	₋₄	69.7	⁻¹⁷	₋₄	68.5	⁻²⁹	₋₄	66.4	⁻⁴⁰	₋₄	63.7	⁻⁵⁰	₋₄	60.1	⁻⁶⁰	₋₃	56.0	⁻⁶⁸	₋₃	51.2	⁻⁷⁶	₋₃	45.8	⁻⁸³	₋₂	40.0	⁻⁸⁸	₋₂	33.9	⁻⁹²	₋₂	24.6	⁻⁹⁵	₋₁	15.0
Aug 22	69.6	⁻⁶	₋₃	69.2	⁻¹⁷	₋₃	68.0	⁻²⁹	₋₃	66.0	⁻³⁹	₋₃	63.2	⁻⁵⁰	₋₃	59.7	⁻⁵⁹	₋₃	55.6	⁻⁶⁸	₋₂	50.8	⁻⁷⁵	₋₂	45.5	⁻⁸²	₋₂	39.7	⁻⁸⁷	₋₂	33.6	⁻⁹²	₋₁	24.4	⁻⁹⁵	₋₁	14.9
Aug 23	69.2	⁻⁶	₋₂	68.8	⁻¹⁷	₋₂	67.6	⁻²⁸	₋₂	65.6	⁻³⁹	₋₂	62.9	⁻⁴⁹	₋₂	59.4	⁻⁵⁹	₋₂	55.3	⁻⁶⁸	₋₂	50.5	⁻⁷⁵	₋₂	45.2	⁻⁸²	₋₁	39.5	⁻⁸⁷	₋₁	33.4	⁻⁹¹	₋₁	24.3	⁻⁹⁴	₋₁	14.8
Aug 24	68.9	⁻⁶	₋₂	68.5	⁻¹⁷	₋₂	67.3	⁻²⁸	₋₂	65.3	⁻³⁹	₋₁	62.6	⁻⁴⁹	₋₁	59.1	⁻⁵⁹	₋₁	55.0	⁻⁶⁷	₋₁	50.3	⁻⁷⁵	₋₁	45.1	⁻⁸¹	₋₁	39.4	⁻⁸⁷	₋₁	33.3	⁻⁹¹	₋₁	24.2	⁻⁹⁴	₀	14.8
Aug 25	68.7	⁻⁶	₋₁	68.3	⁻¹⁷	₋₁	67.1	⁻²⁸	₋₁	65.2	⁻³⁹	₋₁	62.4	⁻⁴⁹	₋₁	59.0	⁻⁵⁹	₀	54.9	⁻⁶⁷	₀	50.2	⁻⁷⁵	₀	44.9	⁻⁸¹	₀	39.2	⁻⁸⁶	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7
Aug 26	68.7	⁻⁶	₀	68.3	⁻¹⁷	₀	67.1	⁻²⁸	₀	65.1	⁻³⁹	₀	62.4	⁻⁴⁹	₀	58.9	⁻⁵⁹	₀	54.8	⁻⁶⁷	₀	50.1	⁻⁷⁵	₀	44.9	⁻⁸¹	₀	39.2	⁻⁸⁶	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7
Aug 27	68.7	⁻⁶	₂	68.3	⁻¹⁷	₂	67.1	⁻²⁸	₂	65.1	⁻³⁹	₂	62.4	⁻⁴⁹	₂	59.0	⁻⁵⁹	₁	54.9	⁻⁶⁷	₁	50.2	⁻⁷⁵	₁	44.9	⁻⁸¹	₁	39.2	⁻⁸⁷	₁	33.2	⁻⁹¹	₁	24.1	⁻⁹⁴	₀	14.7
Aug 28	68.9	⁻⁶	₃	68.5	⁻¹⁷	₃	67.3	⁻²⁹	₃	65.3	⁻³⁹	₃	62.6	⁻⁵⁰	₃	59.1	⁻⁵⁹	₃	55.0	⁻⁶⁸	₂	50.3	⁻⁷⁵	₂	45.1	⁻⁸²	₂	39.4	⁻⁸⁷	₂	33.3	⁻⁹¹	₁	24.2	⁻⁹⁴	₁	14.8
Aug 29	69.3	⁻⁶	₅	68.9	⁻¹⁷	₅	67.7	⁻²⁹	₄	65.7	⁻⁴⁰	₄	62.9	⁻⁵⁰	₄	59.5	⁻⁵⁹	₄	55.3	⁻⁶⁸	₄	50.6	⁻⁷⁶	₃	45.3	⁻⁸²	₃	39.6	⁻⁸⁷	₂	33.5	⁻⁹²	₂	24.3	⁻⁹⁵	₁	14.8
Aug 30	69.9	⁻⁶	₆	69.5	⁻¹⁸	₆	68.3	⁻²⁹	₆	66.2	⁻⁴⁰	₆	63.5	⁻⁵⁰	₅	60.0	⁻⁶⁰	₅	55.8	⁻⁶⁹	₅	51.0	⁻⁷⁶	₄	45.7	⁻⁸³	₄	39.9	⁻⁸⁸	₃	33.7	⁻⁹³	₃	24.5	⁻⁹⁶	₂	15.0
Aug 31	70.6	⁻⁶	₈	70.2	⁻¹⁸	₈	69.0	⁻²⁹	₇	66.9	⁻⁴⁰	₇	64.1	⁻⁵¹	₇	60.6	⁻⁶¹	₆	56.4	⁻⁷⁰	₆	51.5	⁻⁷⁷	₅	46.2	⁻⁸⁴	₅	40.3	⁻⁸⁹	₄	34.1	⁻⁹⁴	₃	24.8	⁻⁹⁷	₂	15.1
Sep 1	71.6	⁻⁶	₉	71.1	⁻¹⁸	₉	69.9	⁻³⁰	₉	67.8	⁻⁴¹	₈	65.0	⁻⁵²	₈	61.4	⁻⁶²	₇	57.1	⁻⁷⁰	₇	52.2	⁻⁷⁸	₆	46.8	⁻⁸⁵	₆	40.9	⁻⁹¹	₅	34.6	⁻⁹⁵	₄	25.1	⁻⁹⁸	₃	15.3
Sep 2	72.6	⁻⁶	₁₀	72.2	⁻¹⁸	₁₀	71.0	⁻³⁰	₁₀	68.9	⁻⁴²	₉	66.0	⁻⁵²	₉	62.3	⁻⁶³	₈	58.0	⁻⁷²	₈	53.0	⁻⁸⁰	₇	47.5	⁻⁸⁷	₆	41.5	⁻⁹²	₅	35.1	⁻⁹⁷	₄	25.5	⁻¹⁰⁰	₃	15.6
Sep 3	73.8	⁻⁶	₁₀	73.4	⁻¹⁹	₁₀	72.1	⁻³¹	₁₀	70.0	⁻⁴²	₉	67.0	⁻⁵³	₉	63.3	⁻⁶⁴	₈	58.9	⁻⁷³	₈	53.9	⁻⁸¹	₇	48.3	⁻⁸⁸	₆	42.2	⁻⁹⁴	₅	35.7	⁻⁹⁹	₄	25.9	⁻¹⁰²	₃	15.8
Sep 4	75.1	⁻⁶	₁₀	74.6	⁻¹⁹	₉	73.3	⁻³¹	₉	71.1	⁻⁴³	₉	68.2	⁻⁵⁴	₉	64.4	⁻⁶⁵	₈	59.9	⁻⁷⁴	₇	54.8	⁻⁸²	₇	49.1	⁻⁸⁹	₆	42.9	⁻⁹⁵	₅	36.2	⁻¹⁰⁰	₄	26.3	⁻¹⁰³	₃	16.1
Sep 5	76.2	⁻⁶	₈	75.8	⁻¹⁹	₈	74.4	⁻³²	₈	72.2	⁻⁴⁴	₇	69.2	⁻⁵⁵	₇	65.4	⁻⁶⁵	₇	60.8	⁻⁷⁵	₆	55.6	⁻⁸³	₆	49.8	⁻⁹¹	₅	43.5	⁻⁹⁶	₄	36.8	⁻¹⁰¹	₃	26.7	⁻¹⁰⁵	₂	16.3
Sep 6	77.2	⁻⁶	₅	76.7	⁻¹⁹	₅	75.4	⁻³²	₅	73.2	⁻⁴⁴	₅	70.1	⁻⁵⁶	₅	66.2	⁻⁶⁶	₅	61.6	⁻⁷⁶	₄	56.3	⁻⁸⁴	₄	50.4	⁻⁹²	₃	44.1	⁻⁹⁷	₃	37.3	⁻¹⁰³	₂	27.1	⁻¹⁰⁶	₂	16.5
Sep 7	77.8	⁻⁷	₂	77.4	⁻¹⁹	₂	76.0	⁻³²	₂	73.8	⁻⁴⁴	₂	70.7	⁻⁵⁶	₂	66.8	⁻⁶⁷	₂	62.1	⁻⁷⁶	₂	56.8	⁻⁸⁵	₂	50.9	⁻⁹²	₁	44.4	⁻⁹⁸	₁	37.6	⁻¹⁰³	₁	27.3	⁻¹⁰⁶	₁	16.7
Sep 8	78.1	⁻⁷	₋₁	77.7	⁻¹⁹	₋₁	76.3	⁻³²	₋₁	74.0	⁻⁴⁴	₋₁	70.9	⁻⁵⁶	₋₁	67.0	⁻⁶⁷	₋₁	62.3	⁻⁷⁶	₋₁	57.0	⁻⁸⁵	₋₁	51.1	⁻⁹²	₋₁	44.6	⁻⁹⁸	₋₁	37.7	⁻¹⁰³	₋₁	27.4	⁻¹⁰⁶	₀	16.7
Sep 9	78.0	⁻⁷	₋₅	77.5	⁻¹⁹	₋₅	76.1	⁻³²	₋₄	73.9	⁻⁴⁴	₋₄	70.8	⁻⁵⁶	₋₄	66.9	⁻⁶⁶	₋₄	62.2	⁻⁷⁶	₋₄	56.9	⁻⁸⁴	₋₃	51.0	⁻⁹²	₋₃	44.5	⁻⁹⁸	₋₂	37.6	⁻¹⁰³	₋₂	27.3	⁻¹⁰⁶	₋₁	16.7
Sep 10	77.4	⁻⁶	₋₇	77.0	⁻¹⁹	₋₇	75.6	⁻³²	₋₇	73.4	⁻⁴⁴	₋₇	70.3	⁻⁵⁵	₋₆	66.4	⁻⁶⁶	₋₆	61.8	⁻⁷⁵	₋₆	56.5	⁻⁸⁴	₋₅	50.6	⁻⁹¹	₋₄	44.2	⁻⁹⁷	₋₄	37.4	⁻¹⁰²	₋₃	27.1	⁻¹⁰⁵	₋₂	16.6
Sep 11	76.5	⁻⁶	₋₉	76.1	⁻¹⁹	₋₉	74.8	⁻³¹	₋₉	72.5	⁻⁴³	₋₈	69.5	⁻⁵⁴	₋₈	65.7	⁻⁶⁵	₋₇	61.1	⁻⁷⁴	₋₇	55.8	⁻⁸³	₋₆	50.0	⁻⁹⁰	₋₅	43.7	⁻⁹⁶	₋₅	37.0	⁻¹⁰¹	₋₄	26.8	⁻¹⁰⁴	₋₃	16.4
Sep 12	75.5	⁻⁶	₋₁₀	75.0	⁻¹⁹	₋₁₀	73.7	⁻³¹	₋₉	71.5	⁻⁴³	₋₉	68.5	⁻⁵⁴	₋₉	64.7	⁻⁶⁴	₋₈	60.2	⁻⁷³	₋₇	55.1	⁻⁸¹	₋₇	49.3	⁻⁸⁸	₋₆	43.1	⁻⁹⁴	₋₅	36.4	⁻⁹⁹	₋₄	26.5	⁻¹⁰²	₋₃	16.2
Sep 13	74.3	⁻⁶	₋₁₀	73.9	⁻¹⁸	₋₉	72.6	⁻³⁰	₋₉	70.4	⁻⁴²	₋₉	67.5	⁻⁵³	₋₈	63.7	⁻⁶³	₋₈	59.3	⁻⁷²	₋₇	54.2	⁻⁸⁰	₋₇	48.6	⁻⁸⁷	₋₆	42.4	⁻⁹³	₋₅	35.9	⁻⁹⁸	₋₄	26.0	⁻¹⁰¹	₋₃	15.9
Sep 14	73.2	⁻⁶	₋₉	72.7	⁻¹⁸	₋₉	71.4	⁻³⁰	₋₉	69.3	⁻⁴¹	₋₈	66.4	⁻⁵²	₋₈	62.8	⁻⁶²	₋₇	58.4	⁻⁷¹	₋₇	53.4	⁻⁷⁹	₋₆	47.8	⁻⁸⁶	₋₅	41.8	⁻⁹¹	₋₅	35.3	⁻⁹⁶	₋₄	25.6	⁻⁹⁹	₋₃	15.7
Sep 15	72.1	⁻⁶	₋₈	71.7	⁻¹⁸	₋₈	70.4	⁻³⁰	₋₈	68.3	⁻⁴¹	₋₇	65.5	⁻⁵¹	₋₇	61.8	⁻⁶¹	₋₆	57.5	⁻⁷⁰	₋₆	52.6	⁻⁷⁸	₋₅	47.1	⁻⁸⁵	₋₅	41.2	⁻⁹⁰	₋₄	34.8	⁻⁹⁵	₋₃	25.3	⁻⁹⁸	₋₂	15.4
Sep 16	71.1	⁻⁶	₋₇	70.7	⁻¹⁸	₋₆	69.5	⁻²⁹	₋₆	67.4	⁻⁴⁰	₋₆	64.6	⁻⁵¹	₋₆	61.0	⁻⁶⁰	₋₅	56.8	⁻⁶⁹	₋₅	51.9	⁻⁷⁷	₋₅	46.5	⁻⁸⁴	₋₄	40.6	⁻⁸⁹	₋₃	34.4	⁻⁹⁴	₋₃	24.9	⁻⁹⁷	₋₂	15.2
Sep 17	70.4	⁻⁶	₋₅	69.9	⁻¹⁷	₋₅	68.7	⁻²⁹	₋₅	66.7	⁻⁴⁰	₋₅	63.9	⁻⁵⁰	₋₅	60.4	⁻⁶⁰	₋₄	56.2	⁻⁶⁸	₋₄	51.3	⁻⁷⁶	₋₄	46.0	⁻⁸³	₋₃	40.2	⁻⁸⁸	₋₃	34.0	⁻⁹³	₋₂	24.7	⁻⁹⁶	₋₁	15.1
