

**ALPO Saturn Central Meridian  
(CM) Longitudes**

**2004**

**System I, II, and III**

**ALPO Saturn Section  
Julius L. Benton, Jr.**

**Date 0<sup>h</sup> UT CMI CMII CMIII**

2004-Jan-01	135.6	001.1	333.2
2004-Jan-02	260.0	093.2	064.0
2004-Jan-03	024.4	185.3	154.9
2004-Jan-04	148.8	277.3	245.8
2004-Jan-05	273.2	009.4	336.7
2004-Jan-06	037.5	101.5	067.6
2004-Jan-07	161.9	193.6	158.4
2004-Jan-08	286.3	285.7	249.3
2004-Jan-09	050.7	017.8	340.2
2004-Jan-10	175.0	109.8	071.0
2004-Jan-11	299.4	201.9	161.9
2004-Jan-12	063.8	294.0	252.8
2004-Jan-13	188.2	026.0	343.6
2004-Jan-14	312.5	118.1	074.5
2004-Jan-15	076.9	210.2	165.4
2004-Jan-16	201.2	302.2	256.2
2004-Jan-17	325.6	034.3	347.1
2004-Jan-18	090.0	126.4	077.9
2004-Jan-19	214.3	218.4	168.8
2004-Jan-20	338.7	310.5	259.6
2004-Jan-21	103.0	042.5	350.5
2004-Jan-22	227.4	134.6	081.3
2004-Jan-23	351.7	226.6	172.1
2004-Jan-24	116.1	318.7	263.0
2004-Jan-25	240.4	050.7	353.8
2004-Jan-26	004.7	142.7	084.7
2004-Jan-27	129.1	234.8	175.5
2004-Jan-28	253.4	326.8	266.3
2004-Jan-29	017.7	058.8	357.1
2004-Jan-30	142.1	150.9	088.0
2004-Jan-31	266.4	242.9	178.8
2004-Feb-01	030.7	334.9	269.6
2004-Feb-02	155.0	066.9	000.4

2004-Feb-03 279.3 159.0 091.2  
2004-Feb-04 043.7 251.0 182.0  
2004-Feb-05 168.0 343.0 272.8  
2004-Feb-06 292.3 075.0 003.6  
2004-Feb-07 056.6 167.0 094.4  
2004-Feb-08 180.9 259.0 185.2  
2004-Feb-09 305.2 351.0 276.0  
2004-Feb-10 069.5 083.0 006.8  
2004-Feb-11 193.8 175.0 097.6  
2004-Feb-12 318.1 267.0 188.4  
2004-Feb-13 082.4 359.0 279.2  
2004-Feb-14 206.6 091.0 010.0  
2004-Feb-15 330.9 183.0 100.8  
2004-Feb-16 095.2 274.9 191.5  
2004-Feb-17 219.5 006.9 282.3  
2004-Feb-18 343.8 098.9 013.1  
2004-Feb-19 108.0 190.9 103.8  
2004-Feb-20 232.3 282.8 194.6  
2004-Feb-21 356.6 014.8 285.4  
2004-Feb-22 120.8 106.8 016.1  
2004-Feb-23 245.1 198.7 106.9  
2004-Feb-24 009.3 290.7 197.6  
2004-Feb-25 133.6 022.7 288.4  
2004-Feb-26 257.8 114.6 019.1  
2004-Feb-27 022.1 206.6 109.9  
2004-Feb-28 146.3 298.5 200.6  
2004-Feb-29 270.6 030.5 291.4  
2004-Mar-01 034.8 122.4 022.1  
2004-Mar-02 159.1 214.3 112.9  
2004-Mar-03 283.3 306.3 203.6  
2004-Mar-04 047.5 038.2 294.3  
2004-Mar-05 171.8 130.2 025.0  
2004-Mar-06 296.0 222.1 115.8  
2004-Mar-07 060.2 314.0 206.5  
2004-Mar-08 184.4 045.9 297.2  
2004-Mar-09 308.7 137.9 027.9  
2004-Mar-10 072.9 229.8 118.6  
2004-Mar-11 197.1 321.7 209.4  
2004-Mar-12 321.3 053.6 300.1  
2004-Mar-13 085.5 145.5 030.8  
2004-Mar-14 209.7 237.4 121.5  
2004-Mar-15 333.9 329.4 212.2  
2004-Mar-16 098.1 061.3 302.9  
2004-Mar-17 222.3 153.2 033.6  
2004-Mar-18 346.5 245.1 124.3  
2004-Mar-19 110.7 337.0 215.0

