

DAILY POLYNOMIAL COEFFICIENTS FOR LUNAR COORDINATES

Notes and formulae

On the following pages, for each day of the year, the apparent right ascension (α) and declination (δ) of the Moon are represented by economised polynomials of the fifth degree, and the horizontal parallax (π) is represented by an economised polynomial of the fourth degree.

The formulae to be evaluated are of the form:

$$a_0 + a_1p + a_2p^2 + a_3p^3 + a_4p^4 + a_5p^5$$

where a_5 is zero for the parallax.

The time-interval from 0^h TT is expressed as a fraction of a day to form the interpolation factor p , where $0 \leq p < 1$, and the polynomial is evaluated directly, or by re-expressing it in the nested form:

$$(((a_5p + a_4)p + a_3)p + a_2)p + a_1)p + a_0$$

to avoid the separate formation of the powers of p . Alternatively this nested form for α and δ may be written as:

$$b_{n+1} = b_n p + a_{5-n}, \text{ for } n = 1 \text{ to } 5,$$

where $b_1 = a_5$ and b_6 is the required value. For the parallax a_5 is zero, so that:

$$b_{n+1} = b_n p + a_{4-n}, \text{ for } n = 1 \text{ to } 4,$$

where $b_1 = a_4$ and b_5 is the required value.

The polynomial coefficients are expressed in decimals of a degree, even for α , and the signs are given on the right-hand sides of the coefficients to facilitate their use with small calculators. Subtract 360° from α if it exceeds 360° . In order to obtain the full precision of the polynomial ephemeris the interpolating factor p must be evaluated to 8 decimal places (10^{-3} s); estimates of the precision of unrounded interpolated values are:

| RA | Dec | HP |
|----------------|---------------|----------------|
| $\pm 0^s 0003$ | $\pm 0'' 003$ | $\pm 0'' 0003$ |

Particular care must be taken to ensure that the coefficients are entered with the correct signs.

Example. To calculate the apparent right ascension (α) the declination (δ) and the horizontal parallax (π) for the Moon on 2010 January 21^d 13^h 23^m 48^s.32 UT1, using an assumed value of $\Delta T = 66^s$.

$$\text{TT} = 13^{\text{h}} 24^{\text{m}} 54^{\text{s}}.32, \text{ hence } p = 0.558\,962\,04$$

| | right ascension | declination | horizontal parallax |
|-------|--|--------------------------|-------------------------|
| b_1 | $-0.000\,1655$ | $-0.000\,1647$ | $-0.000\,007\,43$ |
| b_2 | $+0.000\,4481$ | $-0.001\,1761$ | $+0.000\,012\,09$ |
| b_3 | $+0.041\,8252$ | $-0.029\,6033$ | $+0.001\,212\,12$ |
| b_4 | $+0.208\,2218$ | $-0.080\,8279$ | $+0.008\,651\,00$ |
| b_5 | $+11.131\,1340$ | $+5.110\,9515$ | $\pi = +0.918\,534\,17$ |
| b_6 | $\alpha = 6.712\,9016$ | $\delta = +8.542\,9886$ | |
| | $= 0^{\text{h}} 26^{\text{m}} 51^{\text{s}}.096$ | $= +8^\circ 32' 34''.76$ | $= 55' 06''.723$ |