Sep 18	69.7	⁻⁶	₋₄	69.3	⁻¹⁷	₋₄	68.1	⁻²⁹	₋₄	66.1	⁻⁴⁰	₋₄	63.3	⁻⁵⁰	₋₃	59.8	⁻⁵⁹	₋₃	55.7	⁻⁶⁸	₋₃	50.9	⁻⁷⁶	₋₃	45.6	⁻⁸²	₋₂	39.8	⁻⁸⁷	₋₂	33.7	⁻⁹²	₋₂	24.4	⁻⁹⁵		

2006

Moon Parallax and Semi-diameter

Upper Limb																																													
Altitude degrees																																													
	0			7			14			21			28			35			42			49			56			63			70			80			90								
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Aug 19	40.8	⁻⁶	₋₆	40.4	⁻¹⁸	₋₆	39.1	⁻²⁹	₋₆	37.1	⁻⁴⁰	₋₅	34.2	⁻⁵¹	₋₅	30.7	⁻⁶¹	₋₅	26.4	⁻⁶⁹	₋₄	21.5	⁻⁷⁷	₋₄	16.1	⁻⁸⁴	₋₄	10.2	⁻⁸⁹	₋₃	3.9	⁻⁹⁴	₋₂	-5.5	⁻⁹⁷	₋₂	-15.3								
Aug 20	40.4	⁻⁶	₋₅	40.0	⁻¹⁸	₋₅	38.8	⁻²⁹	₋₅	36.7	⁻⁴⁰	₋₅	33.9	⁻⁵⁰	₋₄	30.4	⁻⁶⁰	₋₄	26.1	⁻⁶⁹	₋₄	21.3	⁻⁷⁷	₋₃	15.9	⁻⁸³	₋₃	10.1	⁻⁸⁸	₋₃	3.9	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₁	-15.1								
Aug 21	40.1	⁻⁶	₋₄	39.7	⁻¹⁷	₋₄	38.4	⁻²⁹	₋₄	36.4	⁻⁴⁰	₋₄	33.6	⁻⁵⁰	₋₄	30.1	⁻⁶⁰	₋₃	25.9	⁻⁶⁸	₋₃	21.1	⁻⁷⁶	₋₃	15.8	⁻⁸³	₋₂	10.0	⁻⁸⁸	₋₂	3.8	⁻⁹²	₋₂	-5.4	⁻⁹⁵	₋₁	-15.0								
Aug 22	39.8	⁻⁶	₋₃	39.4	⁻¹⁷	₋₃	38.2	⁻²⁹	₋₃	36.2	⁻³⁹	₋₃	33.4	⁻⁵⁰	₋₃	29.9	⁻⁵⁹	₋₃	25.7	⁻⁶⁸	₋₂	21.0	⁻⁷⁵	₋₂	15.7	⁻⁸²	₋₂	9.9	⁻⁸⁷	₋₂	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁵	₋₁	-14.9								
Aug 23	39.6	⁻⁶	₋₂	39.2	⁻¹⁷	₋₂	38.0	⁻²⁸	₋₂	36.0	⁻³⁹	₋₂	33.2	⁻⁴⁹	₋₂	29.7	⁻⁵⁹	₋₂	25.6	⁻⁶⁸	₋₂	20.9	⁻⁷⁵	₋₂	15.6	⁻⁸²	₋₁	9.9	⁻⁸⁷	₋₁	3.8	⁻⁹¹	₋₁	-5.4	⁻⁹⁴	₋₁	-14.8								
Aug 24	39.4	⁻⁶	₋₂	39.0	⁻¹⁷	₋₂	37.8	⁻²⁸	₋₂	35.8	⁻³⁹	₋₁	33.1	⁻⁴⁹	₋₁	29.6	⁻⁵⁹	₋₁	25.5	⁻⁶⁷	₋₁	20.8	⁻⁷⁵	₋₁	15.5	⁻⁸¹	₋₁	9.8	⁻⁸⁷	₋₁	3.8	⁻⁹¹	₋₁	-5.4	⁻⁹⁴	₀	-14.8								
Aug 25	39.3	⁻⁶	₋₁	38.9	⁻¹⁷	₋₁	37.7	⁻²⁸	₋₁	35.7	⁻³⁹	₋₁	33.0	⁻⁴⁹	₋₁	29.5	⁻⁵⁹	₀	25.4	⁻⁶⁷	₀	20.7	⁻⁷⁵	₀	15.5	⁻⁸¹	₀	9.8	⁻⁸⁶	₀	3.8	⁻⁹¹	₀	-5.3	⁻⁹⁴	₀	-14.7								
Aug 26	39.3	⁻⁶	₀	38.9	⁻¹⁷	₀	37.7	⁻²⁸	₀	35.7	⁻³⁹	₀	32.9	⁻⁴⁹	₀	29.5	⁻⁵⁹	₀	25.4	⁻⁶⁷	₀	20.7	⁻⁷⁵	₀	15.5	⁻⁸¹	₀	9.8	⁻⁸⁶	₀	3.8	⁻⁹¹	₀	-5.3	⁻⁹⁴	₀	-14.7								
Aug 27	39.3	⁻⁶	₂	38.9	⁻¹⁷	₂	37.7	⁻²⁸	₂	35.7	⁻³⁹	₂	33.0	⁻⁴⁹	₂	29.5	⁻⁵⁹	₁	25.4	⁻⁶⁷	₁	20.7	⁻⁷⁵	₁	15.5	⁻⁸¹	₁	9.8	⁻⁸⁷	₁	3.8	⁻⁹¹	₁	-5.3	⁻⁹⁴	₀	-14.7								
Aug 28	39.4	⁻⁶	₃	39.0	⁻¹⁷	₃	37.8	⁻²⁹	₃	35.8	⁻³⁹	₃	33.1	⁻⁵⁰	₃	29.6	⁻⁵⁹	₃	25.5	⁻⁶⁸	₂	20.8	⁻⁷⁵	₂	15.5	⁻⁸²	₂	9.8	⁻⁸⁷	₂	3.8	⁻⁹¹	₁	-5.4	⁻⁹⁴	₁	-14.8								
Aug 29	39.6	⁻⁶	₅	39.2	⁻¹⁷	₅	38.0	⁻²⁹	₄	36.0	⁻⁴⁰	₄	33.3	⁻⁵⁰	₄	29.8	⁻⁵⁹	₄	25.6	⁻⁶⁸	₄	20.9	⁻⁷⁶	₃	15.6	⁻⁸²	₃	9.9	⁻⁸⁷	₂	3.8	⁻⁹²	₂	-5.4	⁻⁹⁵	₁	-14.8								
Aug 30	40.0	⁻⁶	₆	39.5	⁻¹⁸	₆	38.3	⁻²⁹	₆	36.3	⁻⁴⁰	₆	33.5	⁻⁵⁰	₅	30.0	⁻⁶⁰	₅	25.8	⁻⁶⁹	₅	21.1	⁻⁷⁶	₄	15.7	⁻⁸³	₄	10.0	⁻⁸⁸	₃	3.8	⁻⁹³	₃	-5.4	⁻⁹⁶	₂	-15.0								
Aug 31	40.4	⁻⁶	₈	40.0	⁻¹⁸	₈	38.7	⁻²⁹	₇	36.7	⁻⁴⁰	₇	33.9	⁻⁵¹	₇	30.3	⁻⁶¹	₆	26.1	⁻⁷⁰	₆	21.3	⁻⁷⁷	₅	15.9	⁻⁸⁴	₅	10.1	⁻⁸⁹	₄	3.9	⁻⁹⁴	₃	-5.5	⁻⁹⁷	₂	-15.1								
Sep 1	40.9	⁻⁶	₉	40.5	⁻¹⁸	₉	39.2	⁻³⁰	₉	37.2	⁻⁴¹	₈	34.3	⁻⁵²	₈	30.7	⁻⁶²	₇	26.5	⁻⁷⁰	₇	21.6	⁻⁷⁸	₆	16.1	⁻⁸⁵	₆	10.2	⁻⁹¹	₅	3.9	⁻⁹⁵	₄	-5.6	⁻⁹⁸	₃	-15.3								
Sep 2	41.5	⁻⁶	₁₀	41.1	⁻¹⁸	₁₀	39.8	⁻³⁰	₁₀	37.7	⁻⁴²	₉	34.8	⁻⁵²	₉	31.2	⁻⁶³	₈	26.9	⁻⁷²	₈	21.9	⁻⁸⁰	₇	16.4	⁻⁸⁷	₆	10.4	⁻⁹²	₅	4.0	⁻⁹⁷	₄	-5.6	⁻¹⁰⁰	₃	-15.6								
Sep 3	42.2	⁻⁶	₁₀	41.8	⁻¹⁹	₁₀	40.5	⁻³¹	₁₀	38.4	⁻⁴²	₉	35.4	⁻⁵³	₉	31.7	⁻⁶⁴	₈	27.3	⁻⁷³	₈	22.3	⁻⁸¹	₇	16.6	⁻⁸⁸	₆	10.5	⁻⁹⁴	₅	4.0	⁻⁹⁹	₄	-5.7	⁻¹⁰²	₃	-15.8								
Sep 4	42.9	⁻⁶	₁₀	42.5	⁻¹⁹	₉	41.2	⁻³¹	₉	39.0	⁻⁴³	₉	36.0	⁻⁵⁴	₉	32.2	⁻⁶⁵	₈	27.8	⁻⁷⁴	₇	22.6	⁻⁸²	₇	16.9	⁻⁸⁹	₆	10.7	⁻⁹⁵	₅	4.1	⁻¹⁰⁰	₄	-5.8	⁻¹⁰³	₃	-16.1								
Sep 5	43.6	⁻⁶	₈	43.1	⁻¹⁹	₈	41.8	⁻³²	₈	39.6	⁻⁴⁴	₇	36.6	⁻⁵⁵	₇	32.7	⁻⁶⁵	₇	28.2	⁻⁷⁵	₆	23.0	⁻⁸³	₆	17.2	⁻⁹¹	₅	10.9	⁻⁹⁶	₄	4.2	⁻¹⁰¹	₃	-5.9	⁻¹⁰⁵	₂	-16.3								
Sep 6	44.1	⁻⁶	₅	43.7	⁻¹⁹	₅	42.3	⁻³²	₅	40.1	⁻⁴⁴	₅	37.0	⁻⁵⁶	₅	33.2	⁻⁶⁶	₅	28.5	⁻⁷⁶	₄	23.3	⁻⁸⁴	₄	17.4	⁻⁹²	₃	11.0	⁻⁹⁷	₃	4.2	⁻¹⁰³	₂	-6.0	⁻¹⁰⁶	₂	-16.5								
Sep 7	44.5	⁻⁷	₂	44.0	⁻¹⁹	₂	42.7	⁻³²	₂	40.4	⁻⁴⁴	₂	37.3	⁻⁵⁶	₂	33.4	⁻⁶⁷	₂	28.8	⁻⁷⁶	₂	23.5	⁻⁸⁵	₂	17.5	⁻⁹²	₁	11.1	⁻⁹⁸	₁	4.3	⁻¹⁰³	₁	-6.0	⁻¹⁰⁶	₁	-16.7								
Sep 8	44.7	⁻⁷	₋₁	44.2	⁻¹⁹	₋₁	42.8	⁻³²	₋₁	40.6	⁻⁴⁴	₋₁	37.5	⁻⁵⁶	₋₁	33.6	⁻⁶⁷	₋₁	28.9	⁻⁷⁶	₋₁	23.5	⁻⁸⁵	₋₁	17.6	⁻⁹²	₋₁	11.1	⁻⁹⁸	₋₁	4.3	⁻¹⁰³	₋₁	-6.1	⁻¹⁰⁶	₀	-16.7								
Sep 9	44.6	⁻⁷	₋₅	44.1	⁻¹⁹	₋₅	42.7	⁻³²	₋₄	40.5	⁻⁴⁴	₋₄	37.4	⁻⁵⁶	₋₄	33.5	⁻⁶⁶	₋₄	28.8	⁻⁷⁶	₋₄	23.5	⁻⁸⁴	₋₃	17.6	⁻⁹²	₋₃	11.1	⁻⁹⁸	₋₂	4.3	⁻¹⁰³	₋₂	-6.1	⁻¹⁰⁶	₋₁	-16.7								
Sep 10	44.3	⁻⁶	₋₇	43.8	⁻¹⁹	₋₇	42.4	⁻³²	₋₇	40.2	⁻⁴⁴	₋₇	37.1	⁻⁵⁵	₋₆	33.3	⁻⁶⁶	₋₆	28.6	⁻⁷⁵	₋₆	23.3	⁻⁸⁴	₋₅	17.4	⁻⁹¹	₋₄	11.0	⁻⁹⁷	₋₄	4.2	⁻¹⁰²	₋₃	-6.0	⁻¹⁰⁵	₋₂	-16.6								
Sep 11	43.8	⁻⁶	₋₉	43.3	⁻¹⁹	₋₉	42.0	⁻³¹	₋₉	39.8	⁻⁴³	₋₈	36.7	⁻⁵⁴	₋₈	32.9	⁻⁶⁵	₋₇	28.3	⁻⁷⁴	₋₇	23.1	⁻⁸³	₋₆	17.2	⁻⁹⁰	₋₅	10.9	⁻⁹⁶	₋₅	4.2	⁻¹⁰¹	₋₄	-5.9	⁻¹⁰⁴	₋₃	-16.4								