2004-Mar-20 234.9 068.9 305.7  
2004-Mar-21 359.1 160.7 036.3  
2004-Mar-22 123.3 252.6 127.0  
2004-Mar-23 247.5 344.5 217.7  
2004-Mar-24 011.7 076.4 308.4  
2004-Mar-25 135.9 168.3 039.1  
2004-Mar-26 260.0 260.2 129.8  
2004-Mar-27 024.2 352.1 220.4  
2004-Mar-28 148.4 084.0 311.1  
2004-Mar-29 272.6 175.8 041.8  
2004-Mar-30 036.8 267.7 132.5  
2004-Mar-31 160.9 359.6 223.1  
2004-Apr-01 285.1 091.5 313.8  
2004-Apr-02 049.3 183.3 044.5  
2004-Apr-03 173.4 275.2 135.1  
2004-Apr-04 297.6 007.1 225.8  
2004-Apr-05 061.8 099.0 316.4  
2004-Apr-06 185.9 190.8 047.1  
2004-Apr-07 310.1 282.7 137.8  
2004-Apr-08 074.2 014.5 228.4  
2004-Apr-09 198.4 106.4 319.1  
2004-Apr-10 322.6 198.3 049.7  
2004-Apr-11 086.7 290.1 140.4  
2004-Apr-12 210.9 022.0 231.0  
2004-Apr-13 335.0 113.8 321.7  
2004-Apr-14 099.2 205.7 052.3  
2004-Apr-15 223.3 297.5 143.0  
2004-Apr-16 347.5 029.4 233.6  
2004-Apr-17 111.6 121.2 324.3  
2004-Apr-18 235.8 213.1 054.9  
2004-Apr-19 359.9 304.9 145.5  
2004-Apr-20 124.1 036.8 236.2  
2004-Apr-21 248.2 128.6 326.8  
2004-Apr-22 012.3 220.5 057.5  
2004-Apr-23 136.5 312.3 148.1  
2004-Apr-24 260.6 044.2 238.7  
2004-Apr-25 024.8 136.0 329.4  
2004-Apr-26 148.9 227.8 060.0  
2004-Apr-27 273.0 319.7 150.6  
2004-Apr-28 037.2 051.5 241.3  
2004-Apr-29 161.3 143.4 331.9  
2004-Apr-30 285.4 235.2 062.5  
2004-May-01 049.6 327.0 153.2  
2004-May-02 173.7 058.9 243.8  
2004-May-03 297.8 150.7 334.4  
2004-May-04 062.0 242.5 065.1

2004-May-05 186.1 334.4 155.7  
2004-May-06 310.2 066.2 246.3  
2004-May-07 074.4 158.0 336.9  
2004-May-08 198.5 249.9 067.6  
2004-May-09 322.6 341.7 158.2  
2004-May-10 086.8 073.5 248.8  
2004-May-11 210.9 165.4 339.4  
2004-May-12 335.0 257.2 070.1  
2004-May-13 099.1 349.0 160.7  
2004-May-14 223.3 080.9 251.3  
2004-May-15 347.4 172.7 341.9  
2004-May-16 111.5 264.5 072.6  
2004-May-17 235.7 356.3 163.2  
2004-May-18 359.8 088.2 253.8  
2004-May-19 123.9 180.0 344.4  
2004-May-20 248.0 271.8 075.1  
2004-May-21 012.2 003.7 165.7  
2004-May-22 136.3 095.5 256.3  
2004-May-23 260.4 187.3 346.9  
2004-May-24 024.5 279.2 077.6  
2004-May-25 148.7 011.0 168.2  
2004-May-26 272.8 102.8 258.8  
2004-May-27 036.9 194.6 349.4  
2004-May-28 161.1 286.5 080.1  
2004-May-29 285.2 018.3 170.7  
2004-May-30 049.3 110.1 261.3  
2004-May-31 173.4 202.0 351.9  
2004-Jun-01 297.6 293.8 082.6  
2004-Jun-02 061.7 025.6 173.2  
2004-Jun-03 185.8 117.5 263.8  
2004-Jun-04 310.0 209.3 354.4  
2004-Jun-05 074.1 301.1 085.1  
2004-Jun-06 198.2 033.0 175.7  
2004-Jun-07 322.4 124.8 266.3  
2004-Jun-08 086.5 216.6 356.9  
2004-Jun-09 210.6 308.5 087.6  
2004-Jun-10 334.8 040.3 178.2  
2004-Jun-11 098.9 132.1 268.8  
2004-Jun-12 223.0 224.0 359.5  
2004-Jun-13 347.2 315.8 090.1  
2004-Jun-14 111.3 047.6 180.7  
2004-Jun-15 235.4 139.5 271.3  
2004-Jun-16 359.6 231.3 002.0  
2004-Jun-17 123.7 323.2 092.6  
2004-Jun-18 247.9 055.0 183.2  
2004-Jun-19 012.0 146.8 273.9