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|-------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| | January 0 | | | January 8 | | |
| a_0 | 88.0997 097+ | 25.4814 909+ | 1.0099 4074+ | 200.6587 373+ | 14.3969 897- | 0.9568 5010+ |
| a_1 | 16.4465 499+ | 1.0682 864- | 0.0093 6270+ | 12.7296 553+ | 4.8917 870- | 0.0128 2350- |
| a_2 | 120 068+ | 9274 091- | 21 8788- | 1114 226+ | 4049 814+ | 5 3690+ |
| a_3 | 1090 877- | 38 237+ | 1 9282- | 240 476+ | 334 288+ | 8434+ |
| a_4 | 23 814+ | 124 157+ | 2870+ | 38 372- | 11 940- | 1152- |
| a_5 | 20 132+ | 5 121- | | 2 207- | 337- | |
| | January 1 | | | January 9 | | |
| a_0 | 104.4535 734+ | 23.5015 227+ | 1.0169 5144+ | 213.5198 048+ | 18.8515 942- | 0.9446 3632+ |
| a_1 | 16.1628 723+ | 2.8645 383- | 0.0045 2346+ | 13.0081 927+ | 3.9864 835- | 0.0115 4277- |
| a_2 | 2808 191- | 8466 170- | 25 9268- | 1583 220+ | 4977 649+ | 7 2185+ |
| a_3 | 803 970- | 480 124+ | 7474- | 65 905+ | 282 503+ | 3813+ |
| a_4 | 125 640+ | 94 915+ | 3348+ | 50 240- | 13 779- | 814- |
| a_5 | 2 352+ | 11 264- | | 537- | 1 495- | |
| | January 2 | | | January 10 | | |
| a_0 | 120.2680 288+ | 19.8467 448+ | 1.0188 4095+ | 226.6878 323+ | 22.3135 901- | 0.9338 4538+ |
| a_1 | 15.4114 621+ | 4.3813 992- | 0.0007 5204- | 13.3242 474+ | 2.9124 626- | 0.0100 1725- |
| a_2 | 4443 497- | 6569 302- | 26 1776- | 1474 030+ | 5727 464+ | 7 8846+ |
| a_3 | 284 543- | 748 125+ | 6235+ | 138 497- | 212 251+ | 564+ |
| a_4 | 132 190+ | 36 148+ | 2778+ | 53 500- | 21 721- | 469- |
| a_5 | 9 168- | 9 293- | | 2 849+ | 1 834- | |
| | January 3 | | | January 11 | | |
| a_0 | 135.2189 890+ | 14.8859 135+ | 1.0155 6127+ | 240.1405 679+ | 24.6344 367- | 0.9246 1754+ |
| a_1 | 14.4856 906+ | 5.4610 038- | 0.0056 8931- | 13.5575 328+ | 1.7128 988- | 0.0084 4217- |
| a_2 | 4596 153- | 4200 977- | 22 6799- | 766 108+ | 6215 478+ | 7 7818+ |
| a_3 | 152 005+ | 802 596+ | 1 7485+ | 322 159- | 107 573+ | 1296- |
| a_4 | 83 114+ | 10 385- | 1479+ | 38 675- | 31 400- | 164- |
| a_5 | 9 700- | 4 309- | | 6 157+ | 880- | |
| | January 4 | | | January 12 | | |
| a_0 | 149.2676 062+ | 9.0836 022+ | 1.0077 9360+ | 253.7392 439+ | 25.7182 584- | 0.9169 3896+ |
| a_1 | 13.6404 610+ | 6.0667 243- | 0.0096 4161- | 13.6017 156+ | 0.4505 293- | 0.0069 3120- |
| a_2 | 3738 518- | 1898 460- | 16 5898- | 370 653- | 6340 982+ | 7 3026+ |
| a_3 | 389 377+ | 720 207+ | 2 3336+ | 415 047- | 25 828- | 1928- |
| a_4 | 34 254+ | 31 077- | 82+ | 6 432- | 35 900- | 80+ |
| a_5 | 6 228- | 445- | | 6 612+ | 890+ | |
| | January 5 | | | January 13 | | |
| a_0 | 162.5759 558+ | 2.8959 004+ | 0.9967 2718+ | 267.2624 076+ | 25.5407 732- | 0.9107 1954+ |
| a_1 | 13.0201 616+ | 6.2430 055- | 0.0122 5630- | 13.4038 009+ | 0.7960 052+ | 0.0055 2530- |
| a_2 | 2427 056- | 71 367+ | 9 5708- | 1588 149- | 6057 050+ | 6 7777+ |
| a_3 | 465 696+ | 592 523+ | 2 3494+ | 376 239- | 159 745- | 1582- |
| a_4 | 3 732+ | 32 504- | 919- | 27 516+ | 31 065- | 250+ |
| a_5 | 3 526- | 1 383+ | | 3 761+ | 2 270+ | |
| | January 6 | | | January 14 | | |
| a_0 | 175.4000 022+ | 3.2838 281- | 0.9837 3954+ | 280.4728 975+ | 24.1579 170- | 0.9058 5870+ |
| a_1 | 12.6741 906+ | 6.0632 845- | 0.0135 0250- | 12.9861 823+ | 1.9482 008+ | 0.0042 0719- |
| a_2 | 1042 762- | 1667 832+ | 3 0884- | 2514 218- | 5414 189+ | 6 4561+ |
| a_3 | 446 001+ | 476 501+ | 1 9651+ | 230 618- | 261 161- | 555- |
| a_4 | 13 362- | 25 048- | 1374- | 45 959+ | 19 242- | 341+ |
| a_5 | 2 496- | 1 634+ | | 96+ | 2 500+ | |
| | January 7 | | | January 15 | | |
| a_0 | 188.0129 308+ | 9.1350 207- | 0.9701 1099+ | 293.1892 016+ | 21.6960 877- | 0.9022 9498+ |
| a_1 | 12.5928 457+ | 5.5959 707- | 0.0135 8564- | 12.4325 822+ | 2.9462 424+ | 0.0029 1897- |
| a_2 | 190 118+ | 2963 440+ | 1 9820+ | 2929 495- | 4540 280+ | 6 4946+ |
| a_3 | 367 657+ | 392 232+ | 1 4045+ | 47 026- | 313 514- | 833+ |
| a_4 | 25 718- | 16 553- | 1389- | 45 537+ | 6 516- | 352+ |
| a_5 | 2 448- | 897+ | | 2 036- | 1 806+ | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| January 16 | | | January 24 | | | |
| a_0 | 305.3284 818 + | 18.3276 398 - | 0.9000 3733 + | 36.3169 488 + | 19.6679 594 + | 0.9482 4279 + |
| a_1 | 11.8497 712 + | 3.7585 393 + | 0.0015 8095 - | 13.2175 241 + | 3.8088 768 + | 0.0147 1629 + |
| a_2 | 2817 821 - | 3578 694 + | 6 9541 + | 5222 144 + | 4231 657 - | 8 4779 + |
| a_3 | 114 597 + | 322 074 - | 2263 + | 210 909 + | 533 742 - | 1 1354 - |
| a_4 | 34 701 + | 2 499 + | 292 + | 58 624 - | 23 839 - | 1633 - |
| a_5 | 2 332 - | 824 + | | 8 260 - | 4 262 + | |
| January 17 | | | January 25 | | | |
| a_0 | 316.9111 675 + | 14.2431 062 - | 0.8991 7734 + | 50.0710 897 + | 22.9983 386 + | 0.9636 7699 + |
| a_1 | 11.3333 011 + | 4.3790 663 + | 0.0001 1054 - | 14.2976 529 + | 2.7950 232 + | 0.0160 0584 + |
| a_2 | 2289 186 - | 2635 685 + | 7 8046 + | 5419 947 + | 5933 238 - | 4 0944 + |
| a_3 | 230 485 + | 304 328 - | 3449 + | 102 696 - | 584 043 - | 1 8021 - |
| a_4 | 22 794 + | 6 507 + | 173 + | 103 890 - | 2 166 - | 1557 - |
| a_5 | 1 675 - | 35 - | | 2 423 - | 8 618 + | |
| January 18 | | | January 26 | | | |
| a_0 | 328.0407 104 + | 9.6302 569 - | 0.8998 8348 + | 64.8898 363 + | 25.1422 790 + | 0.9798 9651 + |
| a_1 | 10.9528 904 + | 4.8174 895 + | 0.0015 6077 + | 15.3080 811 + | 1.4366 061 + | 0.0162 2172 + |
| a_2 | 1477 717 - | 1761 375 + | 8 9377 + | 4464 031 + | 7611 824 - | 2 2267 - |
| a_3 | 305 392 + | 279 016 - | 4153 + | 534 793 - | 506 182 - | 2 4451 - |
| a_4 | 14 444 + | 6 230 + | 6 + | 117 777 - | 43 424 + | 949 - |
| a_5 | 899 - | 677 - | | 11 389 + | 9 411 + | |
| January 19 | | | January 27 | | | |
| a_0 | 338.8777 228 + | 4.6639 762 - | 0.9023 7961 + | 80.5802 025 + | 25.7723 680 + | 0.9956 4158 + |
| a_1 | 10.7542 930 + | 5.0882 126 + | 0.0034 7318 + | 15.9990 432 + | 0.2155 450 - | 0.0150 0482 + |
| a_2 | 483 857 - | 954 920 + | 10 1811 + | 2267 670 + | 8775 352 - | 10 0922 - |
| a_3 | 354 447 + | 261 145 - | 4192 + | 887 162 - | 241 772 - | 2 8441 - |
| a_4 | 10 092 + | 2 768 + | 200 - | 55 270 - | 93 032 + | 305 + |
| a_5 | 454 - | 1 157 - | | 20 382 + | 3 386 + | |
| January 20 | | | January 28 | | | |
| a_0 | 349.6200 386 + | 0.4937 749 + | 0.9069 1081 + | 96.7138 078 + | 24.6647 525 + | 1.0093 5584 + |
| a_1 | 10.7676 651 + | 5.2013 814 + | 0.0056 2715 + | 16.1745 031 + | 2.0042 507 - | 0.0121 4533 + |
| a_2 | 635 522 + | 176 507 + | 11 3107 + | 520 745 - | 8908 703 - | 18 3906 - |
| a_3 | 390 189 + | 261 847 - | 3404 + | 908 441 - | 159 422 + | 2 7268 - |
| a_4 | 8 062 + | 3 099 - | 449 - | 52 830 + | 109 320 + | 1968 + |
| a_5 | 608 - | 1 515 - | | 12 873 + | 5 200 - | |
| January 21 | | | January 29 | | | |
| a_0 | 0.4910 203 + | 5.6861 608 + | 0.9136 9859 + | 112.7519 625 + | 21.7959 856 + | 1.0194 0912 + |
| a_1 | 11.0147 459 + | 5.1561 312 + | 0.0079 7347 + | 15.8253 742 + | 3.6970 413 - | 0.0077 2800 + |
| a_2 | 1848 431 + | 642 808 - | 12 0536 + | 2800 516 - | 7826 883 - | 25 3472 - |
| a_3 | 415 747 + | 289 459 - | 1624 + | 576 272 - | 542 330 + | 1 9185 - |
| a_4 | 5 406 + | 10 840 - | 743 - | 116 134 + | 80 742 + | 3382 + |
| a_5 | 1 655 - | 1 647 - | | 1 366 - | 9 271 - | |
| January 22 | | | January 30 | | | |
| a_0 | 11.7325 591 + | 10.7478 166 + | 0.9228 8623 + | 128.2511 347 + | 17.3776 361 + | 1.0244 4438 + |
| a_1 | 11.5104 884 + | 4.9355 732 + | 0.0104 0321 + | 15.1381 521 + | 5.0720 562 - | 0.0022 1854 + |
| a_2 | 3111 612 + | 1592 752 - | 12 0848 + | 3846 773 - | 5808 377 - | 29 0602 - |
| a_3 | 419 511 + | 348 995 - | 1338 - | 129 554 - | 773 292 + | 5253 - |
| a_4 | 2 418 - | 19 462 - | 1077 - | 105 302 + | 32 809 + | 3805 + |
| a_5 | 3 901 - | 1 178 - | | 8 405 - | 7 901 - | |
| January 23 | | | January 31 | | | |
| a_0 | 23.5955 278 + | 15.4871 511 + | 0.9344 7377 + | 143.0013 437 + | 11.8045 622 + | 1.0237 4241 + |
| a_1 | 12.2557 430 + | 4.5039 525 + | 0.0127 3696 + | 14.3678 498 + | 5.9925 668 - | 0.0035 9871 - |
| a_2 | 4316 614 + | 2768 400 - | 11 0272 + | 3687 978 - | 3370 677 - | 28 3780 - |
| a_3 | 369 089 + | 437 570 - | 5657 - | 207 717 + | 827 509 + | 1 0326 + |
| a_4 | 21 939 - | 26 073 - | 1409 - | 61 288 + | 6 870 - | 2989 + |
| a_5 | 6 983 - | 600 + | | 7 919 - | 4 395 - | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| February 1 | | | February 9 | | | |
| a_0 | 157-0265 043+ | 5-5565 521+ | 1-0174 3904+ | 264-0219 967+ | 25-6547 550- | 0-9132 3591+ |
| a_1 | 13-7131 279+ | 6-4233 915- | 0-0088 4490- | 13-4290 639+ | 0-4915 126+ | 0-0075 4493- |
| a_2 | 2776 311- | 973 248- | 23 5352- | 1525 255- | 6099 520+ | 11 1531+ |