Sep 12	43.1	⁻⁶	₋₁₀	42.7	⁻¹⁹	₋₁₀	41.4	⁻³¹	₋₉	39.2	⁻⁴³	₋₉	36.2	⁻⁵⁴	₋₉	32.4	⁻⁶⁴	₋₈	27.9	⁻⁷³	₋₇	22.7	⁻⁸¹	₋₇	17.0	⁻⁸⁸	₋₆	10.8	⁻⁹⁴	₋₅	4.1	⁻⁹⁹	₋₄	-5.9	⁻¹⁰²	₋₃	-16.2								
Sep 13	42.5	⁻⁶	₋₁₀	42.0	⁻¹⁸	₋₉	40.7	⁻³⁰	₋₉	38.6	⁻⁴²	₋₉	35.6	⁻⁵³	₋₈	31.9	⁻⁶³	₋₈	27.5	⁻⁷²	₋₇	22.4	⁻⁸⁰	₋₇	16.7	⁻⁸⁷	₋₆	10.6	⁻⁹³	₋₅	4.1	⁻⁹⁸	₋₄	-5.8	⁻¹⁰¹	₋₃	-15.9								
Sep 14	41.8	⁻⁶	₋₉	41.4	⁻¹⁸	₋₉	40.1	⁻³⁰	₋₉	38.0	⁻⁴¹	₋₈	35.1	⁻⁵²	₋₈	31.4	⁻⁶²	₋₇	27.1	⁻⁷¹	₋₇	22.0	⁻⁷⁹	₋₆	16.5	⁻⁸⁶	₋₅	10.4	⁻⁹¹	₋₅	4.0	⁻⁹⁶	₋₄	-5.7	⁻⁹⁹	₋₃	-15.7								
Sep 15	41.2	⁻⁶	₋₈	40.8	⁻¹⁸	₋₈	39.5	⁻³⁰	₋₈	37.4	⁻⁴¹	₋₇	34.6	⁻⁵¹	₋₇	31.0	⁻⁶¹	₋₆	26.7	⁻⁷⁰	₋₆	21.7	⁻⁷⁸	₋₅	16.2	⁻⁸⁵	₋₅	10.3	⁻⁹⁰	₋₄	3.9	⁻⁹⁵	₋₃	-5.6	⁻⁹⁸	₋₂	-15.4								
Sep 16	40.7	⁻⁶	₋₇	40.3	⁻¹⁸	₋₆	39.0	⁻²⁹	₋₆	37.0	⁻⁴⁰	₋₆	34.1	⁻⁵¹	₋₆	30.6	⁻⁶⁰	₋₅	26.3	⁻⁶⁹	₋₅	21.4	⁻⁷⁷	₋₅	16.0	⁻⁸⁴	₋₄	10.1	⁻⁸⁹	₋₃	3.9	⁻⁹⁴	₋₃	-5.5	⁻⁹⁷	₋₂	-15.2								
Sep 17	40.2	⁻⁶	₋₅	39.8	⁻¹⁷	₋₅	38.6	⁻²⁹	₋₅	36.6	⁻⁴⁰	₋₅	33.8	⁻⁵⁰	₋₅	30.2	⁻⁶⁰	₋₄	26.0	⁻⁶⁸	₋₄	21.2	⁻⁷⁶	₋₄	15.9	⁻⁸³	₋₃	10.0	⁻⁸⁸	₋₃	3.8	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₁	-15.1								
Sep 18	39.9	⁻⁶	₋₄	39.5	⁻¹⁷	₋₄	38.2	⁻²⁹	₋₄	36.2	⁻⁴⁰	₋₄	33.5	⁻⁵⁰	₋₃	30.0	⁻⁵⁹	₋₃	25.8	⁻⁶⁸	₋₃	21.0	⁻⁷⁶	₋₃	15.7	⁻⁸²	₋₂	9.9	⁻⁸⁷	₋₂	3.8	⁻⁹²	₋₂	-5.4	⁻⁹⁵	₋₁	-14.9								
Sep 19	39.6																																												

2006

Moon Parallax and Semi-diameter

		Lower Limb																																									
		Altitude degrees																																									
		0			7			14			21			28			35			42			49			56			63			70			80			90					
		'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Oct 4		76.8	⁻⁶	₆	76.3	⁻¹⁹	₆	75.0	⁻³²	₆	72.8	⁻⁴⁴	₆	69.7	⁻⁵⁵	₆	65.9	⁻⁶⁶	₅	61.3	⁻⁷⁵	₅	56.0	⁻⁸⁴	₅	50.2	⁻⁹¹	₄	43.8	⁻⁹⁷	₃	37.1	⁻¹⁰²	₃	26.9	⁻¹⁰⁵	₂	16.4					
Oct 5		77.5	⁻⁷	₄	77.1	⁻¹⁹	₄	75.7	⁻³²	₄	73.5	⁻⁴⁴	₃	70.4	⁻⁵⁶	₃	66.5	⁻⁶⁶	₃	61.9	⁻⁷⁶	₃	56.6	⁻⁸⁵	₃	50.7	⁻⁹²	₂	44.3	⁻⁹⁸	₂	37.4	⁻¹⁰³	₂	27.2	⁻¹⁰⁶	₁	16.6					
Oct 6		78.0	⁻⁷	₀	77.5	⁻¹⁹	₀	76.2	⁻³²	₀	73.9	⁻⁴⁴	₀	70.8	⁻⁵⁶	₀	66.9	⁻⁶⁷	₀	62.2	⁻⁷⁶	₀	56.9	⁻⁸⁵	₀	51.0	⁻⁹²	₀	44.5	⁻⁹⁸	₀	37.7	⁻¹⁰³	₀	27.3	⁻¹⁰⁶	₀	16.7					
Oct 7		78.0	⁻⁷	₋₃	77.6	⁻¹⁹	₋₃	76.2	⁻³²	₋₃	74.0	⁻⁴⁴	₋₃	70.9	⁻⁵⁶	₋₃	66.9	⁻⁶⁶	₋₃	62.3	⁻⁷⁶	₋₂	56.9	⁻⁸⁵	₋₂	51.0	⁻⁹²	₋₂	44.5	⁻⁹⁸	₋₂	37.7	⁻¹⁰³	₋₁	27.4	⁻¹⁰⁶	₋₁	16.7					
Oct 8		77.7	⁻⁶	₋₆	77.2	⁻¹⁹	₋₆	75.8	⁻³²	₋₆	73.6	⁻⁴⁴	₋₆	70.5	⁻⁵⁵	₋₆	66.6	⁻⁶⁶	₋₅	62.0	⁻⁷⁶	₋₅	56.7	⁻⁸⁴	₋₄	50.8	⁻⁹¹	₋₄	44.3	⁻⁹⁷	₋₃	37.5	⁻¹⁰²	₋₃	27.2	⁻¹⁰⁵	₋₂	16.6					
Oct 9		76.9	⁻⁶	₋₉	76.5	⁻¹⁹	₋₈	75.1	⁻³¹	₋₈	72.9	⁻⁴³	₋₈	69.8	⁻⁵⁵	₋₈	66.0	⁻⁶⁵	₋₇	61.4	⁻⁷⁵	₋₇	56.1	⁻⁸³	₋₆	50.3	⁻⁹⁰	₋₅	43.9	⁻⁹⁶	₋₅	37.1	⁻¹⁰¹	₋₄	27.0	⁻¹⁰⁴	₋₂	16.5					
Oct 10		75.9	⁻⁶	₋₁₀	75.4	⁻¹⁹	₋₁₀	74.1	⁻³¹	₋₁₀	71.9	⁻⁴³	₋₉	68.9	⁻⁵⁴	₋₉	65.1	⁻⁶⁴	₋₈	60.6	⁻⁷⁴	₋₈	55.4	⁻⁸²	₋₇	49.6	⁻⁸⁹	₋₆	43.3	⁻⁹⁵	₋₅	36.6	⁻¹⁰⁰	₋₄	26.6	⁻¹⁰³	₋₃	16.2					
Oct 11		74.7	⁻⁶	₋₁₀	74.2	⁻¹⁹	₋₁₀	72.9	⁻³¹	₋₁₀	70.8	⁻⁴²	₋₁₀	67.8	⁻⁵³	₋₉	64.1	⁻⁶³	₋₈	59.6	⁻⁷²	₋₈	54.5	⁻⁸¹	₋₇	48.8	⁻⁸⁷	₋₆	42.6	⁻⁹³	₋₅	36.1	⁻⁹⁸	₋₄	26.2	⁻¹⁰¹	₋₃	16.0					
Oct 12		73.4	⁻⁶	₋₁₀	73.0	⁻¹⁸	₋₁₀	71.7	⁻³⁰	₋₉	69.6	⁻⁴¹	₋₉	66.7	⁻⁵²	₋₉	63.0	⁻⁶²	₋₈	58.6	⁻⁷¹	₋₇	53.6	⁻⁷⁹	₋₇	48.0	⁻⁸⁶	₋₆	41.9	⁻⁹²	₋₅	35.5	⁻⁹⁶	₋₄	25.7	⁻⁹⁹	₋₃	15.7					
Oct 13		72.3	⁻⁶	₋₉	71.9	⁻¹⁸	₋₉	70.6	⁻³⁰	₋₈	68.5	⁻⁴¹	₋₈	65.6	⁻⁵¹	₋₈	62.0	⁻⁶¹	₋₇	57.7	⁻⁷⁰	₋₇	52.7	⁻⁷⁸	₋₆	47.2	⁻⁸⁵	₋₅	41.3	⁻⁹⁰	₋₅	34.9	⁻⁹⁵	₋₄	25.3	⁻⁹⁸	₋₂	15.5					
Oct 14		71.2	⁻⁶	₋₇	70.8	⁻¹⁸	₋₇	69.6	⁻²⁹	₋₇	67.5	⁻⁴⁰	₋₇	64.7	⁻⁵¹	₋₆	61.1	⁻⁶⁰	₋₆	56.8	⁻⁶⁹	₋₆	52.0	⁻⁷⁷	₋₅	46.6	⁻⁸⁴	₋₄	40.7	⁻⁸⁹	₋₄	34.4	⁻⁹⁴	₋₃	25.0	⁻⁹⁷	₋₂	15.3					
Oct 15		70.3	⁻⁶	₋₆	69.9	⁻¹⁷	₋₆	68.7	⁻²⁹	₋₆	66.7	⁻⁴⁰	₋₅	63.9	⁻⁵⁰	₋₅	60.3	⁻⁶⁰	₋₅	56.1	⁻⁶⁸	₋₄	51.3	⁻⁷⁶	₋₄	46.0	⁻⁸³	₋₃	40.2	⁻⁸⁸	₋₃	34.0	⁻⁹³	₋₂	24.7	⁻⁹⁶	₋₂	15.1					
Oct 16		69.7	⁻⁶	₋₄	69.3	⁻¹⁷	₋₄	68.0	⁻²⁹	₋₄	66.0	⁻³⁹	₋₄	63.3	⁻⁵⁰	₋₄	59.8	⁻⁵⁹	₋₃	55.6	⁻⁶⁸	₋₃	50.8	⁻⁷⁵	₋₃	45.5	⁻⁸²	₋₃	39.8	⁻⁸⁷	₋₂	33.6	⁻⁹²	₋₂	24.4	⁻⁹⁵	₋₁	14.9					
Oct 17		69.2	⁻⁶	₋₃	68.8	⁻¹⁷	₋₃	67.6	⁻²⁸	₋₂	65.6	⁻³⁹	₋₂	62.8	⁻⁴⁹	₋₂	59.3	⁻⁵⁹	₋₂	55.2	⁻⁶⁷	₋₂	50.5	⁻⁷⁵	₋₂	45.2	⁻⁸²	₋₂	39.5	⁻⁸⁷	₋₁	33.4	⁻⁹¹	₋₁	24.3	⁻⁹⁴	₋₁	14.8					
Oct 18		68.9	⁻⁶	₋₁	68.5	⁻¹⁷	₋₁	67.3	⁻²⁸	₋₁	65.3	⁻³⁹	₋₁	62.5	⁻⁴⁹	₋₁	59.1	⁻⁵⁹	₋₁	55.0	⁻⁶⁷	₋₁	50.3	⁻⁷⁵	₋₁	45.0	⁻⁸¹	₋₁	39.3	⁻⁸⁶	₋₁	33.3	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7					
Oct 19		68.7	⁻⁶	₀	68.3	⁻¹⁷	₀	67.1	⁻²⁸	₀	65.1	⁻³⁹	₀	62.4	⁻⁴⁹	₀	59.0	⁻⁵⁹	₀	54.9	⁻⁶⁷	₀	50.2	⁻⁷⁵	₀	44.9	⁻⁸¹	₀	39.2	⁻⁸⁶	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7					
Oct 20		68.7	⁻⁶	₁	68.3	⁻¹⁷	₁	67.1	⁻²⁸	₁	65.2	⁻³⁹	₁	62.4	⁻⁴⁹	₁	59.0	⁻⁵⁹	₁	54.9	⁻⁶⁷	₁	50.2	⁻⁷⁵	₁	44.9	⁻⁸¹	₁	39.2	⁻⁸⁶	₁	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7					