2004-Jun-20 136.1 238.7 004.5  
2004-Jun-21 260.3 330.5 095.2  
2004-Jun-22 024.4 062.4 185.8  
2004-Jun-23 148.6 154.2 276.4  
2004-Jun-24 272.7 246.1 007.1  
2004-Jun-25 036.8 337.9 097.7  
2004-Jun-26 161.0 069.7 188.3  
2004-Jun-27 285.1 161.6 279.0  
2004-Jun-28 049.3 253.4 009.6  
2004-Jun-29 173.4 345.3 100.3  
2004-Jun-30 297.6 077.1 190.9  
2004-Jul-01 061.7 169.0 281.6  
2004-Jul-02 185.9 260.8 012.2  
2004-Jul-03 310.0 352.7 102.9  
2004-Jul-04 074.2 084.6 193.5  
2004-Jul-05 198.4 176.4 284.2  
2004-Jul-06 322.5 268.3 014.8  
2004-Jul-07 086.7 000.1 105.5  
2004-Jul-08 210.8 092.0 196.1  
2004-Jul-09 335.0 183.8 286.8  
2004-Jul-10 099.1 275.7 017.4  
2004-Jul-11 223.3 007.6 108.1  
2004-Jul-12 347.5 099.4 198.7  
2004-Jul-13 111.6 191.3 289.4  
2004-Jul-14 235.8 283.2 020.1  
2004-Jul-15 360.0 015.0 110.7  
2004-Jul-16 124.1 106.9 201.4  
2004-Jul-17 248.3 198.8 292.0  
2004-Jul-18 012.5 290.6 022.7  
2004-Jul-19 136.7 022.5 113.4  
2004-Jul-20 260.8 114.4 204.0  
2004-Jul-21 025.0 206.3 294.7  
2004-Jul-22 149.2 298.1 025.4  
2004-Jul-23 273.4 030.0 116.1  
2004-Jul-24 037.6 121.9 206.7  
2004-Jul-25 161.7 213.8 297.4  
2004-Jul-26 285.9 305.7 028.1  
2004-Jul-27 050.1 037.6 118.8  
2004-Jul-28 174.3 129.4 209.4  
2004-Jul-29 298.5 221.3 300.1  
2004-Jul-30 062.7 313.2 030.8  
2004-Jul-31 186.9 045.1 121.5  
2004-Aug-01 311.1 137.0 212.2  
2004-Aug-02 075.2 228.9 302.9  
2004-Aug-03 199.4 320.8 033.6  
2004-Aug-04 323.6 052.7 124.2

