Occultation of PPM 210815 by 6 Hebe (USNO thru 12/15)

Time of minimum geocentric separation: 7:34:38.4 UT on Dec 18,1995
Minimum radial separation: 1.207 arcsec

Star at RA: 1 54 54.043
Dec: -11 30 40.74

Coordinates of equinox 2000.00

Occulting body ephemeris:

Ephemeris Day/Time	RA	Dec	Rho(AU)
Dec 18,1995 0: 0: 0.0	1 54 44.947	-11 34 47.04	1.363997
Dec 18,1995 2:24: 0.0	1 54 47.826	-11 33 29.45	1.364996
Dec 18,1995 4:48: 0.0	1 54 50.720	-11 32 11.77	1.365996
Dec 18,1995 7:12: 0.0	1 54 53.632	-11 30 54.01	1.366996
Dec 18,1995 9:36: 0.0	1 54 56.559	-11 29 36.16	1.367997
Dec 18,1995 12: 0: 0.0	1 54 59.504	-11 28 18.22	1.369000
Dec 18,1995 14:24: 0.0	1 55 2.464	-11 27 0.20	1.370003
Dec 18,1995 16:48: 0.0	1 55 5.441	-11 25 42.09	1.371006
Dec 18,1995 19:12: 0.0	1 55 8.435	-11 24 23.89	1.372011
Dec 18,1995 21:36: 0.0	1 55 11.444	-11 23 5.61	1.373017
Dec 19,1995 0: 0: 0.0	1 55 14.471	-11 21 47.25	1.374023
Dec 19,1995 2:24: 0.0	1 55 17.513	-11 20 28.80	1.375031
Dec 19,1995 4:48: 0.0	1 55 20.572	-11 19 10.26	1.376039
Dec 19,1995 7:12: 0.0	1 55 23.647	-11 17 51.65	1.377048
Dec 19,1995 9:36: 0.0	1 55 26.739	-11 16 32.95	1.378058

Corrections to ephemeris:
0.0030 sec in RA and -0.108 arcsec in Dec

Curves terminated at a sun altitude of 0.0 degrees

Adopted ET/UT correction: 62.16 seconds

Maximum possible occultation duration: 18.8 sec

Adopted radii of occulting body:
Equatorial: 96.0 km
Polar: 96.0 km

Position angle of the pole: 0.00 deg

Shadow is prograde (West to East/left to right)

At time of minimum separation, the Sun is 114.4 degrees from the star

At time of minimum separation the Moon is 19.4% illuminated and is 156.3 degrees from star

Output generated on: Sat Dec 16 11:21:20 1995

Northern Limit Curve

U.T. Day/Time	Lat (Deg)	Lon (Deg)	Sun Alt (Deg)	Star Alt (Deg)	Moon Alt (Deg)
Dec 18,1995 7:29:30.0	-42.74	176.96	-1.7S	58.2R	-35.0S
Dec 18,1995 7:30: 0.0	-40.00	175.07	-4.5S	61.2R	-38.0S
Dec 18,1995 7:30:30.0	-37.31	173.35	-7.3S	64.1R	-40.8S