| a_3 | 375 148+ | 757 876+ | 2 2404+ | 328 943- | 146 938- | 2183- |
| a_4 | 21 610+ | 28 376- | 1403+ | 20 521+ | 26 196- | 312- |
| a_5 | 5 288- | 1 282- | | 3 526+ | 1 703+ | |
| February 2 | | | February 10 | | | |
| a_0 | 170-5011 482+ | 0-8913 424- | 1-0064 7869+ | 277-2680 455+ | 24-5704 336- | 0-9067 8134+ |
| a_1 | 13-2764 126+ | 6-4026 677- | 0-0128 2373- | 13-0352 979+ | 1-6577 081+ | 0-0053 9226- |
| a_2 | 1574 028- | 1117 395+ | 16 0205- | 2353 735- | 5518 599+ | 10 3185+ |
| a_3 | 409 792+ | 632 604+ | 2 7904+ | 213 301- | 234 600- | 3416- |
| a_4 | 4 397- | 34 175- | 175- | 37 971+ | 17 369- | 74- |
| a_5 | 3 450- | 529+ | | 509+ | 1 858+ | |
| February 3 | | | February 11 | | | |
| a_0 | 183-6603 525+ | 7-1223 748- | 0-9923 3019+ | 290-0504 878+ | 22-3858 766- | 0-9023 8604+ |
| a_1 | 13-0810 617+ | 6-0028 125- | 0-0151 9782- | 12-5160 010+ | 2-6850 288+ | 0-0034 3397- |
| a_2 | 405 512- | 2815 527+ | 7 7866- | 2760 835- | 4729 185+ | 9 2555+ |
| a_3 | 358 212+ | 501 474+ | 2 6992+ | 57 493- | 285 764- | 3695- |
| a_4 | 21 438- | 31 007- | 1215- | 39 838+ | 7 920- | 116+ |
| a_5 | 2 644- | 994+ | | 1 484- | 1 385+ | |
| February 4 | | | February 12 | | | |
| a_0 | 196-7342 760+ | 12-7964 885- | 0-9766 1148+ | 302-2884 914+ | 19-2571 592- | 0-8998 4183+ |
| a_1 | 13-0975 266+ | 5-3011 713- | 0-0159 9407- | 11-9617 791+ | 3-5426 602+ | 0-0016 8904- |
| a_2 | 514 013+ | 4143 894+ | 4308- | 2709 214- | 3838 217+ | 8 2213+ |
| a_3 | 246 454+ | 387 110+ | 2 1948+ | 86 686+ | 303 989- | 3212- |
| a_4 | 34 901- | 25 735- | 1620- | 31 845+ | 1 007- | 255+ |
| a_5 | 1 977- | 498+ | | 1 983- | 708+ | |
| February 5 | | | February 13 | | | |
| a_0 | 209-9041 615+ | 17-6470 830- | 0-9607 7761+ | 313-9910 039+ | 15-3611 062- | 0-8989 4536+ |
| a_1 | 13-2593 181+ | 4-3663 054- | 0-0154 8663- | 11-4576 893+ | 4-2190 571+ | 0-0001 3092- |
| a_2 | 1024 100+ | 5155 795+ | 5 1832+ | 2277 963- | 2927 265+ | 7 4132+ |
| a_3 | 88 027+ | 288 690+ | 1 5361+ | 194 440+ | 301 286- | 2172- |
| a_4 | 45 382- | 23 247- | 1566- | 21 641+ | 2 439+ | 334+ |
| a_5 | 384- | 320- | | 1 582- | 120+ | |
| February 6 | | | February 14 | | | |
| a_0 | 223-2701 157+ | 21-4712 966- | 0-9459 4725+ | 325-2423 467+ | 10-8791 953- | 0-8995 3738+ |
| a_1 | 13-4722 046+ | 3-2579 985- | 0-0140 5185- | 11-0682 947+ | 4-7151 595+ | 0-0012 9993+ |
| a_2 | 1011 980+ | 5879 147+ | 8 8603+ | 1580 633- | 2039 228+ | 6 9624+ |
| a_3 | 95 733- | 192 283+ | 9053+ | 265 540+ | 290 574- | 813- |
| a_4 | 47 726- | 25 129- | 1283- | 13 683+ | 2 956+ | 345+ |
| a_5 | 2 419+ | 724- | | 975- | 310- | |
| February 7 | | | February 15 | | | |
| a_0 | 236-8294 142+ | 24-1247 374- | 0-9328 5913+ | 336-1804 029+ | 5-9889 058- | 0-9015 2888+ |
| a_1 | 13-6280 027+ | 2-0348 973- | 0-0120 5951- | 10-8368 161+ | 5-0368 598+ | 0-0026 8187+ |
| a_2 | 462 664+ | 6297 934+ | 10 8175+ | 711 663- | 1182 127+ | 6 9240+ |
| a_3 | 260 922- | 84 792+ | 3919+ | 310 762+ | 282 035- | 593+ |
| a_4 | 35 219- | 29 097- | 933- | 8 894+ | 1 348+ | 283+ |
| a_5 | 5 122+ | 260- | | 567- | 626- | |
| February 8 | | | February 16 | | | |
| a_0 | 250-4745 814+ | 25-5242 978- | 0-9219 1124+ | 346-9779 617+ | 0-8619 646- | 0-9049 1191+ |
| a_1 | 13-6307 325+ | 0-7616 406- | 0-0098 1574- | 10-7909 861+ | 5-1889 005+ | 0-0040 9581+ |
| a_2 | 480 050- | 6375 112+ | 11 4439+ | 268 330+ | 337 834+ | 7 2678+ |
| a_3 | 350 277- | 33 596- | 200+ | 340 661+ | 283 042- | 1750+ |
| a_4 | 8 494- | 30 496- | 600- | 6 204+ | 1 844- | 148+ |
| a_5 | 5 649+ | 814+ | | 582- | 866- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|-------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| February 17 | | | | | | |
| a_0 | 357.8304 091+ | 4.3321 441+ | 0.9097 5348+ | 105.9116 392+ | 23.1398 656+ | 1.0010 4323+ |
| a_1 | 10.9490 402+ | 5.1703 840+ | 0.0056 0781+ | 15.5216 419+ | 2.8769 232- | 0.0124 2152+ |
| a_2 | 1321 741+ | 531 035- | 7 8753+ | 1266 661- | 7968 886- | 12 0512- |
| a_3 | 359 304+ | 299 133- | 2364+ | 585 209- | 279 359+ | 2 5518- |
| a_4 | 3 516+ | 6 280- | 57- | 70 800+ | 78 360+ | 557+ |
| a_5 | 1 209- | 980- | | 4 159+ | 4 269- | |
| February 18 | | | | | | |
| a_0 | 8.9477 846+ | 9.4187 853+ | 0.9161 7188+ | 121.2555 899+ | 19.5013 987+ | 1.0120 1002+ |
| a_1 | 11.3219 801+ | 4.9714 353+ | 0.0072 5152+ | 15.1231 378+ | 4.3576 849- | 0.0092 6800+ |
| a_2 | 2408 695+ | 1475 953- | 8 5420+ | 2556 181- | 6703 494- | 19 3264- |
| a_3 | 360 484+ | 333 918- | 2156+ | 264 978- | 549 263+ | 2 3296- |
| a_4 | 2 251- | 11 401- | 324- | 89 647+ | 55 917+ | 2066+ |
| a_5 | 2 596- | 764- | | 3 828- | 5 672- | |
| February 19 | | | | | | |
| a_0 | 20.5461 979+ | 14.2080 169+ | 0.9242 9592+ | 136.1051 936+ | 14.5333 152+ | 1.0191 3309+ |
| a_1 | 11.9096 637+ | 4.5711 279+ | 0.0090 1164+ | 14.5663 497+ | 5.5140 735- | 0.0047 8661+ |
| a_2 | 3450 673+ | 2553 817- | 8 9842+ | 2851 836- | 4776 992- | 25 0399- |
| a_3 | 324 397+ | 386 615- | 873+ | 53 670+ | 716 545+ | 1 4807- |
| a_4 | 15 201- | 15 623- | 644- | 68 385+ | 27 071+ | 3234+ |
| a_5 | 4 550- | 164+ | | 6 497- | 5 056- | |
| February 20 | | | | | | |
| a_0 | 32.8313 935+ | 18.4835 556+ | 0.9342 0827+ | 150.3979 155+ | 8.6153 984+ | 1.0212 9998+ |
| a_1 | 12.6887 608+ | 3.9382 148+ | 0.0108 0890+ | 14.0361 899+ | 6.2462 068- | 0.0005 3604- |
| a_2 | 4287 019+ | 3805 838- | 8 8486+ | 2345 609- | 2515 503- | 27 5353- |
| a_3 | 217 457+ | 446 307- | 1702- | 262 566+ | 775 059+ | 1507- |
| a_4 | 38 819- | 15 289- | 993- | 35 134+ | 1 689+ | 3446+ |
| a_5 | 5 753- | 2 171+ | | 5 750- | 3 704- | |
| February 21 | | | | | | |
| a_0 | 45.9661 446+ | 21.9952 441+ | 0.9458 7507+ | 164.2287 394+ | 2.1949 459+ | 1.0180 2980+ |
| a_1 | 13.5930 006+ | 3.0381 281+ | 0.0124 8782+ | 13.6570 178+ | 6.5179 640- | 0.0059 5029- |
| a_2 | 4648 615+ | 5214 793- | 7 7323+ | 1404 620- | 217 209- | 25 9459- |
| a_3 | 6 148+ | 484 194- | 5698- | 346 331+ | 745 627+ | 1 2577+ |
| a_4 | 69 795- | 4 503- | 1314- | 6 402+ | 16 747- | 2580+ |
| a_5 | 3 303- | 4 924+ | | 4 411- | 2 254- | |
| February 22 | | | | | | |
| a_0 | 60.0173 117+ | 24.4635 157+ | 0.9590 6601+ | 177.7801 274+ | 4.2720 765- | 1.0096 3647+ |
| a_1 | 14.4950 074+ | 1.8505 741+ | 0.0138 1075+ | 13.4803 494+ | 6.3455 425- | 0.0106 5892- |
| a_2 | 4214 974+ | 6645 004- | 5 2294+ | 371 327- | 1896 683+ | 20 6699- |
| a_3 | 301 582- | 452 081- | 1 1025- | 328 391+ | 656 756+ | 2 2978+ |
| a_4 | 88 258- | 21 119+ | 1489- | 15 600- | 27 781- | 1107+ |
| a_5 | 4 578+ | 6 559+ | | 3 488- | 1 103- | |
| February 23 | | | | | | |
| a_0 | 74.8952 903+ | 25.6071 492+ | 0.9732 7455+ | 191.2542 745+ | 10.3651 635- | 0.9971 5140+ |
| a_1 | 15.2145 227+ | 0.3976 743+ | 0.0144 6624+ | 13.4966 187+ | 5.7808 423- | 0.0140 5935- |
| a_2 | 2826 703+ | 7808 702- | 1 0333+ | 485 317+ | 3689 278+ | 13 1554- |
| a_3 | 604 251- | 303 077- | 1 7120- | 231 743+ | 534 932+ | 2 7291+ |
| a_4 | 63 632- | 55 560+ | 1340- | 33 334- | 33 025- | 292- |
| a_5 | 12 923+ | 4 720+ | | 2 492- | 529- | |
| February 24 | | | | | | |
| a_0 | 90.3269 875+ | 25.1996 737+ | 0.9876 5954+ | 204.8190 166+ | 15.7269 402- | 0.9820 4650+ |
| a_1 | 15.5795 969+ | 1.2304 104- | 0.0141 0562+ | 13.6486 277+ | 4.8959 811- | 0.0158 8348- |
| a_2 | 762 019+ | 8337 288- | 4 8855- | 955 521+ | 5090 658+ | 5 1713- |
| a_3 | 729 650- | 36 333- | 2 2666- | 74 688+ | 397 645+ | 2 5933+ |
| a_4 | 5 436+ | 79 728+ | 673- | 46 418- | 35 567- | 1189- |
| a_5 | 12 742+ | 83- | | 462- | 387- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|----------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| March 5 | | | | | | |
| a_0 | 218.5659 771 + | 20.0776 863 - | 0.9658 9333 + | 322.2798 043 + | 12.0579 883 - | 0.9004 4693 + |
| a_1 | 13.8433 437 + | 3.7729 758 - | 0.0161 8739 - | 11.1645 649 + | 4.5638 518 + | 0.0011 1909 + |
| a_2 | 896 393 + | 6066 303 + | 1 8845 + | 1645 751 - | 2307 143 + | 9 2165 + |
| a_3 | 113 766 - | 251 680 + | 2 1018 + | 268 675 + | 276 324 - | 5298 - |
| a_4 | 49 100 - | 37 657 - | 1527 - | 11 644 + | 1 446 + | 94 + |
| a_5 | 2 755 + | 117 - | | 998 - | 543 - | |
| March 6 | | | | | | |
| a_0 | 232.4829 491 + | 23.2226 414 - | 0.9500 8930 + | 333.3077 261 + | 7.2909 643 - | 0.9024 3563 + |
| a_1 | 13.9702 333 + | 2.4993 321 - | 0.0152 4106 - | 10.9201 759 + | 4.9426 900 + | 0.0028 0721 + |
| a_2 | 288 122 + | 6594 196 + | 7 2754 + | 779 842 - | 1481 402 + | 7 6874 + |
| a_3 | 281 027 - | 100 340 + | 1 4820 + | 305 504 + | 276 027 - | 4912 - |