2004-Aug-05 087.8 144.6 214.9  
2004-Aug-06 212.0 236.5 305.6  
2004-Aug-07 336.2 328.4 036.3  
2004-Aug-08 100.4 060.3 127.0  
2004-Aug-09 224.7 152.2 217.7  
2004-Aug-10 348.9 244.1 308.4  
2004-Aug-11 113.1 336.0 039.1  
2004-Aug-12 237.3 067.9 129.8  
2004-Aug-13 001.5 159.8 220.5  
2004-Aug-14 125.7 251.7 311.2  
2004-Aug-15 249.9 343.7 042.0  
2004-Aug-16 014.1 075.6 132.7  
2004-Aug-17 138.4 167.5 223.4  
2004-Aug-18 262.6 259.4 314.1  
2004-Aug-19 026.8 351.3 044.8  
2004-Aug-20 151.0 083.3 135.5  
2004-Aug-21 275.3 175.2 226.2  
2004-Aug-22 039.5 267.1 317.0  
2004-Aug-23 163.7 359.0 047.7  
2004-Aug-24 288.0 091.0 138.4  
2004-Aug-25 052.2 182.9 229.1  
2004-Aug-26 176.4 274.8 319.9  
2004-Aug-27 300.7 006.8 050.6  
2004-Aug-28 064.9 098.7 141.3  
2004-Aug-29 189.1 190.6 232.1  
2004-Aug-30 313.4 282.6 322.8  
2004-Aug-31 077.6 014.5 053.5  
2004-Sep-01 201.9 106.5 144.3  
2004-Sep-02 326.1 198.4 235.0  
2004-Sep-03 090.4 290.4 325.8  
2004-Sep-04 214.6 022.3 056.5  
2004-Sep-05 338.9 114.3 147.2  
2004-Sep-06 103.2 206.2 238.0  
2004-Sep-07 227.4 298.2 328.7  
2004-Sep-08 351.7 030.2 059.5  
2004-Sep-09 115.9 122.1 150.3  
2004-Sep-10 240.2 214.1 241.0  
2004-Sep-11 004.5 306.0 331.8  
2004-Sep-12 128.7 038.0 062.5  
2004-Sep-13 253.0 130.0 153.3  
2004-Sep-14 017.3 221.9 244.1  
2004-Sep-15 141.6 313.9 334.8  
2004-Sep-16 265.8 045.9 065.6  
2004-Sep-17 030.1 137.9 156.4  
2004-Sep-18 154.4 229.8 247.1  
2004-Sep-19 278.7 321.8 337.9

2004-Sep-20 043.0 053.8 068.7  
2004-Sep-21 167.3 145.8 159.5  
2004-Sep-22 291.5 237.8 250.2  
2004-Sep-23 055.8 329.8 341.0  
2004-Sep-24 180.1 061.8 071.8  
2004-Sep-25 304.4 153.8 162.6  
2004-Sep-26 068.7 245.7 253.4  
2004-Sep-27 193.0 337.7 344.2  
2004-Sep-28 317.3 069.7 075.0  
2004-Sep-29 081.6 161.7 165.8  
2004-Sep-30 205.9 253.7 256.6  
2004-Oct-01 330.2 345.7 347.4  
2004-Oct-02 094.5 077.7 078.1  
2004-Oct-03 218.8 169.8 169.0  
2004-Oct-04 343.2 261.8 259.8  
2004-Oct-05 107.5 353.8 350.6  
2004-Oct-06 231.8 085.8 081.4  
2004-Oct-07 356.1 177.8 172.2  
2004-Oct-08 120.4 269.8 263.0  
2004-Oct-09 244.8 001.8 353.8  
2004-Oct-10 009.1 093.9 084.6  
2004-Oct-11 133.4 185.9 175.4  
2004-Oct-12 257.7 277.9 266.3  
2004-Oct-13 022.1 009.9 357.1  
2004-Oct-14 146.4 102.0 087.9  
2004-Oct-15 270.7 194.0 178.7  
2004-Oct-16 035.1 286.0 269.5  
2004-Oct-17 159.4 018.1 000.4  
2004-Oct-18 283.7 110.1 091.2  
2004-Oct-19 048.1 202.1 182.0  
2004-Oct-20 172.4 294.2 272.9  
2004-Oct-21 296.8 026.2 003.7  
2004-Oct-22 061.1 118.3 094.5  
2004-Oct-23 185.5 210.3 185.4  
2004-Oct-24 309.8 302.4 276.2  
2004-Oct-25 074.2 034.4 007.1  
2004-Oct-26 198.5 126.5 097.9  
2004-Oct-27 322.9 218.5 188.8  
2004-Oct-28 087.2 310.6 279.6  
2004-Oct-29 211.6 042.6 010.5  
2004-Oct-30 336.0 134.7 101.3  
2004-Oct-31 100.3 226.7 192.2  
2004-Nov-01 224.7 318.8 283.0  
2004-Nov-02 349.0 050.9 013.9  
2004-Nov-03 113.4 142.9 104.7  
2004-Nov-04 237.8 235.0 195.6