Oct 21		68.9	⁻⁶	₂	68.5	⁻¹⁷	₂	67.3	⁻²⁸	₂	65.3	⁻³⁹	₂	62.5	⁻⁴⁹	₂	59.1	⁻⁵⁹	₂	55.0	⁻⁶⁷	₂	50.3	⁻⁷⁵	₁	45.0	⁻⁸¹	₁	39.3	⁻⁸⁷	₁	33.3	⁻⁹¹	₁	24.1	⁻⁹⁴	₁	14.7					
Oct 22		69.1	⁻⁶	₃	68.7	⁻¹⁷	₃	67.5	⁻²⁹	₃	65.5	⁻³⁹	₃	62.8	⁻⁵⁰	₃	59.3	⁻⁵⁹	₂	55.2	⁻⁶⁸	₂	50.4	⁻⁷⁵	₂	45.2	⁻⁸²	₂	39.5	⁻⁸⁷	₂	33.4	⁻⁹²	₁	24.2	⁻⁹⁵	₁	14.8					
Oct 23		69.5	⁻⁶	₄	69.1	⁻¹⁷	₄	67.8	⁻²⁹	₃	65.8	⁻⁴⁰	₃	63.1	⁻⁵⁰	₃	59.6	⁻⁵⁹	₃	55.4	⁻⁶⁸	₃	50.7	⁻⁷⁶	₂	45.4	⁻⁸²	₂	39.7	⁻⁸⁸	₂	33.5	⁻⁹²	₁	24.4	⁻⁹⁵	₁	14.9					
Oct 24		69.9	⁻⁶	₄	69.5	⁻¹⁸	₄	68.3	⁻²⁹	₄	66.3	⁻⁴⁰	₄	63.5	⁻⁵⁰	₄	60.0	⁻⁶⁰	₄	55.8	⁻⁶⁹	₃	51.0	⁻⁷⁶	₃	45.7	⁻⁸³	₃	39.9	⁻⁸⁸	₂	33.8	⁻⁹³	₂	24.5	⁻⁹⁶	₁	15.0					
Oct 25		70.4	⁻⁶	₅	70.0	⁻¹⁸	₅	68.8	⁻²⁹	₅	66.7	⁻⁴⁰	₅	63.9	⁻⁵¹	₄	60.4	⁻⁶⁰	₄	56.2	⁻⁶⁹	₄	51.4	⁻⁷⁷	₃	46.0	⁻⁸⁴	₃	40.2	⁻⁸⁹	₃	34.0	⁻⁹⁴	₂	24.7	⁻⁹⁶	₁	15.1					
Oct 26		71.0	⁻⁶	₆	70.6	⁻¹⁸	₆	69.4	⁻²⁹	₆	67.3	⁻⁴¹	₅	64.5	⁻⁵¹	₅	60.9	⁻⁶¹	₅	56.7	⁻⁷⁰	₄	51.8	⁻⁷⁸	₄	46.4	⁻⁸⁴	₄	40.5	⁻⁹⁰	₃	34.3	⁻⁹⁴	₂	24.9	⁻⁹⁷	₂	15.2					
Oct 27		71.7	⁻⁶	₆	71.3	⁻¹⁸	₆	70.0	⁻³⁰	₆	68.0	⁻⁴¹	₆	65.1	⁻⁵²	₆	61.5	⁻⁶²	₅	57.2	⁻⁷⁰	₅	52.3	⁻⁷⁸	₄	46.9	⁻⁸⁵	₄	40.9	⁻⁹¹	₃	34.6	⁻⁹⁵	₃	25.1	⁻⁹⁸	₂	15.4					
Oct 28		72.5	⁻⁶	₇	72.1	⁻¹⁸	₇	70.8	⁻³⁰	₇	68.7	⁻⁴¹	₇	65.8	⁻⁵²	₆	62.2	⁻⁶²	₆	57.8	⁻⁷¹	₅	52.9	⁻⁷⁹	₅	47.4	⁻⁸⁶	₄	41.4	⁻⁹²	₄	35.0	⁻⁹⁶	₃	25.4	⁻⁹⁹	₂	15.5					
Oct 29		73.3	⁻⁶	₈	72.9	⁻¹⁸	₇	71.6	⁻³⁰	₇	69.5	⁻⁴²	₇	66.6	⁻⁵³	₇	62.9	⁻⁶³	₆	58.5	⁻⁷²	₆	53.5	⁻⁸⁰	₅	47.9	⁻⁸⁷	₅	41.9	⁻⁹³	₄	35.4	⁻⁹⁸	₃	25.7	⁻¹⁰¹	₂	15.7					
Oct 30		74.2	⁻⁶	₈	73.8	⁻¹⁹	₈	72.5	⁻³¹	₇	70.4	⁻⁴²	₇	67.4	⁻⁵⁴	₇	63.7	⁻⁶⁴	₆	59.3	⁻⁷³	₆	54.2	⁻⁸¹	₅	48.5	⁻⁸⁸	₅	42.4	⁻⁹⁴	₄	35.8	⁻⁹⁹	₃	26.0	⁻¹⁰²	₂	15.9					
Oct 31		75.2	⁻⁶	₇	74.7	⁻¹⁹	₇	73.4	⁻³¹	₇	71.2	⁻⁴³	₇	68.2	⁻⁵⁴	₆	64.5	⁻⁶⁴	₆	60.0	⁻⁷⁴	₅	54.8	⁻⁸²	₅	49.1	⁻⁸⁹	₄	42.9	⁻⁹⁵	₄	36.3	⁻¹⁰⁰	₃	26.3	⁻¹⁰³	₂	16.1					
Nov 1		76.0	⁻⁶	₆	75.6	⁻¹⁹	₆	74.2	⁻³¹	₆	72.0	⁻⁴³	₆	69.0	⁻⁵⁵	₅	65.2	⁻⁶⁵	₅	60.7	⁻⁷⁵	₅	55.5	⁻⁸³	₄	49.7	⁻⁹⁰	₄	43.4	⁻⁹⁶	₃	36.7	⁻¹⁰¹	₂	26.6	⁻¹⁰⁴	₂	16.3					
Nov 2		76.7	⁻⁶	₄	76.3	⁻¹⁹	₄	74.9	⁻³²	₄	72.7	⁻⁴⁴	₄	69.7	⁻⁵⁵	₄	65.8	⁻⁶⁶	₃	61.2	⁻⁷⁵	₃	56.0	⁻⁸⁴	₃	50.1	⁻⁹¹	₂	43.8	⁻⁹⁷	₂	37.0	⁻¹⁰²	₂	26.9	⁻¹⁰⁵	₁	16.4					
Nov 3		77.2	⁻⁶	₁	76.8	⁻¹⁹	₁	75.4	⁻³²	₁	73.2	⁻⁴⁴	₁	70.1	⁻⁵⁵	₁	66.2	⁻⁶⁶	₁	61.6	⁻⁷⁶																						

Upper Limb		Altitude degrees																																									
		0			7			14			21			28			35			42			49			56			63			70			80			90					
		'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Oct 4		43.9 ⁻⁶ ₆	43.4 ⁻¹⁹ ₆	42.1 ⁻³² ₆	39.9 ⁻⁴⁴ ₆	36.8 ⁻⁵⁵ ₆	33.0 ⁻⁶⁶ ₅	28.4 ⁻⁷⁵ ₅	23.1 ⁻⁸⁴ ₅	17.3 ⁻⁹¹ ₄	10.9 ⁻⁹⁷ ₃	4.2 ⁻¹⁰² ₃	-6.0 ⁻¹⁰⁵ ₂	-16.4	44.3 ⁻⁷ ₄	43.9 ⁻¹⁹ ₄	42.5 ⁻³² ₄	40.3 ⁻⁴⁴ ₃	37.2 ⁻⁵⁶ ₃	33.3 ⁻⁶⁶ ₃	28.7 ⁻⁷⁶ ₃	23.4 ⁻⁸⁵ ₃	17.5 ⁻⁹² ₂	11.1 ⁻⁹⁸ ₂	4.2 ⁻¹⁰³ ₂	-6.0 ⁻¹⁰⁶ ₁	-16.6	44.6 ⁻⁷ ₀	44.1 ⁻¹⁹ ₀	42.8 ⁻³² ₀	40.5 ⁻⁴⁴ ₀	37.4 ⁻⁵⁶ ₀	33.5 ⁻⁶⁷ ₀	28.8 ⁻⁷⁶ ₀	23.5 ⁻⁸⁵ ₀	17.6 ⁻⁹² ₀	11.1 ⁻⁹⁸ ₀	4.3 ⁻¹⁰³ ₀	-6.1 ⁻¹⁰⁶ ₀	-16.7			
Oct 5		44.6 ⁻⁷ ₋₃	44.2 ⁻¹⁹ ₋₃	42.8 ⁻³² ₋₃	40.5 ⁻⁴⁴ ₋₃	37.4 ⁻⁵⁶ ₋₃	33.5 ⁻⁶⁶ ₋₃	28.9 ⁻⁷⁶ ₋₂	23.5 ⁻⁸⁵ ₋₂	17.6 ⁻⁹² ₋₂	11.1 ⁻⁹⁸ ₋₂	4.3 ⁻¹⁰³ ₋₁	-6.1 ⁻¹⁰⁶ ₋₁	-16.7	44.4 ⁻⁶ ₋₆	43.9 ⁻¹⁹ ₋₆	42.6 ⁻³² ₋₆	40.3 ⁻⁴⁴ ₋₆	37.3 ⁻⁵⁵ ₋₆	33.4 ⁻⁶⁶ ₋₅	28.7 ⁻⁷⁶ ₋₅	23.4 ⁻⁸⁴ ₋₄	17.5 ⁻⁹¹ ₋₄	11.1 ⁻⁹⁷ ₋₃	4.2 ⁻¹⁰² ₋₃	-6.0 ⁻¹⁰⁵ ₋₂	-16.6	44.0 ⁻⁶ ₋₉	43.5 ⁻¹⁹ ₋₈	42.2 ⁻³¹ ₋₈	39.9 ⁻⁴³ ₋₈	36.9 ⁻⁵⁵ ₋₈	33.0 ⁻⁶⁵ ₋₇	28.4 ⁻⁷⁵ ₋₇	23.2 ⁻⁸³ ₋₆	17.3 ⁻⁹⁰ ₋₅	11.0 ⁻⁹⁶ ₋₅	4.2 ⁻¹⁰¹ ₋₄	-6.0 ⁻¹⁰⁴ ₋₂	-16.5			
Oct 6		44.3 ⁻⁷ ₋₁₀	43.9 ⁻¹⁹ ₋₁₀	42.5 ⁻³² ₋₁₀	40.3 ⁻⁴⁴ ₋₉	37.2 ⁻⁵⁶ ₋₉	33.3 ⁻⁶⁶ ₋₈	28.1 ⁻⁷⁴ ₋₈	22.9 ⁻⁸² ₋₇	17.1 ⁻⁸⁹ ₋₆	10.8 ⁻⁹⁵ ₋₅	4.1 ⁻¹⁰⁰ ₋₄	-5.9 ⁻¹⁰³ ₋₃	-16.2	44.2 ⁻⁶ ₋₁₀	42.3 ⁻¹⁹ ₋₁₀	40.9 ⁻³¹ ₋₁₀	38.8 ⁻⁴² ₋₁₀	35.8 ⁻⁵³ ₋₉	32.1 ⁻⁶³ ₋₈	27.6 ⁻⁷² ₋₈	22.5 ⁻⁸¹ ₋₇	16.8 ⁻⁸⁷ ₋₆	10.7 ⁻⁹³ ₋₅	4.1 ⁻⁹⁸ ₋₄	-5.8 ⁻¹⁰¹ ₋₃	-16.0	42.7 ⁻⁶ ₋₁₀	42.3 ⁻¹⁹ ₋₁₀	40.9 ⁻³¹ ₋₁₀	38.8 ⁻⁴² ₋₁₀	35.8 ⁻⁵³ ₋₉	32.1 ⁻⁶³ ₋₈	27.6 ⁻⁷² ₋₈	22.5 ⁻⁸¹ ₋₇	16.8 ⁻⁸⁷ ₋₆	10.7 ⁻⁹³ ₋₅	4.1 ⁻⁹⁸ ₋₄	-5.8 ⁻¹⁰¹ ₋₃	-16.0			
Oct 7		42.0 ⁻⁶ ₋₁₀	41.6 ⁻¹⁸ ₋₁₀	40.3 ⁻³⁰ ₋₉	38.2 ⁻⁴¹ ₋₉	35.2 ⁻⁵² ₋₉	31.6 ⁻⁶² ₋₈	27.2 ⁻⁷¹ ₋₇	22.1 ⁻⁷⁹ ₋₇	16.5 ⁻⁸⁶ ₋₆	10.5 ⁻⁹² ₋₅	4.0 ⁻⁹⁶ ₋₄	-5.7 ⁻⁹⁹ ₋₃	-15.7	41.3 ⁻⁶ ₋₉	40.9 ⁻¹⁸ ₋₉	39.6 ⁻³⁰ ₋₈	37.5 ⁻⁴¹ ₋₈	34.7 ⁻⁵¹ ₋₈	31.0 ⁻⁶¹ ₋₇	26.7 ⁻⁷⁰ ₋₇	21.8 ⁻⁷⁸ ₋₆	16.3 ⁻⁸⁵ ₋₅	10.3 ⁻⁹⁰ ₋₅	3.9 ⁻⁹⁵ ₋₄	-5.6 ⁻⁹⁸ ₋₃	-15.5	42.0 ⁻⁶ ₋₁₀	41.6 ⁻¹⁸ ₋₁₀	40.3 ⁻³⁰ ₋₉	38.2 ⁻⁴¹ ₋₉	35.2 ⁻⁵² ₋₉	31.6 ⁻⁶² ₋₈	27.2 ⁻⁷¹ ₋₇	22.1 ⁻⁷⁹ ₋₇	16.5 ⁻⁸⁶ ₋₆	10.5 ⁻⁹² ₋₅	4.0 ⁻⁹⁶ ₋₄	-5.7 ⁻⁹⁹ ₋₃	-15.7			
Oct 8		40.7 ⁻⁶ ₋₇	40.3 ⁻¹⁸ ₋₇	39.1 ⁻²⁹ ₋₇	37.0 ⁻⁴⁰ ₋₇	34.2 ⁻⁵¹ ₋₆	30.6 ⁻⁶⁰ ₋₆	26.3 ⁻⁶⁹ ₋₆	21.5 ⁻⁷⁷ ₋₅	16.0 ⁻⁸⁴ ₋₄	10.2 ⁻⁸⁹ ₋₄	3.9 ⁻⁹⁴ ₋₃	-5.5 ⁻⁹⁷ ₋₂	-15.3	40.2 ⁻⁶ ₋₆	39.8 ⁻¹⁷ ₋₆	38.6 ⁻²⁹ ₋₆	36.5 ⁻⁴⁰ ₋₅	33.7 ⁻⁵⁰ ₋₅	30.2 ⁻⁶⁰ ₋₅	26.0 ⁻⁶⁸ ₋₄	21.2 ⁻⁷⁶ ₋₄	15.8 ⁻⁸³ ₋₃	10.0 ⁻⁸⁸ ₋₃	3.8 ⁻⁹³ ₋₂	-5.5 ⁻⁹⁶ ₋₂	-15.1	40.7 ⁻⁶ ₋₇	40.3 ⁻¹⁸ ₋₇	39.1 ⁻²⁹ ₋₇	37.0 ⁻⁴⁰ ₋₇	34.2 ⁻⁵¹ ₋₆	30.6 ⁻⁶⁰ ₋₆	26.3 ⁻⁶⁹ ₋₆	21.5 ⁻⁷⁷ ₋₅	16.0 ⁻⁸⁴ ₋₄	10.2 ⁻⁸⁹ ₋₄	3.9 ⁻⁹⁴ ₋₃	-5.5 ⁻⁹⁷ ₋₂	-15.3			