| a_4 | 34 735 - | 38 451 - | 1473 - | 6 734 + | 1 352 - | 223 + |
| a_5 | 5 584 + | 690 + | | 615 - | 652 - | |
| March 7 | | | | | | |
| a_0 | 246.4509 768 + | 25.0562 959 - | 0.9357 0927 + | 344.1810 802 + | 2.2279 371 - | 0.9059 6470 + |
| a_1 | 13.9324 478 + | 1.1654 250 - | 0.0134 0029 - | 10.8582 449 + | 5.1552 955 + | 0.0042 0628 + |
| a_2 | 707 359 - | 6671 423 + | 10 8454 + | 170 941 + | 638 677 + | 6 3504 + |
| a_3 | 363 991 - | 45 971 - | 8897 + | 326 286 + | 287 946 - | 4002 - |
| a_4 | 5 563 - | 34 939 - | 1228 - | 3 807 + | 4 674 - | 309 + |
| a_5 | 5 827 + | 1 736 + | | 646 - | 647 - | |
| March 8 | | | | | | |
| a_0 | 260.2763 159 + | 25.5624 959 - | 0.9234 7021 + | 355.0893 639 + | 2.9618 993 + | 0.9107 6909 + |
| a_1 | 13.6824 640 + | 0.1419 615 + | 0.0110 1344 - | 10.9915 178 + | 5.1944 538 + | 0.0053 6869 + |
| a_2 | 1774 347 - | 6341 286 + | 12 7865 + | 1166 195 + | 259 698 - | 5 3360 + |
| a_3 | 329 391 - | 168 060 - | 3983 + | 334 720 + | 313 042 - | 2741 - |
| a_4 | 24 298 + | 25 928 - | 936 - | 763 + | 7 996 - | 329 + |
| a_5 | 3 294 + | 2 275 + | | 1 201 - | 521 - | |
| March 9 | | | | | | |
| a_0 | 273.7511 652 + | 24.8055 771 - | 0.9137 6588 + | 6.2309 294 + | 8.0982 274 + | 0.9166 4726 + |
| a_1 | 13.2401 395 + | 1.3505 666 + | 0.0083 7410 - | 11.3248 762 + | 5.0451 433 + | 0.0063 6682 + |
| a_2 | 2583 853 - | 5704 330 + | 13 4281 + | 2162 936 + | 1252 035 - | 4 7089 + |
| a_3 | 201 074 - | 249 190 - | 250 + | 325 093 + | 350 018 - | 1397 - |
| a_4 | 40 451 + | 14 248 - | 665 - | 5 082 - | 10 763 - | 264 + |
| a_5 | 110 + | 1 970 + | | 2 324 - | 149 - | |
| March 10 | | | | | | |
| a_0 | 286.7168 680 + | 22.9107 242 - | 0.9067 3044 + | 17.8038 677 + | 12.9820 743 + | 0.9234 7364 + |
| a_1 | 12.6792 797 + | 2.4119 606 + | 0.0057 0758 - | 11.8517 947 + | 4.6853 525 + | 0.0072 7727 + |
| a_2 | 2943 394 - | 4890 984 + | 13 1114 + | 3084 455 + | 2368 196 - | 4 4433 + |
| a_3 | 39 274 - | 286 943 - | 2397 - | 280 713 + | 394 068 - | 312 - |
| a_4 | 40 226 + | 4 313 - | 433 - | 16 804 - | 11 773 - | 106 + |
| a_5 | 1 789 - | 1 150 + | | 3 732 - | 693 + | |
| March 11 | | | | | | |
| a_0 | 299.1017 246 + | 20.0386 759 - | 0.9023 0570 + | 29.9901 256 + | 17.3900 924 + | 0.9311 9319 + |
| a_1 | 12.0940 140 + | 3.3029 231 + | 0.0031 7454 - | 12.5443 113 + | 4.0891 320 + | 0.0081 6085 + |
| a_2 | 2837 843 - | 4015 759 + | 12 1385 + | 3788 324 + | 3614 147 - | 4 4061 + |
| a_3 | 103 528 + | 293 171 - | 4121 - | 175 903 + | 433 386 - | 138 + |
| a_4 | 30 710 + | 1 347 + | 236 - | 36 253 - | 8 568 - | 135 - |
| a_5 | 2 131 - | 321 + | | 4 308 - | 2 151 + | |
| March 12 | | | | | | |
| a_0 | 310.9251 650 + | 16.3633 272 - | 0.9003 0144 + | 42.9268 034 + | 21.0738 294 + | 0.9397 9468 + |
| a_1 | 11.5687 227 + | 4.0188 222 + | 0.0008 7991 - | 13.3380 943 + | 3.2339 371 + | 0.0090 4080 + |
| a_2 | 2364 355 - | 3147 512 + | 10 7661 + | 4055 189 + | 4944 189 - | 4 3569 + |
| a_3 | 205 329 + | 284 907 - | 5058 - | 10 812 - | 445 188 - | 391 - |
| a_4 | 19 825 + | 2 809 + | 62 - | 59 410 - | 2 271 + | 436 - |
| a_5 | 1 632 - | 248 - | | 2 032 - | 3 844 + | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|----------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| March 21 | | | | | | |
| a_0 | 56.6631 912+ | 23.7694 403+ | 0.9492 6290+ | 171.7306 754+ | 1.3989 494- | 1.0085 3438+ |
| a_1 | 14.1211 153+ | 2.1143 740+ | 0.0098 8303+ | 13.4235 218+ | 6.3547 514- | 0.0034 6662- |
| a_2 | 3645 784+ | 6227 584- | 3 9686+ | 31 232- | 594 073+ | 21 9768- |
| a_3 | 265 376- | 397 313- | 2140- | 337 472+ | 679 743+ | 2199+ |
| a_4 | 70 819- | 22 221+ | 748- | 9 470- | 5 405- | 2503+ |
| a_5 | 3 950+ | 4 517+ | | 4 056- | 2 406- | |
| March 22 | | | | | | |
| a_0 | 71.1156 605+ | 25.2239 985+ | 0.9595 1392+ | 185.1834 687+ | 7.6271 003- | 1.0029 1709+ |
| a_1 | 14.7443 135+ | 0.7608 085+ | 0.0105 8263+ | 13.5127 019+ | 6.0353 788- | 0.0076 9579- |
| a_2 | 2464 414+ | 7240 887- | 2 8702+ | 883 743+ | 2576 814+ | 19 8363- |
| a_3 | 505 820- | 264 166- | 5168- | 259 297+ | 634 003+ | 1 2398+ |
| a_4 | 49 826- | 45 780+ | 998- | 30 107- | 17 463- | 1814+ |
| a_5 | 9 976+ | 2 937+ | | 3 643- | 2 525- | |
| March 23 | | | | | | |
| a_0 | 86.0518 485+ | 25.2391 734+ | 0.9703 2191+ | 198.8070 996+ | 13.3433 962- | 0.9933 7979+ |
| a_1 | 15.0705 081+ | 0.7468 418- | 0.0109 6166+ | 13.7533 775+ | 5.3380 627- | 0.0112 1851- |
| a_2 | 748 187+ | 7729 307- | 7187+ | 1444 417+ | 4348 776+ | 15 0607- |
| a_3 | 605 306- | 53 449- | 9236- | 103 516+ | 539 003+ | 1 9701+ |
| a_4 | 3 110+ | 60 662+ | 1077- | 49 232- | 30 236- | 756+ |
| a_5 | 10 078+ | 216- | | 1 815- | 2 376- | |
| March 24 | | | | | | |
| a_0 | 101.1379 635+ | 23.7201 006+ | 0.9812 5231+ | 212.7101 657+ | 18.1959 421- | 0.9808 5977+ |
| a_1 | 15.0448 301+ | 2.2845 839- | 0.0107 8518+ | 14.0527 198+ | 4.3198 876- | 0.0136 0943- |
| a_2 | 948 103- | 7527 946- | 2 6913- | 1441 289+ | 5760 570+ | 8 7276- |
| a_3 | 495 394- | 185 661+ | 1 3661- | 109 287- | 394 795+ | 2 2647+ |
| a_4 | 54 863+ | 58 867+ | 856- | 59 161- | 42 455- | 240- |
| a_5 | 4 089+ | 2 621- | | 2 153+ | 1 557- | |
| March 25 | | | | | | |
| a_0 | 116.0443 391+ | 20.7069 127+ | 0.9916 2320+ | 226.8903 850+ | 21.9046 945- | 0.9666 0166+ |
| a_1 | 14.7305 744+ | 3.7122 393- | 0.0098 0279+ | 14.2856 085+ | 3.0670 937- | 0.0146 8519- |
| a_2 | 2064 385- | 6644 069- | 7 2837- | 780 052+ | 6674 607+ | 2 0979- |
| a_3 | 238 584- | 394 589+ | 1 7215- | 321 919- | 210 422+ | 2 1561+ |
| a_4 | 74 155+ | 45 084+ | 239- | 47 931- | 50 577- | 900- |
| a_5 | 2 143- | 3 127- | | 6 544+ | 217+ | |
| March 26 | | | | | | |
| a_0 | 130.5518 178+ | 16.3739 211+ | 1.0005 2309+ | 241.2176 681+ | 24.2883 214- | 0.9519 1329+ |
| a_1 | 14.2747 094+ | 4.9062 061- | 0.0078 2000+ | 14.3291 441+ | 1.6891 659- | 0.0144 9399- |
| a_2 | 2356 875- | 5221 086- | 12 5617- | 407 601- | 7004 595+ | 3 8215+ |
| a_3 | 34 982+ | 543 921+ | 1 8254- | 447 493- | 11 477+ | 1 7851+ |
| a_4 | 61 872+ | 29 339+ | 728+ | 13 403- | 49 371- | 1182- |
| a_5 | 4 872- | 2 606- | | 7 795+ | 2 337+ | |
| March 27 | | | | | | |
| a_0 | 144.6000 379+ | 11.0026 719+ | 1.0069 1167+ | 255.4607 420+ | 25.2805 835- | 0.9379 6814+ |
| a_1 | 13.8361 416+ | 5.7768 139- | 0.0047 8920+ | 14.1119 087+ | 0.3033 823- | 0.0132 4146- |
| a_2 | 1929 531- | 3439 316- | 17 5686- | 1752 373- | 6766 260+ | 8 4675+ |
| a_3 | 233 655+ | 635 447+ | 1 5303- | 424 848- | 161 969- | 1 3058+ |
| a_4 | 36 823+ | 16 506+ | 1780+ | 26 879+ | 37 072- | 1186- |
| a_5 | 4 925- | 2 204- | | 4 731+ | 3 505+ | |
| March 28 | | | | | | |
| a_0 | 158.2697 817+ | 4.9469 013+ | 1.0098 0878+ | 269.3580 896+ | 24.9268 934- | 0.9256 9216+ |
| a_1 | 13.5325 994+ | 6.2685 426- | 0.0008 8769+ | 13.6470 918+ | 0.9882 024+ | 0.0112 0366- |
| a_2 | 1056 891- | 1455 950- | 21 0697- | 2818 385- | 6093 056+ | 11 6777+ |
| a_3 | 331 994+ | 679 441+ | 8001- | 272 536- | 275 408- | 8288+ |
| a_4 | 12 180+ | 5 647+ | 2488+ | 50 227+ | 18 973- | 1046- |
| a_5 | 4 340- | 2 219- | | 258+ | 3 119+ | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|----------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| April 6 | | | | | | |
| a_0 | 282.7011 378+ | 23.3585 115- | 0.9157 2869+ | 14.5288 017+ | 11.6245 035+ | 0.9260 3339+ |
| a_1 | 13.0218 707+ | 2.1181 602+ | 0.0086 6132- | 11.8328 406+ | 4.8119 281+ | 0.0079 8748+ |
| a_2 | 3332 218- | 5184 209+ | 13 5421+ | 3098 697+ | 2006 406- | 2 8236+ |
| a_3 | 70 622- | 320 857- | 4102+ | 291 855+ | 407 944- | 6868- |
| a_4 | 50 428+ | 3 212- | 865- | 18 267- | 15 868- | 348+ |
| a_5 | 2 456- | 1 790+ | | 3 955- | 1 020+ | |
| April 7 | | | | | | |
| a_0 | 295.3875 216+ | 20.7541 583- | 0.9084 5396+ | 26.6984 754+ | 16.1935 118+ | 0.9342 3803+ |
| a_1 | 12.3531 828+ | 3.0583 536+ | 0.0058 6442- | 12.5308 521+ | 4.2824 286+ | 0.0083 6011+ |
| a_2 | 3266 205- | 4220 245+ | 14 2592+ | 3824 978+ | 3315 279- | 9744+ |
| a_3 | 106 247+ | 316 580- | 651+ | 178 913+ | 460 218- | 5443- |
| a_4 | 37 341+ | 5 596+ | 694- | 38 896- | 10 981- | 421+ |
| a_5 | 2 884- | 439+ | | 4 564- | 2 773+ | |
| April 8 | | | | | | |
| a_0 | 307.4281 543+ | 17.3048 347- | 0.9040 1502+ | 39.6253 705+ | 20.0975 698+ | 0.9426 4536+ |
| a_1 | 11.7453 110+ | 3.8098 854+ | 0.0030 2083- | 13.3316 842+ | 3.4783 034+ | 0.0084 0855+ |
| a_2 | 2752 311- | 3308 436+ | 14 0424+ | 4082 429+ | 4734 056- | 4072- |
| a_3 | 227 186+ | 290 340- | 2119- | 20 806- | 475 436- | 3719- |
| a_4 | 22 633+ | 7 571+ | 550- | 63 516- | 3 113+ | 382+ |
| a_5 | 2 128- | 477- | | 2 032- | 4 519+ | |