2004-Nov-05 002.2 327.1 286.5  
2004-Nov-06 126.5 059.1 017.3  
2004-Nov-07 250.9 151.2 108.2  
2004-Nov-08 015.3 243.3 199.0  
2004-Nov-09 139.6 335.3 289.9  
2004-Nov-10 264.0 067.4 020.8  
2004-Nov-11 028.4 159.5 111.7  
2004-Nov-12 152.8 251.6 202.5  
2004-Nov-13 277.2 343.7 293.4  
2004-Nov-14 041.6 075.7 024.3  
2004-Nov-15 165.9 167.8 115.1  
2004-Nov-16 290.3 259.9 206.0  
2004-Nov-17 054.7 352.0 296.9  
2004-Nov-18 179.1 084.1 027.8  
2004-Nov-19 303.5 176.2 118.7  
2004-Nov-20 067.9 268.2 209.5  
2004-Nov-21 192.3 000.3 300.4  
2004-Nov-22 316.7 092.4 031.3  
2004-Nov-23 081.1 184.5 122.2  
2004-Nov-24 205.5 276.6 213.1  
2004-Nov-25 329.9 008.7 304.0  
2004-Nov-26 094.2 100.8 034.9  
2004-Nov-27 218.6 192.9 125.7  
2004-Nov-28 343.0 285.0 216.6  
2004-Nov-29 107.4 017.1 307.5  
2004-Nov-30 231.8 109.2 038.4  
2004-Dec-01 356.2 201.3 129.3  
2004-Dec-02 120.6 293.4 220.2  
2004-Dec-03 245.0 025.5 311.1  
2004-Dec-04 009.5 117.6 042.0  
2004-Dec-05 133.9 209.7 132.9  
2004-Dec-06 258.3 301.8 223.8  
2004-Dec-07 022.7 033.9 314.7  
2004-Dec-08 147.1 126.0 045.6  
2004-Dec-09 271.5 218.1 136.5  
2004-Dec-10 035.9 310.2 227.4  
2004-Dec-11 160.3 042.3 318.3  
2004-Dec-12 284.7 134.4 049.2  
2004-Dec-13 049.1 226.5 140.1  
2004-Dec-14 173.5 318.6 231.0  
2004-Dec-15 297.9 050.7 321.9  
2004-Dec-16 062.3 142.8 052.8  
2004-Dec-17 186.7 234.9 143.7  
2004-Dec-18 311.1 327.0 234.6  
2004-Dec-19 075.5 059.2 325.5  
2004-Dec-20 200.0 151.3 056.4



2004-Dec-21 324.4 243.4 147.3  
 2004-Dec-22 088.8 335.5 238.2  
 2004-Dec-23 213.2 067.6 329.1  
 2004-Dec-24 337.6 159.7 060.0  
 2004-Dec-25 102.0 251.8 150.9  
 2004-Dec-26 226.4 343.9 241.8  
 2004-Dec-27 350.8 076.0 332.7  
 2004-Dec-28 115.2 168.1 063.6  
 2004-Dec-29 239.6 260.2 154.4  
 2004-Dec-30 004.0 352.3 245.3  
 2004-Dec-31 128.4 084.4 336.2

**Change in Longitude in Intervals of Mean Time for System I**

System I (NEBs, EZ, SEBn)

<b>h</b>	<b>°</b>	<b>m</b>	<b>°</b>	<b>m</b>	<b>°</b>
1	35.2	10	5.9	1	0.6
2	70.4	20	11.7	2	1.2
3	105.5	30	17.6	3	1.8
4	140.7	40	23.5	4	2.3
5	175.9	50	29.3	5	2.9
6	211.1	60	35.2	6	3.5
8	281.4			8	4.7
9	316.6			9	5.3
10	351.8			10	5.9

**Change in Longitude in Intervals of Mean Time for System II**

System II (Areas N or S of System I)

<b>h</b>	<b>°</b>	<b>m</b>	<b>°</b>	<b>m</b>	<b>°</b>
1	33.8	10	5.6	1	0.6
2	67.7	20	11.3	2	1.1
3	101.5	30	16.9	3	1.7
4	135.3	40	22.6	4	2.3
5	169.2	50	28.2	5	2.8
6	203.0	60	33.8	6	3.4
7	236.8			7	3.9
8	270.7			8	4.5
9	304.5			9	5.1
10	338.3			10	5.6

**Change in Longitude in Intervals of Mean Time for System III**

System III (Origin of Radio Emissions)

<b>h</b>	<b>°</b>	<b>m</b>	<b>°</b>	<b>m</b>	<b>°</b>
1	33.8	10	5.6	1	0.6
2	67.6	20	11.3	2	1.1
3	101.3	30	16.9	3	1.7
4	135.1	40	22.5	4	2.3
5	168.9	50	28.2	5	2.8
6	202.7	60	33.8	6	3.4
7	236.5			7	3.9
8	270.3			8	4.5
9	304.0			9	5.1
10	337.8			10	5.6