Oct 9		39.8 ⁻⁶ ₋₄	39.4 ⁻¹⁷ ₋₄	38.2 ⁻²⁹ ₋₄	36.2 ⁻³⁹ ₋₄	33.4 ⁻⁵⁰ ₋₄	29.9 ⁻⁵⁹ ₋₃	25.8 ⁻⁶⁸ ₋₃	21.0 ⁻⁷⁵ ₋₃	15.7 ⁻⁸² ₋₃	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-14.9	39.5 ⁻⁶ ₋₃	39.1 ⁻¹⁷ ₋₃	37.9 ⁻²⁸ ₋₂	35.9 ⁻³⁹ ₋₂	33.2 ⁻⁴⁹ ₋₂	29.7 ⁻⁵⁹ ₋₂	25.6 ⁻⁶⁷ ₋₂	20.8 ⁻⁷⁵ ₋₂	15.6 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₋₁	-14.8	39.8 ⁻⁶ ₋₄	39.4 ⁻¹⁷ ₋₄	38.2 ⁻²⁹ ₋₄	36.2 ⁻³⁹ ₋₄	33.4 ⁻⁵⁰ ₋₄	29.9 ⁻⁵⁹ ₋₃	25.8 ⁻⁶⁸ ₋₃	21.0 ⁻⁷⁵ ₋₃	15.7 ⁻⁸² ₋₃	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-14.9			
Oct 10		39.4 ⁻⁶ ₋₁	39.0 ⁻¹⁷ ₋₁	37.8 ⁻²⁸ ₋₁	35.8 ⁻³⁹ ₋₁	33.0 ⁻⁴⁹ ₋₁	29.6 ⁻⁵⁹ ₋₁	25.5 ⁻⁶⁷ ₋₁	20.8 ⁻⁷⁵ ₋₁	15.5 ⁻⁸¹ ₋₁	9.8 ⁻⁸⁶ ₋₁	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7	39.3 ⁻⁶ ₀	38.9 ⁻¹⁷ ₀	37.7 ⁻²⁸ ₀	35.7 ⁻³⁹ ₀	33.0 ⁻⁴⁹ ₀	29.5 ⁻⁵⁹ ₀	25.4 ⁻⁶⁷ ₀	20.7 ⁻⁷⁵ ₀	15.5 ⁻⁸¹ ₀	9.8 ⁻⁸⁶ ₀	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7	39.4 ⁻⁶ ₋₁	39.0 ⁻¹⁷ ₋₁	37.8 ⁻²⁸ ₋₁	35.8 ⁻³⁹ ₋₁	33.0 ⁻⁴⁹ ₋₁	29.6 ⁻⁵⁹ ₋₁	25.5 ⁻⁶⁷ ₋₁	20.8 ⁻⁷⁵ ₋₁	15.5 ⁻⁸¹ ₋₁	9.8 ⁻⁸⁶ ₋₁	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7			
Oct 11		39.5 ⁻⁶ ₃	39.1 ⁻¹⁷ ₃	37.9 ⁻²⁹ ₃	35.9 ⁻³⁹ ₃	33.2 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₂	25.6 ⁻⁶⁸ ₂	20.8 ⁻⁷⁵ ₂	15.6 ⁻⁸² ₂	9.9 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₁	-5.4 ⁻⁹⁵ ₁	-14.8	39.3 ⁻⁶ ₁	38.9 ⁻¹⁷ ₁	37.7 ⁻²⁸ ₁	35.7 ⁻³⁹ ₁	33.0 ⁻⁴⁹ ₁	29.5 ⁻⁵⁹ ₁	25.4 ⁻⁶⁷ ₁	20.7 ⁻⁷⁵ ₁	15.5 ⁻⁸¹ ₁	9.8 ⁻⁸⁶ ₁	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7	39.4 ⁻⁶ ₂	39.0 ⁻¹⁷ ₂	37.8 ⁻²⁸ ₂	35.8 ⁻³⁹ ₂	33.0 ⁻⁴⁹ ₂	29.6 ⁻⁵⁹ ₂	25.5 ⁻⁶⁷ ₂	20.8 ⁻⁷⁵ ₁	15.5 ⁻⁸¹ ₁	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	-5.4 ⁻⁹⁴ ₁	-14.7			
Oct 12		39.7 ⁻⁶ ₄	39.3 ⁻¹⁷ ₄	38.1 ⁻²⁹ ₃	36.1 ⁻⁴⁰ ₃	33.3 ⁻⁵⁰ ₃	29.8 ⁻⁵⁹ ₃	25.7 ⁻⁶⁸ ₃	20.9 ⁻⁷⁶ ₂	15.7 ⁻⁸² ₂	9.9 ⁻⁸⁸ ₂	3.8 ⁻⁹² ₁	-5.4 ⁻⁹⁵ ₁	-14.9	39.5 ⁻⁶ ₃	39.1 ⁻¹⁷ ₃	37.9 ⁻²⁹ ₃	35.9 ⁻³⁹ ₃	33.2 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₂	25.6 ⁻⁶⁸ ₂	20.8 ⁻⁷⁵ ₂	15.6 ⁻⁸² ₂	9.9 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₁	-5.4 ⁻⁹⁵ ₁	-14.8	39.7 ⁻⁶ ₄	39.3 ⁻¹⁷ ₄	38.1 ⁻²⁹ ₃	36.1 ⁻⁴⁰ ₃	33.3 ⁻⁵⁰ ₃	29.8 ⁻⁵⁹ ₃	25.7 ⁻⁶⁸ ₃	20.9 ⁻⁷⁶ ₂	15.7 ⁻⁸² ₂	9.9 ⁻⁸⁸ ₂	3.8 ⁻⁹² ₁	-5.4 ⁻⁹⁵ ₁	-14.9			
Oct 13		40.0 ⁻⁶ ₄	39.6 ⁻¹⁸ ₄	38.3 ⁻²⁹ ₄	36.3 ⁻⁴⁰ ₄	33.5 ⁻⁵⁰ ₄	30.0 ⁻⁶⁰ ₄	25.9 ⁻⁶⁹ ₃	21.1 ⁻⁷⁶ ₃	15.7 ⁻⁸³ ₃	10.0 ⁻⁸⁸ ₂	3.8 ⁻⁹³ ₂	-5.4 ⁻⁹⁶ ₁	-15.0	40.3 ⁻⁶ ₅	39.8 ⁻¹⁸ ₅	38.6 ⁻²⁹ ₅	36.6 ⁻⁴⁰ ₅	33.8 ⁻⁵¹ ₄	30.2 ⁻⁶⁰ ₄	26.0 ⁻⁶⁹ ₄	21.2 ⁻⁷⁷ ₃	15.9 ⁻⁸⁴ ₃	10.0 ⁻⁸⁹ ₃	3.8 ⁻⁹⁴ ₂	-5.5 ⁻⁹⁶ ₁	-15.1	40.0 ⁻⁶ ₄	39.6 ⁻¹⁸ ₄	38.3 ⁻²⁹ ₄	36.3 ⁻⁴⁰ ₄	33.5 ⁻⁵⁰ ₄	30.0 ⁻⁶⁰ ₄	25.9 ⁻⁶⁹ ₃	21.1 ⁻⁷⁶ ₃	15.7 ⁻⁸³ ₃	10.0 ⁻⁸⁸ ₂	3.8 ⁻⁹³ ₂	-5.4 ⁻⁹⁶ ₁	-15.0			
Oct 14		40.6 ⁻⁶ ₆	40.2 ⁻¹⁸ ₆	38.9 ⁻²⁹ ₆	36.9 ⁻⁴¹ ₅	34.1 ⁻⁵¹ ₅	30.5 ⁻⁶¹ ₅	26.3 ⁻⁷⁰ ₄	21.4 ⁻⁷⁸ ₄	16.0 ⁻⁸⁴ ₄	10.1 ⁻⁹⁰ ₃	3.9 ⁻⁹⁴ ₂	-5.5 ⁻⁹⁷ ₂	-15.2	41.0 ⁻⁶ ₆	40.6 ⁻¹⁸ ₆	39.3 ⁻³⁰ ₆	37.2 ⁻⁴¹ ₆	34.4 ⁻⁵² ₆	30.8 ⁻⁶² ₅	26.5 ⁻⁷⁰ ₅	21.6 ⁻⁷⁸ ₄	16.2 ⁻⁸⁵ ₄	10.2 ⁻⁹¹ ₃	3.9 ⁻⁹⁵ ₃	-5.6 ⁻⁹⁸ ₂	-15.4	40.6 ⁻⁶ ₆	40.2 ⁻¹⁸ ₆	38.9 ⁻²⁹ ₆	36.9 ⁻⁴¹ ₅	34.1 ⁻⁵¹ ₅	30.5 ⁻⁶¹ ₅	26.3 ⁻⁷⁰ ₄	21.4 ⁻⁷⁸ ₄	16.0 ⁻⁸⁴ ₄	10.1 ⁻⁹⁰ ₃	3.9 ⁻⁹⁴ ₂	-5.5 ⁻⁹⁷ ₂	-15.2			
Oct 15		41.0 ⁻⁶ ₇	41.0 ⁻¹⁸ ₇	39.7 ⁻³⁰ ₇	37.7 ⁻⁴¹ ₇	34.8 ⁻⁵² ₆	31.1 ⁻⁶² ₆	26.8 ⁻⁷¹ ₅	21.8 ⁻⁷⁹ ₅	16.3 ⁻⁸⁶ ₄	10.3 ⁻⁹² ₄	4.0 ⁻⁹⁶ ₃	-5.6 ⁻⁹⁹ ₂	-15.5	41.4 ⁻⁶ ₇	41.0 ⁻¹⁸ ₇	39.7 ⁻³⁰ ₇	37.7 ⁻⁴¹ ₇	34.8 ⁻⁵² ₆	31.1 ⁻⁶² ₆	26.8 ⁻⁷¹ ₅	21.8 ⁻⁷⁹ ₅	16.3 ⁻⁸⁶ ₄	10.3 ⁻⁹² ₄	4.0 ⁻⁹⁶ ₃	-5.6 ⁻⁹⁹ ₂	-15.5	41.0 ⁻⁶ ₆	40.6 ⁻¹⁸ ₆	39.3 ⁻³⁰ ₆	37.2 ⁻⁴¹ ₆	34.4 ⁻⁵² ₆	30.8 ⁻⁶² ₅	26.5 ⁻⁷⁰ ₅	21.6 ⁻⁷⁸ ₄	16.2 ⁻⁸⁵ ₄	10.2 ⁻⁹¹ ₃	3.9 ⁻⁹⁵ ₃	-5.6 ⁻⁹⁸ ₂	-15.4			
Oct 16		41.9 ⁻⁶ ₈	41.5 ⁻¹⁸ ₇	40.2 ⁻³⁰ ₇	38.1 ⁻⁴² ₇	35.2 ⁻⁵³ ₇	31.5 ⁻⁶³ ₆	27.1 ⁻⁷² ₆	22.1 ⁻⁸⁰ ₅	16.5 ⁻⁸⁷ ₅	10.5 ⁻⁹³ ₄	4.0 ⁻⁹⁸ ₃	-5.7 ⁻¹⁰¹ ₂	-15.7	42.4 ⁻⁶ ₈	42.0 ⁻¹⁹ ₈	40.7 ⁻³¹ ₇	38.6 ⁻⁴² ₇	35.6 ⁻⁵⁴ ₇	31.9 ⁻⁶⁴ ₆	27.5 ⁻⁷³ ₆	22.4 ⁻⁸¹ ₅	16.7 ⁻⁸⁸ ₅	10.6 ⁻⁹⁴ ₄	4.1 ⁻⁹⁹ ₃	-5.8 ⁻¹⁰² ₂	-15.9	41.9 ⁻⁶ ₈	41.5 ⁻¹⁸ ₇	40.2 ⁻³⁰ ₇	38.1 ⁻⁴² ₇	35.2 ⁻⁵³ ₇	31.5 ⁻⁶³ ₆	27.1 ⁻⁷² ₆	22.1 ⁻⁸⁰ ₅	16.5 ⁻⁸⁷ ₅	10.5 ⁻⁹³ ₄	4.0 ⁻⁹⁸ ₃	-5.7 ⁻¹⁰¹ ₂	-15.7			
Oct 17		43.0 ⁻⁶ ₇	42.5 ⁻¹⁹ ₇	41.2 ⁻³¹ ₇	39.0 ⁻⁴³ ₇	36.1 ⁻⁵⁴ ₆	32.3 ⁻⁶⁴ ₆	27.8 ⁻⁷⁴ ₅	22.7 ⁻⁸² ₅	16.9 ⁻⁸⁹ ₄	10.7 ⁻⁹⁵ ₄	4.1 ⁻¹⁰⁰ ₃	-5.8 ⁻¹⁰³ ₂	-16.1	43.5 ⁻⁶ ₆	43.0 ⁻¹⁹ ₆	41.7 ⁻³¹ ₆	39.5 ⁻⁴³ ₆	36.5 ⁻⁵⁵ ₅	32.7 ⁻⁶⁵ ₅	28.1 ⁻⁷⁵ ₅	22.9 ⁻⁸³ ₄	17.1 ⁻⁹⁰ ₄	10.8 ⁻⁹⁶ ₃	4.2 ⁻¹⁰¹ ₂	-5.9 ⁻¹⁰⁴ ₂	-16.3	43.0 ⁻⁶ ₇	42.5 ⁻¹⁹ ₇	41.2 ⁻³¹ ₇	39.0 ⁻⁴³ ₇	36.1 ⁻⁵⁴ ₆	32.3 ⁻⁶⁴ ₆	27.8 ⁻⁷⁴ ₅	22.7 ⁻⁸² ₅	16.9 ⁻⁸⁹ ₄	10.7 ⁻⁹⁵ ₄	4.1 ⁻¹⁰⁰ ₃	-5.8 ⁻¹⁰³ ₂	-16.1			