| April 9 | | | | | | |
| a_0 | 318.9230 033+ | 13.1924 302- | 0.9023 7175+ | 53.3566 622+ | 23.0556 873+ | 0.9509 7981+ |
| a_1 | 11.2709 946+ | 4.3872 600+ | 0.0002 9790- | 14.1155 132+ | 2.3923 665+ | 0.0082 3081+ |
| a_2 | 1956 247- | 2478 043+ | 13 0808+ | 3618 399+ | 6096 359- | 1 2990- |
| a_3 | 296 950+ | 265 100- | 4316- | 291 482- | 417 692- | 2157- |
| a_4 | 12 006+ | 5 008+ | 423- | 74 984- | 26 658+ | 220+ |
| a_5 | 1 226- | 944- | | 4 500+ | 4 761+ | |
| April 10 | | | | | | |
| a_0 | 330.0291 462+ | 8.5834 695- | 0.9033 3453+ | 67.7978 187+ | 24.7997 907+ | 0.9590 6135+ |
| a_1 | 10.9730 203+ | 4.8048 694+ | 0.0021 7184+ | 14.7240 119+ | 1.0608 283+ | 0.0079 1514+ |
| a_2 | 1005 606- | 1703 324+ | 11 5362+ | 2339 260+ | 7141 725- | 1 8215- |
| a_3 | 333 048+ | 254 602- | 6011- | 542 926- | 264 832- | 1254- |
| a_4 | 6 002+ | 158+ | 294- | 50 972- | 51 513+ | 32- |
| a_5 | 674- | 1 103- | | 10 825+ | 2 337+ | |
| April 11 | | | | | | |
| a_0 | 340.9354 435+ | 3.6338 224- | 0.9065 9695+ | 82.6974 493+ | 25.1253 484+ | 0.9667 8147+ |
| a_1 | 10.8738 772+ | 5.0686 654+ | 0.0042 8699+ | 15.0140 095+ | 0.4251 964- | 0.0075 1192+ |
| a_2 | 22 827+ | 929 420+ | 9 5612+ | 513 368+ | 7603 769- | 2 2256- |
| a_3 | 350 346+ | 264 957- | 7194- | 638 753- | 37 538- | 1387- |
| a_4 | 2 809+ | 5 458- | 146- | 6 486+ | 63 164+ | 311- |
| a_5 | 641- | 1 047- | | 10 489+ | 1 468- | |
| April 12 | | | | | | |
| a_0 | 351.8468 548+ | 1.5006 387+ | 0.9117 6666+ | 97.7006 177+ | 23.9421 909+ | 0.9740 5386+ |
| a_1 | 10.9843 488+ | 5.1723 559+ | 0.0059 7756+ | 14.9328 883+ | 1.9326 824- | 0.0070 1275+ |
| a_2 | 1084 331+ | 91 310+ | 7 3206+ | 1258 920- | 7352 227- | 2 8348- |
| a_3 | 354 837+ | 297 091- | 7785- | 511 603- | 199 132+ | 2665- |
| a_4 | 182- | 10 820- | 24+ | 60 180+ | 54 763+ | 527- |
| a_5 | 1 215- | 769- | | 3 846+ | 3 757- | |
| April 13 | | | | | | |
| a_0 | 2.9749 807+ | 6.6512 575+ | 0.9183 9867+ | 112.4628 562+ | 21.2992 996+ | 0.9807 5121+ |
| a_1 | 11.3069 842+ | 5.0967 785+ | 0.0072 0909+ | 14.5536 112+ | 3.3233 612- | 0.0063 4473+ |
| a_2 | 2135 615+ | 872 612- | 5 0049+ | 2394 400- | 6463 947- | 3 9522- |
| a_3 | 341 240+ | 347 704- | 7687- | 236 051- | 380 745+ | 4836- |
| a_4 | 6 063- | 14 864- | 201+ | 77 998+ | 35 109+ | 588- |
| a_5 | 2 424- | 145- | | 2 529- | 3 456- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|----------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| April 22 | | | | | | |
| a_0 | 126.7609 693+ | 17.3707 835+ | 0.9866 4648+ | 235.4301 953+ | 23.3486 948- | 0.9604 4172+ |
| a_1 | 14.0338 481+ | 4.4896 097- | 0.0053 8564+ | 14.4732 706+ | 2.2285 925- | 0.0120 1105- |
| a_2 | 2660 100- | 5145 628- | 5 7504- | 542 963+ | 6960 817+ | 3 8310- |
| a_3 | 49 205+ | 487 482+ | 7267- | 480 016- | 145 314+ | 1 6408+ |
| a_4 | 63 688+ | 17 727+ | 420- | 38 993- | 57 403- | 97- |
| a_5 | 4 944- | 1 907- | | 9 462+ | 745+ | |
| April 23 | | | | | | |
| a_0 | 140.5396 023+ | 12.4169 413+ | 0.9913 8020+ | 249.9068 075+ | 24.8723 400- | 0.9482 1068+ |
| a_1 | 13.5395 929+ | 5.3663 517- | 0.0040 0069+ | 14.4269 903+ | 0.8154 204- | 0.0122 8891- |
| a_2 | 2179 907- | 3595 831- | 8 1699- | 1036 085- | 7059 871+ | 1 0201+ |
| a_3 | 254 650+ | 540 021+ | 9021- | 542 121- | 75 234- | 1 5959+ |
| a_4 | 38 304+ | 8 551+ | 6- | 10 763+ | 53 135- | 525- |
| a_5 | 4 625- | 680- | | 8 070+ | 3 603+ | |
| April 24 | | | | | | |
| a_0 | 153.8900 374+ | 6.7457 957+ | 0.9944 7364+ | 264.1778 605+ | 24.9942 499- | 0.9361 7812+ |
| a_1 | 13.1930 163+ | 5.9204 307- | 0.0020 9582+ | 14.0654 713+ | 0.5545 321+ | 0.0116 2716- |
| a_2 | 1232 382- | 1931 194- | 10 8620- | 2517 090- | 6551 531+ | 5 4853+ |
| a_3 | 362 047+ | 567 595+ | 9078- | 421 452- | 251 258- | 1 3797+ |
| a_4 | 15 266+ | 5 573+ | 578+ | 51 707+ | 34 131- | 757- |
| a_5 | 3 861- | 385- | | 2 534+ | 4 428+ | |
| April 25 | | | | | | |
| a_0 | 166.9971 608+ | 0.6895 238+ | 0.9953 9825+ | 277.9549 017+ | 23.8126 608- | 0.9252 2988+ |
| a_1 | 13.0593 300+ | 6.1343 552- | 0.0003 2580- | 13.4575 624+ | 1.7780 210+ | 0.0101 4652- |
| a_2 | 93 231- | 198 776- | 13 2212- | 3446 046- | 5637 327+ | 9 1676+ |
| a_3 | 384 568+ | 585 709+ | 6730- | 191 969- | 344 161- | 1 0726+ |
| a_4 | 3 784- | 3 963+ | 1155+ | 63 144+ | 11 431- | 829- |
| a_5 | 3 766- | 944- | | 2 160- | 3 235+ | |
| April 26 | | | | | | |
| a_0 | 180.0848 695+ | 5.4058 362- | 0.9936 9458+ | 291.0547 609+ | 21.5061 428- | 0.9160 9909+ |
| a_1 | 13.1526 572+ | 5.9972 858- | 0.0031 2570- | 12.7349 381+ | 2.7992 810+ | 0.0080 2440- |
| a_2 | 1000 087+ | 1572 716+ | 14 5368- | 3664 887- | 4568 604+ | 11 8885+ |
| a_3 | 331 590+ | 591 495+ | 2007- | 38 090+ | 358 588- | 7390+ |
| a_4 | 22 680- | 596- | 1504+ | 51 046+ | 4 722+ | 808- |
| a_5 | 4 138- | 2 032- | | 3 676- | 1 383+ | |
| April 27 | | | | | | |
| a_0 | 193.3680 126+ | 11.1869 638- | 0.9891 1018+ | 303.4317 564+ | 18.2852 498- | 0.9093 2937+ |
| a_1 | 13.4410 116+ | 5.5065 500- | 0.0060 3304- | 12.0319 690+ | 3.6080 038+ | 0.0054 5730- |
| a_2 | 1817 273+ | 3323 294+ | 14 2375- | 3281 191- | 3534 955+ | 13 6227+ |
| a_3 | 199 828+ | 568 148+ | 4138+ | 205 865+ | 326 731- | 4157+ |
| a_4 | 44 168- | 10 844- | 1475+ | 32 088+ | 11 365+ | 753- |
| a_5 | 3 633- | 3 174- | | 3 010- | 91- | |
| April 28 | | | | | | |
| a_0 | 207.0059 542+ | 16.3057 714- | 0.9817 0950+ | 315.1591 005+ | 14.3552 962- | 0.9052 6838+ |
| a_1 | 13.8449 351+ | 4.6773 717- | 0.0086 9737- | 11.4488 217+ | 4.2214 749+ | 0.0026 3816- |
| a_2 | 2115 216+ | 4930 866+ | 12 1234- | 2501 185- | 2622 001+ | 14 4197+ |
| a_3 | 11 342- | 492 844+ | 1 0134+ | 304 817+ | 282 689- | 1151+ |
| a_4 | 63 711- | 27 210- | 1081+ | 16 991+ | 10 659+ | 702- |
| a_5 | 479- | 3 558- | | 1 780- | 950- | |
| April 29 | | | | | | |
| a_0 | 221.0548 578+ | 20.4438 490- | 0.9719 1194+ | 326.3898 064+ | 9.8989 192- | 0.9040 7668+ |
| a_1 | 14.2388 585+ | 3.5560 069- | 0.0107 7474- | 11.0459 370+ | 4.6648 565+ | 0.0002 5223+ |
| a_2 | 1694 045+ | 6210 444+ | 8 4525- | 1502 578- | 1828 360+ | 14 3449+ |
| a_3 | 267 786- | 349 205+ | 1 4490+ | 355 506+ | 249 798- | 1653- |
| a_4 | 66 685- | 45 799- | 488+ | 8 247+ | 5 747+ | 667- |
| a_5 | 5 216+ | 2 239- | | 866- | 1 359- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|-------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| | May 8 | | | May 16 | | |
| a_0 | 337.3217 744+ | 5.0757 677- | 0.9057 4020+ | 78.6669 410+ | 25.0495 414+ | 0.9731 7423+ |
| a_1 | 10.8549 396+ | 4.9572 081+ | 0.0030 4495+ | 15.2698 996+ | 0.0575 462- | 0.0072 7942+ |
| a_2 | 395 210- | 1099 833+ | 13 4500+ | 968 060+ | 7823 359- | 8 4176- |
| a_3 | 380 018+ | 240 487- | 4322- | 750 535- | 97 783- | 3698- |
| a_4 | 4 130+ | 1 164- | 636- | 11 462- | 76 159+ | 841+ |
| a_5 | 552- | 1 498- | | 14 104+ | 1 097- | |
| | May 9 | | | May 17 | | |
| a_0 | 348.1755 527+ | 0.0328 913- | 0.9100 8057+ | 93.9588 574+ | 24.2073 871+ | 0.9795 8332+ |
| a_1 | 10.8912 788+ | 5.1038 138+ | 0.0055 7984+ | 15.2408 100+ | 1.6216 425- | 0.0055 1862+ |
| a_2 | 764 137+ | 356 379+ | 11 7735+ | 1210 911- | 7670 921- | 9 0304- |
| a_3 | 390 787+ | 260 068- | 6880- | 659 498- | 193 538+ | 281- |
| a_4 | 1 625+ | 8 793- | 581- | 61 659+ | 69 277+ | 585+ |
| a_5 | 951- | 1 405- | | 6 486+ | 5 247- | |
| | May 10 | | | May 18 | | |
| a_0 | 359.1823 912+ | 5.0795 339+ | 0.9167 6315+ | 109.0194 411+ | 21.8444 093+ | 0.9842 0193+ |
| a_1 | 11.1615 152+ | 5.0928 501+ | 0.0077 0489+ | 14.8286 754+ | 3.0726 784- | 0.0037 2751+ |
| a_2 | 1936 771+ | 490 672- | 9 3646+ | 2754 817- | 6727 335- | 8 7749- |
| a_3 | 387 065+ | 309 003- | 9230- | 352 994- | 418 000+ | 2074+ |
| a_4 | 2 836- | 16 054- | 464- | 92 539+ | 41 520+ | 220+ |
| a_5 | 2 173- | 926- | | 2 371- | 5 455- | |
| | May 11 | | | May 19 | | |
| a_0 | 10.5757 891+ | 10.0907 184+ | 0.9253 0756+ | 123.5463 522+ | 18.1444 039+ | 0.9870 7488+ |
| a_1 | 11.6627 657+ | 4.8951 317+ | 0.0092 8231+ | 14.2076 396+ | 4.2788 625- | 0.0020 4352+ |
| a_2 | 3059 225+ | 1523 323- | 6 3235+ | 3282 635- | 5278 826- | 8 0315- |
| a_3 | 352 876+ | 381 774- | 1 1121- | 8 704- | 530 786+ | 2925+ |
| a_4 | 13 578- | 21 075- | 255- | 78 281+ | 13 827+ | 124- |
| a_5 | 4 119- | 263+ | | 5 975- | 3 183- | |
| | May 12 | | | May 20 | | |
| a_0 | 22.5779 953+ | 14.7932 593+ | 0.9351 0847+ | 137.4320 884+ | 13.3918 017+ | 0.9883 4325+ |
| a_1 | 12.3729 814+ | 4.4676 391+ | 0.0102 0319+ | 13.5768 264+ | 5.1714 504- | 0.0005 1995+ |
| a_2 | 3995 100+ | 2792 527- | 2 8440+ | 2898 979- | 3635 288- | 7 2352- |