Dec 18,1995	7:31: 0.0	-34.67	171.76	-10.0S	66.8R	-43.5S
Dec 18,1995	7:31:30.0	-32.07	170.28	-12.6S	69.5S	-46.2S
Dec 18,1995	7:32: 0.0	-29.50	168.89	-15.3S	71.9S	-48.8S
Dec 18,1995	7:32:30.0	-26.97	167.57	-17.8S	74.3S	-51.3R
Dec 18,1995	7:33: 0.0	-24.45	166.31	-20.4S	76.3S	-53.7R
Dec 18,1995	7:33:30.0	-21.96	165.08	-22.9S	78.1S	-56.1R
Dec 18,1995	7:34: 0.0	-19.47	163.89	-25.5S	79.3S	-58.3R
Dec 18,1995	7:34:30.0	-17.00	162.71	-28.0S	80.0S	-60.5R
Dec 18,1995	7:35: 0.0	-14.53	161.56	-30.5S	79.8S	-62.6R
Dec 18,1995	7:35:30.0	-12.06	160.40	-33.0S	79.0S	-64.5R
Dec 18,1995	7:36: 0.0	-9.58	159.24	-35.6S	77.5S	-66.3R
Dec 18,1995	7:36:30.0	-7.09	158.07	-38.1S	75.7S	-67.8R
Dec 18,1995	7:37: 0.0	-4.59	156.89	-40.6S	73.5S	-69.1R
Dec 18,1995	7:37:30.0	-2.07	155.67	-43.2S	71.1S	-70.1R
Dec 18,1995	7:38: 0.0	0.48	154.41	-45.8S	68.6S	-70.8R
Dec 18,1995	7:38:30.0	3.07	153.11	-48.4S	65.9S	-71.0R
Dec 18,1995	7:39: 0.0	5.69	151.74	-51.0S	63.1S	-70.7R
Dec 18,1995	7:39:30.0	8.37	150.30	-53.7S	60.2S	-70.0R
Dec 18,1995	7:40: 0.0	11.10	148.76	-56.4S	57.1S	-68.8R
Dec 18,1995	7:40:30.0	13.90	147.09	-59.2S	53.9S	-67.1R
Dec 18,1995	7:41: 0.0	16.79	145.28	-61.9S	50.6S	-65.0R
Dec 18,1995	7:41:30.0	19.78	143.26	-64.7S	47.0S	-62.6R
Dec 18,1995	7:42: 0.0	22.90	140.99	-67.4S	43.3S	-59.7R
Dec 18,1995	7:42:30.0	26.19	138.37	-70.0S	39.2S	-56.4R
Dec 18,1995	7:43: 0.0	29.69	135.24	-72.2S	34.7S	-52.6R
Dec 18,1995	7:43:30.0	33.48	131.36	-73.7S	29.6S	-48.1R
Dec 18,1995	7:44: 0.0	37.72	126.15	-73.6S	23.6S	-42.6R
Dec 18,1995	7:44:30.0	42.84	117.97	-70.5S	15.5S	-35.1R

Southern Limit Curve

U.T. Day/Time		Lat (Deg)	Lon (Deg)	Sun Alt (Deg)	Star Alt (Deg)	Moon Alt (Deg)
Dec 18,1995	7:29:30.0	-43.71	174.94	-2.3S	57.6R	-34.4S
Dec 18,1995	7:30: 0.0	-40.92	173.10	-5.2S	60.5R	-37.3S
Dec 18,1995	7:30:30.0	-38.20	171.43	-7.9S	63.3R	-40.1S
Dec 18,1995	7:31: 0.0	-35.52	169.89	-10.7S	66.0S	-42.8S
Dec 18,1995	7:31:30.0	-32.90	168.45	-13.3S	68.5S	-45.5S
Dec 18,1995	7:32: 0.0	-30.31	167.10	-15.9S	70.9S	-48.0R
Dec 18,1995	7:32:30.0	-27.75	165.81	-18.5S	73.1S	-50.5R
Dec 18,1995	7:33: 0.0	-25.22	164.57	-21.1S	75.0S	-52.8R
Dec 18,1995	7:33:30.0	-22.71	163.37	-23.7S	76.6S	-55.1R
Dec 18,1995	7:34: 0.0	-20.22	162.19	-26.2S	77.7S	-57.3R
Dec 18,1995	7:34:30.0	-17.73	161.04	-28.8S	78.2S	-59.4R
Dec 18,1995	7:35: 0.0	-15.25	159.90	-31.3S	78.1S	-61.4R
Dec 18,1995	7:35:30.0	-12.77	158.75	-33.8S	77.3S	-63.2R
Dec 18,1995	7:36: 0.0	-10.28	157.60	-36.4S	76.0S	-64.9R
Dec 18,1995	7:36:30.0	-7.79	156.44	-38.9S	74.3S	-66.4R
Dec 18,1995	7:37: 0.0	-5.28	155.26	-41.5S	72.3S	-67.6R
Dec 18,1995	7:37:30.0	-2.76	154.04	-44.1S	70.0S	-68.5R
Dec 18,1995	7:38: 0.0	-0.20	152.79	-46.7S	67.6S	-69.0R
Dec 18,1995	7:38:30.0	2.38	151.48	-49.4S	65.0S	-69.2R
Dec 18,1995	7:39: 0.0	5.01	150.10	-52.1S	62.2S	-68.9R
Dec 18,1995	7:39:30.0	7.68	148.65	-54.8S	59.4S	-68.2R
Dec 18,1995	7:40: 0.0	10.41	147.09	-57.6S	56.3S	-67.0R
Dec 18,1995	7:40:30.0	13.21	145.41	-60.4S	53.2S	-65.4R
Dec 18,1995	7:41: 0.0	16.09	143.56	-63.3S	49.8S	-63.4R
Dec 18,1995	7:41:30.0	19.07	141.52	-66.1S	46.3S	-61.0R
Dec 18,1995	7:42: 0.0	22.19	139.20	-69.0S	42.5S	-58.2R
Dec 18,1995	7:42:30.0	25.46	136.52	-71.7S	38.4S	-54.9R