Oct 18		43.5 ⁻⁶ ₆	43.0 ⁻¹⁹ ₆	41.7 ⁻³¹ ₆	39.5 ⁻⁴³ ₆	36.5 ⁻⁵⁵ ₅	32.7 ⁻⁶⁵ ₅	28.1 ⁻⁷⁵ ₅	22.9 ⁻⁸³ ₄	17.1 ⁻⁹⁰ ₄	10.8																																

2006

Moon Parallax and Semi-diameter

Lower Limb																																							
Altitude degrees																																							
	0			7			14			21			28			35			42			49			56			63			70			80			90		
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t			
Nov 19	69.6	-6	4	69.2	-17	4	68.0	-29	4	66.0	-40	4	63.2	-50	4	59.7	-60	3	55.5	-68	3	50.8	-76	3	45.5	-82	2	39.7	-88	2	33.6	-92	2	24.4	-95	1	14.9		
Nov 20	70.1	-6	5	69.7	-18	4	68.4	-29	4	66.4	-40	4	63.6	-50	4	60.1	-60	4	55.9	-69	3	51.1	-77	3	45.8	-83	3	40.0	-88	2	33.8	-93	2	24.6	-96	1	15.0		
Nov 21	70.6	-6	5	70.2	-18	5	69.0	-29	5	66.9	-40	5	64.1	-51	4	60.6	-61	4	56.4	-69	4	51.5	-77	3	46.2	-84	3	40.3	-89	3	34.1	-94	2	24.8	-97	1	15.1		
Nov 22	71.2	-6	5	70.8	-18	5	69.5	-29	5	67.5	-41	5	64.7	-51	4	61.1	-61	4	56.8	-70	4	52.0	-78	3	46.5	-84	3	40.7	-90	3	34.4	-95	2	25.0	-98	1	15.2		
Nov 23	71.8	-6	5	71.4	-18	5	70.1	-30	5	68.1	-41	5	65.2	-52	5	61.6	-62	4	57.3	-71	4	52.4	-78	4	46.9	-85	3	41.0	-91	3	34.7	-95	2	25.2	-98	1	15.4		
Nov 24	72.4	-6	5	72.0	-18	5	70.7	-30	5	68.6	-41	5	65.8	-52	5	62.1	-62	4	57.8	-71	4	52.8	-79	4	47.3	-86	3	41.3	-91	3	35.0	-96	2	25.4	-99	1	15.5		
Nov 25	73.0	-6	5	72.6	-18	5	71.3	-30	5	69.2	-42	5	66.3	-53	5	62.7	-63	4	58.3	-72	4	53.3	-80	4	47.7	-87	3	41.7	-92	3	35.3	-97	2	25.6	-100	1	15.6		
Nov 26	73.7	-6	5	73.2	-18	5	71.9	-30	5	69.8	-42	5	66.9	-53	4	63.2	-63	4	58.8	-72	4	53.7	-80	3	48.1	-87	3	42.1	-93	3	35.6	-98	2	25.8	-101	1	15.8		
Nov 27	74.3	-6	5	73.8	-19	5	72.5	-31	5	70.4	-42	5	67.4	-53	4	63.7	-64	4	59.3	-73	4	54.2	-81	3	48.5	-88	3	42.4	-94	3	35.9	-99	2	26.0	-102	1	15.9		
Nov 28	74.8	-6	4	74.4	-19	4	73.1	-31	4	70.9	-43	4	68.0	-54	4	64.2	-64	4	59.7	-73	3	54.6	-82	3	48.9	-89	3	42.7	-94	2	36.1	-99	2	26.2	-103	1	16.0		
Nov 29	75.4	-6	4	74.9	-19	4	73.6	-31	4	71.4	-43	3	68.4	-54	3	64.7	-65	3	60.2	-74	3	55.0	-82	3	49.3	-89	2	43.0	-95	2	36.4	-100	2	26.4	-103	1	16.1		
Nov 30	75.8	-6	3	75.4	-19	3	74.1	-31	2	71.9	-43	2	68.9	-54	2	65.1	-65	2	60.5	-74	2	55.3	-83	2	49.6	-90	2	43.3	-96	1	36.6	-101	1	26.6	-104	1	16.2		
Dec 1	76.1	-6	1	75.7	-19	1	74.4	-31	1	72.2	-43	1	69.1	-55	1	65.3	-65	1	60.8	-74	1	55.6	-83	1	49.8	-90	1	43.5	-96	0	36.8	-101	0	26.7	-104	0	16.3		
Dec 2	76.2	-6	-1	75.8	-19	-1	74.5	-31	-1	72.3	-43	-1	69.2	-55	-1	65.4	-65	-1	60.9	-74	-1	55.6	-83	-1	49.8	-90	-1	43.5	-96	-1	36.8	-101	0	26.7	-104	0	16.3		
Dec 3	76.1	-6	-3	75.7	-19	-3	74.4	-31	-3	72.2	-43	-3	69.1	-54	-3	65.3	-65	-3	60.8	-74	-2	55.5	-83	-2	49.8	-90	-2	43.5	-95	-2	36.8	-100	-1	26.7	-104	-1	16.3		
Dec 4	75.8	-6	-5	75.3	-19	-5	74.0	-31	-5	71.8	-43	-5	68.8	-54	-5	65.0	-64	-4	60.5	-74	-4	55.3	-82	-4	49.5	-89	-3	43.2	-95	-3	36.6	-100	-2	26.6	-103	-1	16.2		
Dec 5	75.1	-6	-7	74.7	-19	-7	73.4	-31	-7	71.2	-42	-6	68.2	-54	-6	64.5	-64	-6	60.0	-73	-5	54.8	-81	-5	49.1	-88	-4	42.9	-94	-4	36.3	-99	-3	26.3	-102	-2	16.1		
Dec 6	74.3	-6	-8	73.9	-18	-8	72.6	-30	-8	70.4	-42	-7	67.5	-53	-7	63.8	-63	-7	59.3	-72	-6	54.2	-80	-5	48.6	-87	-5	42.4	-93	-4	35.9	-98	-3	26.1	-101	-2	15.9		
Dec 7	73.4	-6	-8	72.9	-18	-8	71.7	-30	-8	69.5	-41	-8	66.6	-52	-7	62.9	-62	-7	58.6	-71	-6	53.5	-79	-6	48.0	-86	-5	41.9	-92	-4	35.4	-96	-3	25.7	-99	-2	15.7		
Dec 8	72.4	-6	-8	72.0	-18	-8	70.7	-30	-8	68.6	-41	-7	65.7	-52	-7	62.1	-61	-7	57.8	-70	-6	52.8	-78	-6	47.3	-85	-5	41.3	-90	-4	35.0	-95	-3	25.4	-98	-2	15.5		
Dec 9	71.4	-6	-7	71.0	-18	-7	69.8	-29	-7	67.7	-40	-7	64.9	-51	-6	61.3	-61	-6	57.0	-69	-5	52.1	-77	-5	46.7	-84	-4	40.8	-89	-4	34.5	-94	-3	25.0	-97	-2	15.3		
Dec 10	70.6	-6	-6	70.2	-18	-6	68.9	-29	-6	66.9	-40	-5	64.1	-50	-5	60.5	-60	-5	56.3	-69	-4	51.5	-76	-4	46.1	-83	-4	40.3	-88	-3	34.1	-93	-2	24.7	-96	-2	15.1		
Dec 11	69.9	-6	-4	69.5	-17	-4	68.2	-29	-4	66.2	-40	-4	63.4	-50	-4	59.9	-59	-3	55.8	-68	-3	51.0	-76	-3	45.7	-82	-3	39.9	-88	-2	33.7	-92	-2	24.5	-95	-1	15.0		
Dec 12	69.4	-6	-2	69.0	-17	-2	67.7	-29	-2	65.7	-39	-2	63.0	-50	-2	59.5	-59	-2	55.4	-68	-2	50.6	-75	-2	45.3	-82	-1	39.6	-87	-1	33.5	-92	-1	24.3	-94	-1	14.9		
Dec 13	69.1	-6	-1	68.7	-17	-1	67.5	-28	-1	65.5	-39	0	62.7	-49	0	59.3	-59	0	55.1	-68	0	50.4	-75	0	45.1	-82	0	39.4	-87	0	33.4	-91	0	24.2	-94	0	14.8		