| a_3 | 256 506+ | 462 169- | 1 2166- | 244 907+ | 555 581+ | 2371+ |
| a_4 | 34 786- | 20 191- | 51+ | 47 371+ | 1 739- | 333- |
| a_5 | 5 756- | 2 444+ | | 5 421- | 876- | |
| | May 13 | | | May 21 | | |
| a_0 | 35.3720 831+ | 18.9336 540+ | 0.9454 7491+ | 150.7477 026+ | 7.9121 191+ | 0.9881 6006+ |
| a_1 | 13.2321 626+ | 3.7636 316+ | 0.0104 0904+ | 13.0867 420+ | 5.7329 659- | 0.0008 6932- |
| a_2 | 4498 041+ | 4275 740- | 7642- | 1934 248- | 1987 661- | 6 7242- |
| a_3 | 60 708+ | 516 926- | 1 1966- | 380 996+ | 540 587+ | 974+ |
| a_4 | 65 560- | 7 960- | 408+ | 20 325+ | 5 603- | 347- |
| a_5 | 4 364- | 5 206+ | | 3 952- | 362+ | |
| | May 14 | | | May 22 | | |
| a_0 | 49.0531 282+ | 22.2177 437+ | 0.9556 9197+ | 163.6807 567+ | 2.0339 217+ | 0.9866 2459+ |
| a_1 | 14.1215 854+ | 2.7528 264+ | 0.0099 1359+ | 12.8203 458+ | 5.9703 821- | 0.0021 9885- |
| a_2 | 4242 818+ | 5822 061- | 4 0991- | 708 784- | 395 830- | 6 6349- |
| a_3 | 241 149- | 495 949- | 1 0301- | 423 153+ | 521 861+ | 467- |
| a_4 | 89 749- | 19 164+ | 725+ | 957+ | 3 348- | 173- |
| a_5 | 2 652+ | 6 636+ | | 3 299- | 469+ | |
| | May 15 | | | May 23 | | |
| a_0 | 63.5661 710+ | 24.3413 491+ | 0.9650 9988+ | 176.4723 051+ | 3.9241 452- | 0.9837 5586+ |
| a_1 | 14.8632 414+ | 1.4506 104+ | 0.0088 1376+ | 12.8042 675+ | 5.8940 957- | 0.0035 4677- |
| a_2 | 3007 509+ | 7128 313- | 6 7494- | 533 444+ | 1154 405+ | 6 8696- |
| a_3 | 568 479- | 354 282- | 7339- | 393 812+ | 512 689+ | 1182- |
| a_4 | 75 703- | 54 102+ | 892+ | 15 317- | 651- | 124+ |
| a_5 | 11 958+ | 4 312+ | | 3 638- | 338- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|--------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| May 24 | | | | | | |
| a_0 | 189.3674 028+ | 9.6516 303- | 0.9795 1155+ | 299.1894 128+ | 19.3315 614- | 0.9134 9038+ |
| a_1 | 13.0211 542+ | 5.5098 387- | 0.0049 5118- | 12.3578 102+ | 3.3934 228+ | 0.0066 2187- |
| a_2 | 1586 542+ | 2685 225+ | 7 1402- | 3589 074- | 3890 865+ | 9 6121+ |
| a_3 | 295 977+ | 505 881+ | 673- | 120 546+ | 365 839- | 8403+ |
| a_4 | 33 856- | 2 135- | 439+ | 44 283+ | 8 916+ | 503- |
| a_5 | 4 050- | 1 779- | | 3 653- | 902+ | |
| May 25 | | | | | | |
| a_0 | 202.5730 183+ | 14.8427 499- | 0.9738 4401+ | 311.2044 332+ | 15.5846 543- | 0.9079 0873+ |
| a_1 | 13.4116 899+ | 4.8227 749- | 0.0063 8184- | 11.6920 473+ | 4.0658 598+ | 0.0044 6747- |
| a_2 | 2230 652+ | 4172 244+ | 7 0719- | 2998 321- | 2855 818+ | 11 8290+ |
| a_3 | 120 875+ | 478 713+ | 1128+ | 261 776+ | 321 918- | 6381+ |
| a_4 | 55 298- | 11 186- | 661+ | 25 700+ | 13 145+ | 577- |
| a_5 | 2 725- | 3 260- | | 2 509- | 399- | |
| May 26 | | | | | | |
| a_0 | 216.2140 585+ | 19.2018 737- | 0.9667 7287+ | 322.6251 451+ | 11.2641 297- | 0.9046 8221+ |
| a_1 | 13.8706 059+ | 3.8508 169- | 0.0077 3591- | 11.1799 428+ | 4.5455 061+ | 0.0019 3330- |
| a_2 | 2234 027+ | 5508 566+ | 6 3352- | 2083 878- | 1964 917+ | 13 3955+ |
| a_3 | 124 961- | 401 191+ | 3833+ | 340 192+ | 273 755- | 4074+ |
| a_4 | 70 296- | 28 201- | 716+ | 13 231+ | 10 938+ | 635- |
| a_5 | 1 804+ | 3 621- | | 1 294- | 1 134- | |
| May 27 | | | | | | |
| a_0 | 230.2887 218+ | 22.4648 971- | 0.9584 4893+ | 333.6319 129+ | 6.5485 270- | 0.9041 2286+ |
| a_1 | 14.2527 133+ | 2.6418 353- | 0.0088 5928- | 10.8698 708+ | 4.8601 706+ | 0.0008 4265+ |
| a_2 | 1455 442+ | 6506 589+ | 4 7593- | 996 837- | 1197 916+ | 14 2349+ |
| a_3 | 384 759- | 253 219+ | 6750+ | 380 589+ | 241 566- | 1541+ |
| a_4 | 61 001- | 47 232- | 594+ | 6 967+ | 5 141+ | 701- |
| a_5 | 7 765+ | 1 803- | | 589- | 1 511- | |
| May 28 | | | | | | |
| a_0 | 244.6431 799+ | 24.4356 550- | 0.9491 8715+ | 344.4407 967+ | 1.5923 584- | 0.9063 9739+ |
| a_1 | 14.4078 588+ | 1.2843 422- | 0.0095 8487- | 10.7871 724+ | 5.0285 846+ | 0.0037 0780+ |
| a_2 | 13 157+ | 6964 795+ | 2 3854- | 180 872+ | 488 933+ | 14 2738+ |
| a_3 | 549 869- | 48 153+ | 9154+ | 402 572+ | 236 214- | 1260- |
| a_4 | 19 715- | 56 452- | 348+ | 4 280+ | 2 514- | 784- |
| a_5 | 10 000+ | 1 565+ | | 577- | 1 678- | |
| May 29 | | | | | | |
| a_0 | 258.9963 960+ | 25.0241 911- | 0.9394 5876+ | 355.2866 838+ | 3.4610 788+ | 0.9115 1214+ |
| a_1 | 14.2426 392+ | 0.1012 671+ | 0.0097 7343- | 10.9455 408+ | 5.0536 624+ | 0.0064 9342+ |
| a_2 | 1654 468- | 6786 306+ | 5605+ | 1408 535+ | 251 605- | 13 4231+ |
| a_3 | 530 876- | 160 566- | 1 0545+ | 413 422+ | 263 003- | 4400- |
| a_4 | 32 266+ | 47 807- | 60+ | 1 724+ | 11 070- | 868- |
| a_5 | 6 148+ | 4 111+ | | 1 412- | 1 593- | |
| May 30 | | | | | | |
| a_0 | 273.0243 421+ | 24.2647 197- | 0.9298 4743+ | 6.4144 513+ | 8.4620 141+ | 0.9192 9519+ |
| a_1 | 13.7684 566+ | 1.3932 914+ | 0.0093 4258- | 11.3512 555+ | 4.9192 169+ | 0.0090 1131+ |
| a_2 | 2992 085- | 6059 014+ | 3 7521+ | 2645 061+ | 1123 017- | 11 5811+ |
| a_3 | 343 727- | 310 567- | 1 0767+ | 405 115+ | 322 837- | 7895- |
| a_4 | 62 610+ | 26 283- | 196- | 4 986- | 19 377- | 910- |
| a_5 | 166+ | 4 274+ | | 3 252- | 959- | |
| May 31 | | | | | | |
| a_0 | 286.4654 950+ | 22.2987 844- | 0.9209 8577+ | 18.0699 007+ | 13.2346 119+ | 0.9293 7656+ |
| a_1 | 13.0920 445+ | 2.5035 464+ | 0.0082 7700- | 11.9981 795+ | 4.5895 341+ | 0.0110 5425+ |
| a_2 | 3646 179- | 5012 412+ | 6 8587+ | 3797 961+ | 2217 468- | 8 6689+ |
| a_3 | 93 686- | 373 824- | 9959+ | 351 235+ | 408 937- | 1 1585- |
| a_4 | 61 914+ | 4 542- | 384- | 21 272- | 24 745- | 839- |
| a_5 | 3 316- | 2 720+ | | 5 746- | 748+ | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|----------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| June 9 | | | | | | |
| a_0 | 30-4802 980+ | 17-5591 058+ | 0-9411 7347+ | 147-5321 861+ | 9-1698 416+ | 0-9960 7329+ |
| a_1 | 12-8517 593+ | 4-0138 389+ | 0-0124 0689+ | 13-4064 077+ | 5-7277 887- | 0-0036 5259- |
| a_2 | 4666 364+ | 3585 350- | 4 6984+ | 2752 256- | 2219 549- | 11 2459- |
| a_3 | 208 136+ | 498 656- | 1 5013- | 348 489+ | 610 572+ | 1 1050+ |
| a_4 | 51 357- | 21 541- | 576- | 32 078+ | 14 265- | 69- |
| a_5 | 6 870- | 3 846+ | | 5 043- | 335- | |
| June 10 | | | | | | |
| a_0 | 43-8136 846+ | 21-1627 745+ | 0-9538 9432+ | 160-7009 206+ | 3-2796 952+ | 0-9914 0592+ |
| a_1 | 13-8235 005+ | 3-1404 825+ | 0-0128 7312+ | 12-9708 144+ | 5-9943 990- | 0-0055 7306- |
| a_2 | 4913 480+ | 5172 046- | 1355- | 1564 710- | 476 684- | 7 9858- |
| a_3 | 63 417- | 544 457- | 1 7391- | 427 233+ | 550 811+ | 1 0688+ |
| a_4 | 88 779- | 1 931- | 78- | 7 237+ | 15 376- | 503- |
| a_5 | 2 592- | 7 253+ | | 3 520- | 763+ | |
| June 11 | | | | | | |
| a_0 | 58-1130 543+ | 23-7321 389+ | 0-9665 7920+ | 173-5583 591+ | 2-7087 525- | 0-9851 3613+ |
| a_1 | 14-7503 756+ | 1-9455 905+ | 0-0123 2113+ | 12-7871 779+ | 5-9302 616- | 0-0068 6974- |
| a_2 | 4164 367+ | 6744 190- | 5 3789- | 274 737- | 1091 190+ | 5 0863- |
| a_3 | 438 342- | 479 473- | 1 7740- | 421 195+ | 496 896+ | 8591+ |
| a_4 | 103 550- | 36 311+ | 600+ | 9 981- | 11 114- | 665- |
| a_5 | 8 283+ | 7 701+ | | 3 184- | 690+ | |
| June 12 | | | | | | |
| a_0 | 73-2265 058+ | 24-9597 644+ | 0-9781 9104+ | 186-3588 663+ | 8-4812 478- | 0-9778 3701+ |
| a_1 | 15-4144 778+ | 0-4712 801+ | 0-0107 3716+ | 12-8530 043+ | 5-5670 563- | 0-0076 5593- |
| a_2 | 2311 395+ | 7887 443- | 10 3203- | 897 110+ | 2522 149+ | 2 9063- |
| a_3 | 765 029- | 259 993- | 1 5301- | 349 277+ | 458 787+ | 5867+ |
| a_4 | 58 446- | 76 833+ | 1277+ | 25 922- | 7 335- | 595- |
| a_5 | 16 908+ | 2 786+ | | 3 514- | 272- | |
| June 13 | | | | | | |
| a_0 | 88-7914 664+ | 24-6242 626+ | 0-9877 5592+ | 199-3335 657+ | 13-7509 712- | 0-9699 4317+ |
| a_1 | 15-6323 191+ | 1-1520 883- | 0-0082 6521+ | 13-1250 843+ | 4-9280 619- | 0-0080 8500- |
| a_2 | 164 534- | 8178 639- | 14 1313- | 1754 158+ | 3851 801+ | 1 4967- |
| a_3 | 831 909- | 71 299+ | 1 0073- | 210 727+ | 425 892+ | 3455+ |
| a_4 | 31 483+ | 90 260+ | 1702+ | 44 208- | 8 587- | 379- |
| a_5 | 12 922+ | 4 193- | | 3 139- | 1 731- | |
| June 14 | | | | | | |
| a_0 | 104-3285 817+ | 22-6700 469+ | 0-9945 2430+ | 212-6504 038+ | 18-2522 957- | 0-9617 3926+ |
| a_1 | 15-3688 808+ | 2-7324 228- | 0-0052 0494+ | 13-5198 844+ | 4-0342 358- | 0-0082 9587- |
| a_2 | 2342 120- | 7465 430- | 16 1322- | 2089 511+ | 5060 598+ | 6795- |
| a_3 | 583 167- | 388 536+ | 3113- | 4 124+ | 373 584+ | 1936+ |
| a_4 | 96 306+ | 67 089+ | 1690+ | 61 160- | 17 574- | 111- |
| a_5 | 1 325+ | 7 414- | | 417- | 2 885- | |
| June 15 | | | | | | |
| a_0 | 119-4146 969+ | 19-2359 022+ | 0-9981 0178+ | 226-3734 941+ | 21-7451 591- | 0-9533 9370+ |