Dec 18,1995	7:43: 0.0	28.94	133.31	-74.1S	33.9S	-51.2R
Dec 18,1995	7:43:30.0	32.72	129.31	-75.6S	28.8S	-46.7R
Dec 18,1995	7:44: 0.0	36.97	123.89	-75.1S	22.6S	-41.1R
Dec 18,1995	7:44:30.0	42.14	115.14	-71.2R	14.0S	-33.3R

Shadow Center Line

U.T. Day/Time		Lat (Deg)	Lon (Deg)	Sun Alt (Deg)	Star Alt (Deg)	Moon Alt (Deg)
Dec 18,1995	7:29:30.0	-43.23	175.96	-2.0S	57.9R	-34.7S
Dec 18,1995	7:30: 0.0	-40.46	174.09	-4.9S	60.9R	-37.6S
Dec 18,1995	7:30:30.0	-37.75	172.39	-7.6S	63.7R	-40.5S
Dec 18,1995	7:31: 0.0	-35.10	170.83	-10.3S	66.4R	-43.2S
Dec 18,1995	7:31:30.0	-32.48	169.37	-13.0S	69.0S	-45.8S
Dec 18,1995	7:32: 0.0	-29.91	168.00	-15.6S	71.4S	-48.4S
Dec 18,1995	7:32:30.0	-27.36	166.69	-18.2S	73.7S	-50.9R
Dec 18,1995	7:33: 0.0	-24.84	165.44	-20.8S	75.7S	-53.3R
Dec 18,1995	7:33:30.0	-22.34	164.23	-23.3S	77.3S	-55.6R
Dec 18,1995	7:34: 0.0	-19.85	163.04	-25.8S	78.5S	-57.8R
Dec 18,1995	7:34:30.0	-17.37	161.88	-28.4S	79.1S	-60.0R
Dec 18,1995	7:35: 0.0	-14.89	160.73	-30.9S	79.0S	-62.0R
Dec 18,1995	7:35:30.0	-12.41	159.58	-33.4S	78.2S	-63.9R
Dec 18,1995	7:36: 0.0	-9.93	158.43	-36.0S	76.8S	-65.6R
Dec 18,1995	7:36:30.0	-7.44	157.26	-38.5S	75.0S	-67.1R
Dec 18,1995	7:37: 0.0	-4.94	156.07	-41.1S	72.9S	-68.4R
Dec 18,1995	7:37:30.0	-2.41	154.86	-43.7S	70.6S	-69.3R
Dec 18,1995	7:38: 0.0	0.14	153.60	-46.3S	68.1S	-69.9R
Dec 18,1995	7:38:30.0	2.72	152.30	-48.9S	65.4S	-70.1R
Dec 18,1995	7:39: 0.0	5.35	150.93	-51.6S	62.7S	-69.8R
Dec 18,1995	7:39:30.0	8.02	149.48	-54.3S	59.8S	-69.1R
Dec 18,1995	7:40: 0.0	10.75	147.93	-57.0S	56.7S	-67.9R
Dec 18,1995	7:40:30.0	13.55	146.25	-59.8S	53.6S	-66.3R
Dec 18,1995	7:41: 0.0	16.44	144.42	-62.6S	50.2S	-64.2R
Dec 18,1995	7:41:30.0	19.43	142.39	-65.4S	46.7S	-61.8R
Dec 18,1995	7:42: 0.0	22.54	140.10	-68.2S	42.9S	-59.0R
Dec 18,1995	7:42:30.0	25.82	137.45	-70.9S	38.8S	-55.7R
Dec 18,1995	7:43: 0.0	29.31	134.28	-73.2S	34.3S	-51.9R
Dec 18,1995	7:43:30.0	33.10	130.34	-74.6S	29.2S	-47.4R
Dec 18,1995	7:44: 0.0	37.34	125.03	-74.4S	23.1S	-41.9R
Dec 18,1995	7:44:30.0	42.48	116.59	-70.9R	14.8S	-34.2R