Dec 14	69.0	-6	1	68.6	-17	1	67.4	-28	1	65.4	-39	1	62.7	-49	1	59.2	-59	1	55.1	-68	1	50.4	-75	1	45.1	-82	1	39.4	-87	1	33.3	-91	1	24.2	-94	0	14.8		
Dec 15	69.2	-6	3	68.8	-17	3	67.5	-29	3	65.5	-39	3	62.8	-50	3	59.3	-59	2	55.2	-68	2	50.5	-75	2	45.2	-82	2	39.5	-87	2	33.4	-92	1	24.2	-95	1	14.8		
Dec 16	69.5	-6	4	69.1	-17	4	67.9	-29	4	65.9	-40	4	63.1	-50	4	59.6	-60	4	55.5	-68	3	50.7	-76	3	45.4	-82	3	39.7	-88	2	33.6	-92	2	24.4	-95	1	14.9		
Dec 17	70.0	-6	5	69.6	-18	5	68.4	-29	5	66.4	-40	5	63.6	-50	5	60.1	-60	4	55.9	-69	4	51.1	-77	4	45.8	-83	3	40.0	-88	3	33.8	-93	2	24.5	-96	2	15.0		
Dec 18	70.7	-6	6	70.3	-18	6	69.0	-29	6	67.0	-40	6	64.2	-51	5	60.6	-61	5	56.4	-69	5	51.6	-77	4	46.2	-84	4	40.3	-89	3	34.1	-94	3	24.8	-97	2	15.1		
Dec 19	71.4	-6	6	71.0	-18	6	69.7	-30	6	67.7	-41	6	64.8	-51	6	61.2	-61	5	57.0	-70	5	52.1	-78	4	46.7	-85	4	40.8	-90	3	34.5	-95	3	25.0	-98	2	15.3		
Dec 20	72.1	-6	6	71.7	-18	6	70.5	-30	6	68.4	-41	6	65.5	-52	5	61.9	-62	5	57.6	-71	5	52.6	-79	4	47.1	-86	4	41.2	-91	3	34.8	-96	3	25.3	-99	2	15.4		
Dec 21	72.9	-6	6	72.4	-18	5	71.2	-30	5	69.1	-42	5	66.2	-52	5	62.5	-62	5	58.2	-72	4	53.2	-80	4	47.6	-86	3	41.6	-92	3	35.2	-97	2	25.5	-100	2	15.6		
Dec 22	73.5	-6	5	73.1	-18	5	71.8	-30	5	69.7	-42	4	66.8	-53	4	63.1	-63	4	58.7	-72	4	53.7	-80	3	48.1	-87	3	42.0	-93	2	35.5	-98	2	25.8	-101	1	15.7		
Dec 23	74.1	-6	4	73.7	-19	4	72.4	-31	4	70.2	-42	4	67.3	-53	3	63.6	-63	3	59.1	-73	3	54.1	-81	3	48.4	-88	2	42.3	-93	2	35.8	-98	2	26.0	-101	1	15.9		
Dec 24	74.6	-6	3	74.1	-19	3	72.8	-31	3	70.7	-42	3	67.7	-54	3	64.0	-64	2	59.5	-73	2	54.4	-81	2	48.7	-88	2	42.6	-94	2	36.0	-99	1	26.1	-102	1	16.0		
Dec 25	74.9	-6	2	74.5	-19	2	73.2	-31	2	71.0	-43	2	68.0	-54	2	64.3	-64	2	59.8	-73	2	54.7	-82	1	49.0	-89	1	42.8	-94	1	36.2	-99	1	26.3	-102	1	16.0		
Dec 26	75.1	-6	1	74.7	-19	1	73.4	-31	1	71.2	-43	1	68.2	-54	1	64.5	-64	1	60.0	-74	1	54.8	-82	1	49.1	-89	1	42.9	-95	1	36.3	-100	1	26.3	-103	0	16.1		
Dec 27	75.3	-6	0	74.8	-19	0	73.5	-31	0	71.4	-43	0	68.4	-54	0	64.6	-64	0	60.1	-74	0	54.9	-82	0	49.2	-89	0	43.0	-95	0	36.4	-100	0	26.4	-103	0	16.1		
Dec 28	75.3	-6	0	74.9	-19	0	73.6	-31	0	71.4	-43	0	68.4	-54	0	64.6	-64	0	60.1	-74	0	55.0	-82	0	49.2	-89	0	43.0	-95	0	36.4	-100	0	26.4	-103	0	16.1		
Dec 29	75.3	-6	-1	74.9	-19	-1	73.5	-31	-1	71.4	-43	-1	68.4	-54	-1	64.6	-64	-1	60.1	-74	-1	54.9	-82	-1	49.2	-89	-1	43.0	-95	-1	36.4	-100	0	26.4	-103	0	16.1		
Dec 30	75.2	-6	-2	74.7	-19	-2	73.4	-31	-2	71.2	-43	-																											

2006

Moon Parallax and Semi-diameter

Upper Limb																																									
	Altitude degrees																																								
	0			7			14			21			28			35			42			49			56			63			70			80			90				
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a
Nov 19	39.8	⁻⁶ ₄	39.4	⁻¹⁷ ₄	38.2	⁻²⁹ ₄	36.2	⁻⁴⁰ ₄	33.4	⁻⁵⁰ ₄	29.9	⁻⁶⁰ ₃	25.7	⁻⁶⁸ ₃	21.0	⁻⁷⁶ ₃	15.7	⁻⁸² ₂	9.9	⁻⁸⁸ ₂	3.8	⁻⁹² ₂	-5.4	⁻⁹⁵ ₁	-14.9																
Nov 20	40.1	⁻⁶ ₅	39.7	⁻¹⁸ ₄	38.4	⁻²⁹ ₄	36.4	⁻⁴⁰ ₄	33.6	⁻⁵⁰ ₄	30.1	⁻⁶⁰ ₄	25.9	⁻⁶⁹ ₃	21.1	⁻⁷⁷ ₃	15.8	⁻⁸³ ₃	10.0	⁻⁸⁸ ₂	3.8	⁻⁹³ ₂	-5.4	⁻⁹⁶ ₁	-15.0																
Nov 21	40.4	⁻⁶ ₅	40.0	⁻¹⁸ ₅	38.7	⁻²⁹ ₅	36.7	⁻⁴⁰ ₅	33.9	⁻⁵¹ ₄	30.3	⁻⁶¹ ₄	26.1	⁻⁶⁹ ₄	21.3	⁻⁷⁷ ₃	15.9	⁻⁸⁴ ₃	10.1	⁻⁸⁹ ₃	3.9	⁻⁹⁴ ₂	-5.5	⁻⁹⁷ ₁	-15.1																
Nov 22	40.7	⁻⁶ ₅	40.3	⁻¹⁸ ₅	39.0	⁻²⁹ ₅	37.0	⁻⁴¹ ₅	34.2	⁻⁵¹ ₄	30.6	⁻⁶¹ ₄	26.3	⁻⁷⁰ ₄	21.5	⁻⁷⁸ ₃	16.0	⁻⁸⁴ ₃	10.2	⁻⁹⁰ ₃	3.9	⁻⁹⁵ ₂	-5.5	⁻⁹⁸ ₁	-15.2																
Nov 23	41.1	⁻⁶ ₅	40.6	⁻¹⁸ ₅	39.4	⁻³⁰ ₅	37.3	⁻⁴¹ ₅	34.4	⁻⁵² ₅	30.8	⁻⁶² ₄	26.6	⁻⁷¹ ₄	21.6	⁻⁷⁸ ₄	16.2	⁻⁸⁵ ₃	10.2	⁻⁹¹ ₃	3.9	⁻⁹⁵ ₂	-5.6	⁻⁹⁸ ₁	-15.4																
Nov 24	41.4	⁻⁶ ₅	41.0	⁻¹⁸ ₅	39.7	⁻³⁰ ₅	37.6	⁻⁴¹ ₅	34.7	⁻⁵² ₅	31.1	⁻⁶² ₄	26.8	⁻⁷¹ ₄	21.8	⁻⁷⁹ ₄	16.3	⁻⁸⁶ ₃	10.3	⁻⁹¹ ₃	4.0	⁻⁹⁶ ₂	-5.6	⁻⁹⁹ ₁	-15.5																
Nov 25	41.8	⁻⁶ ₅	41.3	⁻¹⁸ ₅	40.1	⁻³⁰ ₅	37.9	⁻⁴² ₅	35.0	⁻⁵³ ₅	31.4	⁻⁶³ ₄	27.0	⁻⁷² ₄	22.0	⁻⁸⁰ ₄	16.5	⁻⁸⁷ ₃	10.4	⁻⁹² ₃	4.0	⁻⁹⁷ ₂	-5.7	⁻¹⁰⁰ ₁	-15.6																
Nov 26	42.1	⁻⁶ ₅	41.7	⁻¹⁸ ₅	40.4	⁻³⁰ ₅	38.3	⁻⁴² ₅	35.3	⁻⁵³ ₄	31.6	⁻⁶³ ₄	27.2	⁻⁷² ₄	22.2	⁻⁸⁰ ₃	16.6	⁻⁸⁷ ₃	10.5	⁻⁹³ ₃	4.0	⁻⁹⁸ ₂	-5.7	⁻¹⁰¹ ₁	-15.8																
Nov 27	42.5	⁻⁶ ₅	42.0	⁻¹⁹ ₅	40.7	⁻³¹ ₅	38.6	⁻⁴² ₅	35.6	⁻⁵³ ₄	31.9	⁻⁶⁴ ₄	27.5	⁻⁷³ ₄	22.4	⁻⁸¹ ₃	16.7	⁻⁸⁸ ₃	10.6	⁻⁹⁴ ₃	4.1	⁻⁹⁹ ₂	-5.8	⁻¹⁰² ₁	-15.9																
Nov 28	42.8	⁻⁶ ₄	42.4	⁻¹⁹ ₄	41.0	⁻³¹ ₄	38.9	⁻⁴³ ₄	35.9	⁻⁵⁴ ₄	32.2	⁻⁶⁴ ₄	27.7	⁻⁷³ ₃	22.6	⁻⁸² ₃	16.9	⁻⁸⁹ ₃	10.7	⁻⁹⁴ ₂	4.1	⁻⁹⁹ ₂	-5.8	⁻¹⁰³ ₁	-16.0																