| a_1 | 14-7646 830+ | 4-0858 176- | 0-0019 5276+ | 13-9143 569+ | 2-9185 125- | 0-0083 7811- |
| a_2 | 3500 992- | 5971 618- | 16 0657- | 1730 660+ | 6046 948+ | 1579- |
| a_3 | 188 990- | 583 529+ | 3761+ | 241 803- | 274 624+ | 1511+ |
| a_4 | 99 811+ | 28 660+ | 1249+ | 63 826- | 32 778- | 130+ |
| a_5 | 6 127- | 5 923- | | 4 645+ | 2 585- | |
| June 16 | | | | | | |
| a_0 | 133-8197 501+ | 14-6135 494+ | 0-9984 9807+ | 240-4308 187+ | 24-0350 508- | 0-9450 1621+ |
| a_1 | 14-0446 473+ | 5-0965 764- | 0-0010 9757- | 14-1647 449+ | 1-6411 372- | 0-0083 5914- |
| a_2 | 3530 679- | 4108 299- | 14 2086- | 668 935+ | 6648 208+ | 3784+ |
| a_3 | 148 386+ | 640 722+ | 8789+ | 448 423- | 118 901+ | 2063+ |
| a_4 | 67 120+ | 969- | 577+ | 39 242- | 46 339- | 289+ |
| a_5 | 6 939- | 2 769- | | 8 675+ | 396- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|---------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| June 25 | | | | | | |
| a_0 | 254.6145 583+ | 25.0041 508- | 0.9367 1843+ | 351.7297 037+ | 1.8797 185+ | 0.9054 5817+ |
| a_1 | 14.1526 452+ | 0.2945 562- | 0.0082 0999- | 10.7783 450+ | 5.0178 430+ | 0.0041 2068+ |
| a_2 | 824 725- | 6722 942+ | 1 1725+ | 736 296+ | 133 687- | 13 7396+ |
| a_3 | 519 131- | 68 852- | 3254+ | 398 314+ | 243 004- | 1696+ |
| a_4 | 6 331+ | 48 116- | 344+ | 4 294+ | 3 963- | 703- |
| a_5 | 7 797+ | 2 381+ | | 760- | 1 607- | |
| June 26 | | | | | | |
| a_0 | 268.6342 307+ | 24.6378 715- | 0.9286 6167+ | 2.6218 632+ | 6.8593 354+ | 0.9109 6274+ |
| a_1 | 13.8383 863+ | 1.0113 224+ | 0.0078 6410- | 11.0464 347+ | 4.9158 156+ | 0.0068 9136+ |
| a_2 | 2266 072- | 6251 620+ | 2 3536+ | 1949 444+ | 902 585- | 13 8206+ |
| a_3 | 418 560- | 236 691- | 4657+ | 407 187+ | 274 848- | 1108- |
| a_4 | 46 011+ | 35 395- | 301+ | 834+ | 12 200- | 898- |
| a_5 | 2 911+ | 3 791+ | | 1 958- | 1 480- | |
| June 27 | | | | | | |
| a_0 | 282.2090 459+ | 23.0282 165- | 0.9210 8251+ | 13.9038 486+ | 11.6560 396+ | 0.9192 1610+ |
| a_1 | 13.2794 586+ | 2.1783 762+ | 0.0072 4163- | 11.5578 317+ | 4.6472 251+ | 0.0095 8632+ |
| a_2 | 3216 730- | 5367 175+ | 3 9277+ | 3156 460+ | 1815 195- | 12 9434+ |
| a_3 | 207 959- | 340 620- | 5877+ | 389 689+ | 337 967- | 4704- |
| a_4 | 59 540+ | 15 815- | 189+ | 8 668- | 20 013- | 1097- |
| a_5 | 1 593- | 3 296+ | | 4 128- | 673- | |
| June 28 | | | | | | |
| a_0 | 295.1518 303+ | 20.3484 366- | 0.9142 9430+ | 25.8150 155+ | 16.0858 800+ | 0.9300 3873+ |
| a_1 | 12.5967 421+ | 3.1449 458+ | 0.0062 7223- | 12.3004 963+ | 4.1744 570+ | 0.0119 8994+ |
| a_2 | 3499 485- | 4283 407+ | 5 7995+ | 4232 168+ | 2955 997- | 10 8693+ |
| a_3 | 13 283+ | 371 732- | 6637+ | 312 423+ | 423 537- | 9129- |
| a_4 | 50 343+ | 793+ | 43+ | 29 683- | 24 017- | 1238- |
| a_5 | 3 304- | 1 838+ | | 6 489- | 1 396+ | |
| June 29 | | | | | | |
| a_0 | 307.4046 562+ | 16.8120 603- | 0.9086 6883+ | 38.5663 536+ | 19.9201 215+ | 0.9430 1193+ |
| a_1 | 11.9193 155+ | 3.8913 421+ | 0.0049 1148- | 13.2255 395+ | 3.4472 916+ | 0.0138 4036+ |
| a_2 | 3190 715- | 3191 323+ | 7 8120+ | 4926 141+ | 4356 815- | 7 3890+ |
| a_3 | 181 866+ | 350 982- | 6809+ | 129 105+ | 503 666- | 1 4160- |
| a_4 | 33 220+ | 9 818+ | 108- | 64 155- | 17 471- | 1205- |
| a_5 | 2 865- | 433+ | | 6 188- | 4 852+ | |
| June 30 | | | | | | |
| a_0 | 319.0261 223+ | 12.6356 590- | 0.9046 0556+ | 52.2903 833+ | 22.8801 031+ | 0.9574 3754+ |
| a_1 | 11.3475 890+ | 4.4284 545+ | 0.0031 4912- | 14.2207 507+ | 2.4202 697+ | 0.0148 4509+ |
| a_2 | 2474 469- | 2201 580+ | 9 7857+ | 4866 177+ | 5924 002- | 2 4292+ |
| a_3 | 286 752+ | 307 941- | 6376+ | 185 368- | 523 303- | 1 9102- |
| a_4 | 18 804+ | 11 774+ | 251- | 98 278- | 7 590+ | 854- |
| a_5 | 1 743- | 532- | | 704+ | 7 979+ | |
| July 1 | | | | | | |
| a_0 | 330.1566 457+ | 8.0167 164- | 0.9024 9627+ | 66.9694 574+ | 24.6571 993+ | 0.9723 2599+ |
| a_1 | 10.9453 718+ | 4.7808 313+ | 0.0010 1073- | 15.0994 288+ | 1.0855 031+ | 0.0147 2365+ |
| a_2 | 1518 810- | 1343 059+ | 11 5438+ | 3727 421+ | 7368 247- | 3 7899- |
| a_3 | 345 080+ | 266 495- | 5374+ | 565 021- | 413 692- | 2 2648- |
| a_4 | 10 211+ | 8 966+ | 389- | 94 870- | 49 782+ | 93- |
| a_5 | 827- | 1 105- | | 12 256+ | 7 130+ | |
| July 2 | | | | | | |
| a_0 | 340.9855 829+ | 3.1274 426- | 0.9026 8977+ | 82.3768 648+ | 24.9701 998+ | 0.9864 4326+ |
| a_1 | 10.7488 051+ | 4.9725 281+ | 0.0014 4369+ | 15.6435 913+ | 0.4887 827- | 0.0132 8249+ |
| a_2 | 430 552- | 586 302+ | 12 9181+ | 1586 424+ | 8239 105- | 10 6065- |
| a_3 | 377 880+ | 241 876- | 3824+ | 819 371- | 146 651- | 2 3085- |
| a_4 | 6 279+ | 3 346+ | 534- | 28 391- | 86 986+ | 993+ |
| a_5 | 449- | 1 442- | | 16 967+ | 1 078+ | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|---------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| July 11 | | | | | | |
| a_0 | 98.0960 192+ | 23.6516 479+ | 0.9984 4420+ | 209.5928 175+ | 17.3102 340- | 0.9663 6155+ |
| a_1 | 15.7121 832+ | 2.1452 729- | 0.0105 0843+ | 13.4624 250+ | 4.2672 605- | 0.0115 6343- |
| a_2 | 871 800- | 8146 518- | 16 9028- | 1544 349+ | 4993 067+ | 1 8308+ |
| a_3 | 767 633- | 208 369+ | 1 9034- | 69 690+ | 343 284+ | 8948+ |
| a_4 | 60 445+ | 91 268+ | 2072+ | 51 806- | 19 471- | 992- |
| a_5 | 8 895+ | 5 518- | | 882- | 1 526- | |
| July 12 | | | | | | |
| a_0 | 113.6511 931+ | 20.7211 351+ | 1.0070 9274+ | 223.2113 774+ | 21.0459 591- | 0.9550 6077+ |
| a_1 | 15.3361 467+ | 3.6783 200- | 0.0066 3986+ | 13.7710 424+ | 3.1742 138- | 0.0109 6852- |
| a_2 | 2723 300- | 7029 281- | 21 3513- | 1433 657+ | 5890 761+ | 3 9283+ |
| a_3 | 443 150- | 516 956+ | 1 0526- | 144 195- | 249 992+ | 4954+ |
| a_4 | 103 390+ | 61 579+ | 2676+ | 56 862- | 27 585- | 725- |
| a_5 | 2 241- | 7 712- | | 2 914+ | 1 808- | |
| July 13 | | | | | | |
| a_0 | 128.6808 098+ | 16.3969 692+ | 1.0115 1896+ | 237.1059 713+ | 23.6090 370- | 0.9445 2737+ |
| a_1 | 14.6987 718+ | 4.9083 121- | 0.0021 6098+ | 13.9932 316+ | 1.9330 010- | 0.0100 6325- |
| a_2 | 3455 271- | 5186 211- | 22 9090- | 689 122+ | 6457 067+ | 4 9889+ |
| a_3 | 54 906- | 687 156+ | 436+ | 340 427- | 122 199+ | 2053+ |
| a_4 | 89 111+ | 21 987+ | 2503+ | 41 647- | 37 172- | 418- |
| a_5 | 7 122- | 5 841- | | 6 630+ | 709- | |
| July 14 | | | | | | |
| a_0 | 143.0367 627+ | 11.0403 663+ | 1.0114 1842+ | 251.1305 707+ | 24.8878 994- | 0.9349 7935+ |
| a_1 | 14.0233 294+ | 5.7335 293- | 0.0023 0754- | 14.0155 847+ | 0.6201 487- | 0.0090 2060- |
| a_2 | 3156 759- | 3051 213- | 21 3024- | 515 511- | 6593 535+ | 5 3628+ |
| a_3 | 230 545+ | 718 419+ | 1 0612+ | 440 449- | 32 474- | 396+ |
| a_4 | 52 122+ | 7 148- | 1651+ | 6 819- | 40 799- | 136- |
| a_5 | 6 548- | 2 810- | | 7 119+ | 1 246+ | |
| July 15 | | | | | | |
| a_0 | 156.7720 281+ | 5.0725 618+ | 1.0071 0326+ | 265.0505 894+ | 24.8558 973- | 0.9264 9763+ |
| a_1 | 13.4787 178+ | 6.1325 079- | 0.0061 8363- | 13.7811 762+ | 0.6731 211+ | 0.0079 4160- |
| a_2 | 2217 885- | 966 870- | 17 1628- | 1806 448- | 6263 844+ | 5 4068+ |
| a_3 | 374 632+ | 663 058+ | 1 7221+ | 398 347- | 182 390- | 125- |
| a_4 | 19 392+ | 20 697- | 533+ | 29 783+ | 34 109- | 85+ |
| a_5 | 4 625- | 503- | | 3 907+ | 2 690+ | |
| July 16 | | | | | | |
| a_0 | 170.0678 973+ | 1.0924 473- | 0.9993 8087+ | 278.6146 550+ | 23.5777 727- | 0.9190 9631+ |
| a_1 | 13.1529 762+ | 6.1354 935- | 0.0090 7832- | 13.3142 448+ | 1.8588 743+ | 0.0068 6058- |
| a_2 | 1023 837- | 893 178+ | 11 7062- | 2783 794- | 5538 992+ | 5 4248+ |
| a_3 | 406 631+ | 575 858+ | 1 9245+ | 242 461- | 291 842- | 242+ |
| a_4 | 3 356- | 22 665- | 414- | 48 877+ | 20 133- | 228+ |
| a_5 | 3 481- | 551+ | | 126- | 2 819+ | |
| July 17 | | | | | | |
| a_0 | 183.1584 693+ | 7.0832 487- | 0.9893 2022+ | 291.6311 494+ | 21.1959 148- | 0.9127 8292+ |
| a_1 | 13.0671 156+ | 5.7928 914- | 0.0108 5887- | 12.7042 330+ | 2.8724 754+ | 0.0057 5922- |
| a_2 | 141 119+ | 2490 335+ | 6 1985- | 3219 331- | 4570 889+ | 5 6360+ |
| a_3 | 358 589+ | 490 648+ | 1 7449+ | 49 556- | 344 660- | 1179+ |
| a_4 | 20 621- | 19 468- | 964- | 47 246+ | 5 811- | 288+ |
| a_5 | 3 197- | 441+ | | 2 378- | 1 972+ | |
| July 18 | | | | | | |
| a_0 | 196.2731 738+ | 12.5799 446- | 0.9780 0635+ | 304.0129 804+ | 17.9012 004- | 0.9076 0197+ |
| a_1 | 13.1930 697+ | 5.1551 982- | 0.0116 1372- | 12.0632 089+ | 3.6819 158+ | 0.0045 8512- |
| a_2 | 1061 119+ | 3849 914+ | 1 5472- | 3108 420- | 3521 758+ | 6 1620+ |
| a_3 | 244 412+ | 416 667+ | 1 3481+ | 115 451+ | 348 804- | 2353+ |
| a_4 | 37 010- | 17 022- | 1117- | 34 653+ | 4 002+ | 273+ |