Nov 29	43.1	⁻⁶ ₄	42.7	⁻¹⁹ ₄	41.3	⁻³¹ ₄	39.2	⁻⁴³ ₃	36.2	⁻⁵⁴ ₃	32.4	⁻⁶⁵ ₃	27.9	⁻⁷⁴ ₃	22.7	⁻⁸² ₃	17.0	⁻⁸⁹ ₂	10.8	⁻⁹⁵ ₂	4.1	⁻¹⁰⁰ ₂	-5.9	⁻¹⁰³ ₁	-16.1																
Nov 30	43.3	⁻⁶ ₃	42.9	⁻¹⁹ ₃	41.6	⁻³¹ ₂	39.4	⁻⁴³ ₂	36.4	⁻⁵⁴ ₂	32.6	⁻⁶⁵ ₂	28.0	⁻⁷⁴ ₂	22.9	⁻⁸³ ₂	17.1	⁻⁹⁰ ₂	10.8	⁻⁹⁶ ₁	4.1	⁻¹⁰¹ ₁	-5.9	⁻¹⁰⁴ ₁	-16.2																
Dec 1	43.5	⁻⁶ ₁	43.1	⁻¹⁹ ₁	41.7	⁻³¹ ₁	39.6	⁻⁴³ ₁	36.5	⁻⁵⁵ ₁	32.7	⁻⁶⁵ ₁	28.2	⁻⁷⁴ ₁	22.9	⁻⁸³ ₁	17.2	⁻⁹⁰ ₁	10.9	⁻⁹⁶ ₀	4.2	⁻¹⁰¹ ₀	-5.9	⁻¹⁰⁴ ₀	-16.3																
Dec 2	43.6	⁻⁶ ₋₁	43.1	⁻¹⁹ ₋₁	41.8	⁻³¹ ₋₁	39.6	⁻⁴³ ₋₁	36.6	⁻⁵⁵ ₋₁	32.8	⁻⁶⁵ ₋₁	28.2	⁻⁷⁴ ₋₁	23.0	⁻⁸³ ₋₁	17.2	⁻⁹⁰ ₋₁	10.9	⁻⁹⁶ ₋₁	4.2	⁻¹⁰¹ ₀	-5.9	⁻¹⁰⁴ ₀	-16.3																
Dec 3	43.5	⁻⁶ ₋₃	43.1	⁻¹⁹ ₋₃	41.7	⁻³¹ ₋₃	39.5	⁻⁴³ ₋₃	36.5	⁻⁵⁴ ₋₃	32.7	⁻⁶⁵ ₋₃	28.2	⁻⁷⁴ ₋₂	22.9	⁻⁸³ ₋₂	17.2	⁻⁹⁰ ₋₂	10.9	⁻⁹⁵ ₋₂	4.2	⁻¹⁰⁰ ₋₁	-5.9	⁻¹⁰⁴ ₋₁	-16.3																
Dec 4	43.3	⁻⁶ ₋₅	42.9	⁻¹⁹ ₋₅	41.5	⁻³¹ ₋₅	39.4	⁻⁴³ ₋₅	36.3	⁻⁵⁴ ₋₅	32.5	⁻⁶⁴ ₋₄	28.0	⁻⁷⁴ ₋₄	22.8	⁻⁸² ₋₄	17.1	⁻⁸⁹ ₋₃	10.8	⁻⁹⁵ ₋₃	4.1	⁻¹⁰⁰ ₋₂	-5.9	⁻¹⁰³ ₋₁	-16.2																
Dec 5	43.0	⁻⁶ ₋₇	42.5	⁻¹⁹ ₋₇	41.2	⁻³¹ ₋₇	39.0	⁻⁴² ₋₆	36.0	⁻⁵⁴ ₋₆	32.3	⁻⁶⁴ ₋₆	27.8	⁻⁷³ ₋₅	22.6	⁻⁸¹ ₋₅	16.9	⁻⁸⁸ ₋₄	10.7	⁻⁹⁴ ₋₄	4.1	⁻⁹⁹ ₋₃	-5.8	⁻¹⁰² ₋₂	-16.1																
Dec 6	42.5	⁻⁶ ₋₈	42.1	⁻¹⁸ ₋₈	40.8	⁻³⁰ ₋₈	38.6	⁻⁴² ₋₇	35.7	⁻⁵³ ₋₇	31.9	⁻⁶³ ₋₇	27.5	⁻⁷² ₋₆	22.4	⁻⁸⁰ ₋₅	16.7	⁻⁸⁷ ₋₅	10.6	⁻⁹³ ₋₄	4.1	⁻⁹⁸ ₋₃	-5.8	⁻¹⁰¹ ₋₂	-15.9																
Dec 7	41.9	⁻⁶ ₋₈	41.5	⁻¹⁸ ₋₈	40.2	⁻³⁰ ₋₈	38.1	⁻⁴¹ ₋₈	35.2	⁻⁵² ₋₇	31.5	⁻⁶² ₋₇	27.1	⁻⁷¹ ₋₆	22.1	⁻⁷⁹ ₋₆	16.5	⁻⁸⁶ ₋₅	10.5	⁻⁹² ₋₄	4.0	⁻⁹⁶ ₋₃	-5.7	⁻⁹⁹ ₋₂	-15.7																
Dec 8	41.4	⁻⁶ ₋₈	41.0	⁻¹⁸ ₋₈	39.7	⁻³⁰ ₋₈	37.6	⁻⁴¹ ₋₇	34.7	⁻⁵² ₋₇	31.1	⁻⁶¹ ₋₇	26.8	⁻⁷⁰ ₋₆	21.8	⁻⁷⁸ ₋₆	16.3	⁻⁸⁵ ₋₅	10.3	⁻⁹⁰ ₋₄	4.0	⁻⁹⁵ ₋₃	-5.6	⁻⁹⁸ ₋₂	-15.5																
Dec 9	40.8	⁻⁶ ₋₇	40.4	⁻¹⁸ ₋₇	39.2	⁻²⁹ ₋₇	37.1	⁻⁴⁰ ₋₇	34.3	⁻⁵¹ ₋₆	30.7	⁻⁶¹ ₋₆	26.4	⁻⁶⁹ ₋₅	21.5	⁻⁷⁷ ₋₅	16.1	⁻⁸⁴ ₋₄	10.2	⁻⁸⁹ ₋₄	3.9	⁻⁹⁴ ₋₃	-5.5	⁻⁹⁷ ₋₂	-15.3																
Dec 10	40.3	⁻⁶ ₋₆	39.9	⁻¹⁸ ₋₆	38.7	⁻²⁹ ₋₆	36.7	⁻⁴⁰ ₋₅	33.9	⁻⁵⁰ ₋₅	30.3	⁻⁶⁰ ₋₅	26.1	⁻⁶⁹ ₋₄	21.3	⁻⁷⁶ ₋₄	15.9	⁻⁸³ ₋₄	10.1	⁻⁸⁸ ₋₃	3.9	⁻⁹³ ₋₂	-5.5	⁻⁹⁶ ₋₂	-15.1																
Dec 11	39.9	⁻⁶ ₋₄	39.5	⁻¹⁷ ₋₄	38.3	⁻²⁹ ₋₄	36.3	⁻⁴⁰ ₋₄	33.5	⁻⁵⁰ ₋₄	30.0	⁻⁵⁹ ₋₃	25.8	⁻⁶⁸ ₋₃	21.1	⁻⁷⁶ ₋₃	15.7	⁻⁸² ₋₃	10.0	⁻⁸⁸ ₋₂	3.8	⁻⁹² ₋₂	-5.4	⁻⁹⁵ ₋₁	-15.0																
Dec 12	39.7	⁻⁶ ₋₂	39.2	⁻¹⁷ ₋₂	38.0	⁻²⁹ ₋₂	36.0	⁻³⁹ ₋₂	33.3	⁻⁵⁰ ₋₂	29.8	⁻⁵⁹ ₋₂	25.7	⁻⁶⁸ ₋₂	20.9	⁻⁷⁵ ₋₂	15.6	⁻⁸² ₋₁	9.9	⁻⁸⁷ ₋₁	3.8	⁻⁹² ₋₁	-5.4	⁻⁹⁴ ₋₁	-14.9																
Dec 13	39.5	⁻⁶ ₋₁	39.1	⁻¹⁷ ₋₁	37.9	⁻²⁸ ₋₁	35.9	⁻³⁹ ₀	33.1	⁻⁴⁹ ₀	29.7	⁻⁵⁹ ₀	25.5	⁻⁶⁸ ₀	20.8	⁻⁷⁵ ₀	15.6	⁻⁸² ₀	9.9	⁻⁸⁷ ₀	3.8	⁻⁹¹ ₀	-5.4	⁻⁹⁴ ₀	-14.8																
Dec 14	39.4	⁻⁶ ₁	39.0	⁻¹⁷ ₁	37.8	⁻²⁸ ₁	35.8	⁻³⁹ ₁	33.1	⁻⁴⁹ ₁	29.6	⁻⁵⁹ ₁	25.5	⁻⁶⁸ ₁	20.8	⁻⁷⁵ ₁	15.5	⁻⁸² ₁	9.8	⁻⁸⁷ ₁	3.8	⁻⁹¹ ₁	-5.4	⁻⁹⁴ ₀	-14.8																
Dec 15	39.5	⁻⁶ ₃	39.1	⁻¹⁷ ₃	37.9	⁻²⁹ ₃	35.9	⁻³⁹ ₃	33.2	⁻⁵⁰ ₃	29.7	⁻⁵⁹ ₂	25.6	⁻⁶⁸ ₂	20.8	⁻⁷⁵ ₂	15.6	⁻⁸² ₂	9.9	⁻⁸⁷ ₂	3.8	⁻⁹² ₁	-5.4	⁻⁹⁵ ₁	-14.8																
Dec 16	39.7	⁻⁶ ₄	39.3	⁻¹⁷ ₄	38.1	⁻²⁹ ₄	36.1	⁻⁴⁰ ₄	33.3	⁻⁵⁰ ₄	29.9	⁻⁶⁰ ₄	25.7	⁻⁶⁸ ₃	21.0	⁻⁷⁶ ₃	15.7	⁻⁸² ₃	9.9	⁻⁸⁸ ₂	3.8	⁻⁹² ₂	-5.4	⁻⁹⁵ ₁	-14.9																
Dec 17	40.0	⁻⁶ ₅	39.6	⁻¹⁸ ₅	38.4	⁻²⁹ ₅	36.4	⁻⁴⁰ ₅	33.6	⁻⁵⁰ ₅	30.1	⁻⁶⁰ ₄	25.9	⁻⁶⁹ ₄	21.1	⁻⁷⁷ ₄	15.8	⁻⁸³ ₃	10.0	⁻⁸⁸ ₃	3.8	⁻⁹³ ₂	-5.4	⁻⁹⁶ ₂	-15.0																
Dec 18	40.4	⁻⁶ ₆	40.0	⁻¹⁸ ₆	38.8	⁻²⁹ ₆	36.7	⁻⁴⁰ ₆	33.9	⁻⁵¹ ₅	30.4	⁻⁶¹ ₅	26.1	⁻⁶⁹ ₅	21.3	⁻⁷⁷ ₄	15.9	⁻⁸⁴ ₄	10.1	⁻⁸⁹ ₃	3.9	⁻⁹⁴ ₃	-5.5	⁻⁹⁷ ₂	-15.1																
Dec 19	40.8	⁻⁶ ₆	40.4	⁻¹⁸ ₆	39.1	⁻³⁰ ₆	37.1	⁻⁴¹ ₆	34.2	⁻⁵¹ ₆	30.7	⁻⁶¹ ₅	26.4	⁻⁷⁰ ₅	21.5	⁻⁷⁸ ₄	16.1	⁻⁸⁵ ₄	10.2	⁻⁹⁰ ₃	3.9	⁻⁹⁵ ₃	-5.5	⁻⁹⁸ ₂	-15.3																
Dec 20	41.2	⁻⁶ ₆	40.8	⁻¹⁸ ₆	39.6	⁻³⁰ ₆	37.5	⁻⁴¹ ₆	34.6	⁻⁵² ₅	31.0	⁻⁶² ₅	26.7	⁻⁷¹ ₅	21.7	⁻⁷⁹ ₄	16.3	⁻⁸⁶ ₄	10.3	⁻⁹¹ ₃	3.9	⁻⁹⁶ ₃	-5.6	⁻⁹⁹ ₂	-15.4																
Dec 21	41.7	⁻⁶ ₆	41.2	⁻¹⁸ ₅	40.0	⁻³⁰ ₅	37.9	⁻⁴² ₅	35.0	⁻⁵² ₅	31.3	⁻⁶² ₅	26.9	⁻⁷² ₄	22.0	⁻⁸⁰ ₄	16.4	⁻⁸⁶ ₃	10.4	⁻⁹² ₃	4.0	⁻⁹⁷ ₂	-5.7	⁻¹⁰⁰ ₂	-15.6																
Dec 22	42.0	⁻⁶ ₅	41.6	⁻¹⁸ ₅	40.3	⁻³⁰ ₅	38.2	⁻⁴² ₄	35.3	⁻⁵³ ₄	31.6	⁻⁶³ ₄	27.2	⁻⁷² ₄	22.2	⁻⁸⁰ ₃	16.6	⁻⁸⁷ ₃	10.5	⁻⁹³ ₂	4.0	⁻⁹⁸ ₂	-5.7	⁻¹⁰¹ ₁	-15.7																
Dec 23	42.4	⁻⁶ ₄	41.9	⁻¹⁹ ₄	40.6	⁻³¹ ₄	38.5	⁻⁴² ₄	35.5	⁻⁵³ ₃	31.8	⁻⁶³ ₃	27.4	⁻⁷³ ₃	22.3	⁻⁸¹ ₃	16.7	⁻⁸⁸ ₂	10.6	⁻⁹³ ₂	4.0	⁻⁹⁸ ₂	-5.8	⁻¹⁰¹ ₁	-15.9																
Dec 24	42.6	⁻⁶ ₃	42.2	⁻¹⁹ ₃	40.9	⁻³¹ ₃	38.7	⁻⁴² ₃	35.8	⁻⁵⁴ ₃	32.0	⁻⁶⁴ ₂	27.6	⁻⁷³ ₂	22.5																										