| a_5 | 2 781- | 471- | | 2 610- | 893+ | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|----------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| July 27 | | | | | | |
| a_0 | 315.7800 969+ | 13.9014 997- | 0.9036 5931+ | 47.2588 686+ | 21.8652 103+ | 0.9416 1483+ |
| a_1 | 11.4887 177+ | 4.2836 727+ | 0.0032 7121- | 13.5144 485+ | 2.7571 321+ | 0.0139 6222+ |
| a_2 | 2580 290- | 2508 268+ | 7 0292+ | 4653 215+ | 5090 236- | 9 3614+ |
| a_3 | 228 380+ | 324 368- | 3461+ | 4 114+ | 467 767- | 1 0432- |
| a_4 | 21 341+ | 8 321+ | 198+ | 69 751- | 6 543- | 1483- |
| a_5 | 1 861- | 22+ | | 3 113- | 5 150+ | |
| July 28 | | | | | | |
| a_0 | 327.0355 716+ | 9.3986 026- | 0.9011 2760+ | 61.2317 637+ | 24.0664 027+ | 0.9563 9404+ |
| a_1 | 11.0487 803+ | 4.6913 545+ | 0.0017 5363- | 14.4168 778+ | 1.5987 142+ | 0.0154 6217+ |
| a_2 | 1785 721- | 1585 287+ | 8 1824+ | 4215 650+ | 6481 145- | 5 3438+ |
| a_3 | 295 633+ | 291 202- | 4263+ | 301 577- | 441 507- | 1 6473- |
| a_4 | 12 052+ | 8 303+ | 79+ | 87 184- | 20 268+ | 1441- |
| a_5 | 1 027- | 566- | | 4 690+ | 6 880+ | |
| July 29 | | | | | | |
| a_0 | 337.9364 456+ | 4.5770 658- | 0.9002 3563+ | 76.0317 994+ | 24.9755 665+ | 0.9722 1145+ |
| a_1 | 10.7846 338+ | 4.9240 893+ | 0.0000 1391+ | 15.1370 149+ | 0.1815 778+ | 0.0159 7900+ |
| a_2 | 836 769- | 755 826+ | 9 5040+ | 2834 961+ | 7615 008- | 4475- |
| a_3 | 333 882+ | 263 866- | 4588+ | 598 948- | 292 772- | 2 2410- |
| a_4 | 7 048+ | 5 387+ | 71- | 61 972- | 56 422+ | 955- |
| a_5 | 524- | 948- | | 12 783+ | 4 919+ | |
| July 30 | | | | | | |
| a_0 | 348.6714 431+ | 0.3966 633+ | 0.9012 4511+ | 91.3874 967+ | 24.3725 004+ | 0.9879 1206+ |
| a_1 | 10.7200 015+ | 4.9977 750+ | 0.0020 4950+ | 15.5059 248+ | 1.4042 328- | 0.0151 7891+ |
| a_2 | 201 940+ | 12 947- | 10 8320+ | 794 724+ | 8105 504- | 7 7110- |
| a_3 | 356 830+ | 251 941- | 4312+ | 719 164- | 20 793- | 2 6407- |
| a_4 | 4 618+ | 574+ | 248- | 6 283+ | 81 665+ | 92+ |
| a_5 | 523- | 1 192- | | 12 456+ | 249- | |
| July 31 | | | | | | |
| a_0 | 359.4477 311+ | 5.3678 877+ | 0.9044 1844+ | 106.9028 515+ | 22.1637 796+ | 1.0020 5672+ |
| a_1 | 10.8690 232+ | 4.9192 369+ | 0.0043 3533+ | 15.4578 524+ | 2.9990 349- | 0.0128 4813+ |
| a_2 | 1294 928+ | 777 267- | 11 9699+ | 1200 289- | 7680 522- | 15 5335- |
| a_3 | 369 677+ | 261 610- | 3329+ | 574 096- | 300 774+ | 2 6106- |
| a_4 | 2 238+ | 5 504- | 457- | 70 126+ | 79 409+ | 1541+ |
| a_5 | 1 158- | 1 267- | | 4 013+ | 4 824- | |
| August 1 | | | | | | |
| a_0 | 10.4833 228+ | 10.1825 597+ | 0.9099 7948+ | 122.1906 792+ | 18.4342 282+ | 1.0131 0587+ |
| a_1 | 11.2392 266+ | 4.6824 657+ | 0.0068 1090+ | 15.0756 137+ | 4.4155 577- | 0.0090 1997+ |
| a_2 | 2405 838+ | 1607 828- | 12 6865+ | 2461 979- | 6350 177- | 22 4000- |
| a_3 | 366 229+ | 296 120- | 1513+ | 257 897- | 569 288+ | 1 9794- |
| a_4 | 3 304- | 12 076- | 705- | 88 282+ | 53 991+ | 2872+ |
| a_5 | 2 555- | 978- | | 3 764- | 6 283- | |
| August 2 | | | | | | |
| a_0 | 21.9991 702+ | 14.6733 252+ | 0.9180 6710+ | 137.0027 570+ | 13.4453 524+ | 1.0197 1663+ |
| a_1 | 11.8276 618+ | 4.2667 461+ | 0.0093 6536+ | 14.5392 763+ | 5.4963 507- | 0.0040 6122+ |
| a_2 | 3459 145+ | 2578 487- | 12 7082+ | 2743 932- | 4381 289- | 26 5978- |
| a_3 | 326 361+ | 353 589- | 1300- | 56 007+ | 722 984+ | 7974- |
| a_4 | 16 074- | 17 386- | 990- | 67 382+ | 21 930+ | 3432+ |
| a_5 | 4 493- | 59+ | | 6 343- | 5 247- | |
| August 3 | | | | | | |
| a_0 | 34.2033 259+ | 18.6451 310+ | 0.9286 8037+ | 151.2793 446+ | 7.5848 395+ | 1.0210 7265+ |
| a_1 | 12.6087 219+ | 3.6380 498+ | 0.0118 2840+ | 14.0310 737+ | 6.1495 625- | 0.0013 6008- |
| a_2 | 4296 713+ | 3743 052- | 11 7153+ | 2235 171- | 2133 233- | 26 9463- |
| a_3 | 216 543+ | 421 287- | 5269- | 262 456+ | 759 357+ | 6090+ |
| a_4 | 39 419- | 17 588- | 1279- | 34 921+ | 4 384- | 2912+ |
| a_5 | 5 629- | 2 221+ | | 5 634- | 3 276- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|-----------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| August 12 | | | | | | |
| a_0 | 165-1160 755+ | 1-2971 235+ | 1-0171 0794+ | 275-4431 056+ | 23-9046 327- | 0-9204 0140+ |
| a_1 | 13-6739 291+ | 6-3517 915- | 0-0064 5011- | 13-3653 127+ | 1-5634 595+ | 0-0084 4390- |
| a_2 | 1294 618- | 85 813+ | 23 4124- | 2712 423- | 5636 866+ | 9 3053+ |
| a_3 | 346 513+ | 710 097+ | 1 7890+ | 221 500- | 272 637- | 1031- |
| a_4 | 6 819+ | 20 519- | 1604+ | 42 807+ | 17 673- | 262- |
| a_5 | 4 386- | 1 469- | | 96+ | 2 299+ | |
| August 13 | | | | | | |
| a_0 | 178-6954 375+ | 4-9772 759- | 1-0085 1153+ | 288-5193 163+ | 21-8062 876- | 0-9128 7510+ |
| a_1 | 13-5194 951+ | 6-1305 408- | 0-0105 3174- | 12-7735 466+ | 2-6031 213+ | 0-0066 2425- |
| a_2 | 258 021- | 2078 363+ | 17 1272- | 3119 251- | 4735 929+ | 8 8461+ |
| a_3 | 330 405+ | 613 935+ | 2 4248+ | 50 507- | 320 747- | 2061- |
| a_4 | 15 020- | 27 457- | 159+ | 42 442+ | 6 036- | 26- |
| a_5 | 3 588- | 428- | | 1 978- | 1 563+ | |
| August 14 | | | | | | |
| a_0 | 192-2203 101+ | 10-8413 753- | 0-9965 1114+ | 300-9799 336+ | 18-7620 956- | 0-9071 1458+ |
| a_1 | 13-5592 114+ | 5-5418 840- | 0-0132 2346- | 12-1505 318+ | 3-4524 487+ | 0-0049 1791- |
| a_2 | 607 137+ | 3751 206+ | 9 7901- | 3035 997- | 3753 085+ | 8 2174+ |
| a_3 | 234 972+ | 499 923+ | 2 4710+ | 99 266+ | 329 750- | 2146- |
| a_4 | 33 271- | 29 243- | 896- | 31 930+ | 1 716+ | 149+ |
| a_5 | 2 721- | 292- | | 2 331- | 712+ | |
| August 15 | | | | | | |
| a_0 | 205-8601 333+ | 15-9610 999- | 0-9825 4680+ | 312-8397 522+ | 14-9670 705- | 0-9029 9844+ |
| a_1 | 13-7364 640+ | 4-6535 097- | 0-0144 7611- | 11-5847 191+ | 4-1051 824+ | 0-0033 3285- |
| a_2 | 1085 106+ | 5072 608+ | 2 9302- | 2569 978- | 2781 229+ | 7 6663+ |
| a_3 | 75 850+ | 379 846+ | 2 0952+ | 204 003+ | 316 134- | 1530- |
| a_4 | 47 583- | 30 630- | 1390- | 20 012+ | 5 143+ | 260+ |
| a_5 | 722- | 647- | | 1 764- | 69+ | |
| August 16 | | | | | | |
| a_0 | 219-7078 623+ | 20-0724 919- | 0-9679 7330+ | 324-1896 986+ | 10-6148 573- | 0-9004 1953+ |
| a_1 | 13-9568 497+ | 3-5376 099- | 0-0144 8924- | 11-1390 476+ | 4-5686 794+ | 0-0018 3506- |
| a_2 | 1019 855+ | 6021 858+ | 2 5200+ | 1855 550- | 1864 360+ | 7 3649+ |
| a_3 | 119 762- | 250 845+ | 1 5277+ | 266 851+ | 295 092- | 468- |
| a_4 | 51 669- | 34 135- | 1428- | 11 173+ | 5 380+ | 305+ |
| a_5 | 2 687+ | 697- | | 1 056- | 333- | |
| August 17 | | | | | | |
| a_0 | 233-7498 231+ | 22-9863 147- | 0-9538 7455+ | 335-1708 880+ | 5-8887 463- | 0-8993 1933+ |
| a_1 | 14-1055 716+ | 2-2719 861- | 0-0135 8407- | 10-8519 346+ | 4-8550 093+ | 0-0003 6390- |
| a_2 | 377 500+ | 6562 569+ | 6 2531+ | 998 510- | 1008 026+ | 7 4069+ |
| a_3 | 297 787- | 107 805+ | 9511+ | 301 293+ | 277 026- | 773+ |
| a_4 | 37 653- | 37 965- | 1205- | 5 986+ | 3 649+ | 283+ |
| a_5 | 5 858+ | 113+ | | 586- | 574- | |
| August 18 | | | | | | |
| a_0 | 247-8601 866+ | 24-5950 486- | 0-9409 9886+ | 345-9536 409+ | 0-9603 295- | 0-8997 0668+ |
| a_1 | 14-0796 037+ | 0-9422 589- | 0-0120 9632- | 10-7447 216+ | 4-9746 793+ | 0-0011 5201+ |
| a_2 | 683 011- | 6659 321+ | 8 3935+ | 64 570- | 193 093+ | 7 8062+ |
| a_3 | 389 577- | 42 172- | 4679+ | 319 443+ | 268 244- | 1926+ |
| a_4 | 6 987- | 37 423- | 881- | 3 179+ | 727+ | 199+ |
| a_5 | 6 276+ | 1 449+ | | 506- | 724- | |
| August 19 | | | | | | |
| a_0 | 261-8324 604+ | 24-8791 900- | 0-9297 7988+ | 356-7241 172+ | 4-0068 350+ | 0-9016 6057+ |
| a_1 | 13-8264 685+ | 0-3627 100+ | 0-0103 1247- | 10-8286 585+ | 4-9327 534+ | 0-0027 7901+ |
| a_2 | 1830 792- | 6322 806+ | 9 2789+ | 907 786+ | 614 531- | 8 4990+ |
| a_3 | 356 254- | 176 860- | 1163+ | 326 884+ | 272 598- | 2740+ |
| a_4 | 25 234+ | 29 829- | 552- | 807+ | 2 965- | 57+ |
| a_5 | 3 578+ | 2 356+ | | 891- | 776- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|-------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| August 28 | | | | | | |
| a_0 | 7.6762 343+ | 8.8505 014+ | 0.9053 1744+ | 115.7481 698+ | 20.0724 639+ | 0.9983 5370+ |
| a_1 | 11.1081 573+ | 4.7264 939+ | 0.0045 6330+ | 14.9056 797+ | 3.7202 213- | 0.0137 6557+ |
| a_2 | 1884 384+ | 1457 903- | 9 3491+ | 1351 189- | 6782 011- | 11 1154- |
| a_3 | 320 675+ | 292 127- | 2985+ | 304 409- | 360 561+ | 2 6728- |
| a_4 | 3 491- | 6 988- | 139- | 66 150+ | 58 526+ | 442+ |
| a_5 | 1 786- | 620- | | 241- | 3 091- | |
| August 29 | | | | | | |
| a_0 | 19.0043 699+ | 13.4012 315+ | 0.9108 4411+ | 130.4948 806+ | 15.7156 412+ | 1.0107 4489+ |
| a_1 | 11.5789 461+ | 4.3441 707+ | 0.0065 1712+ | 14.5704 544+ | 4.9465 910- | 0.0107 5831+ |
| a_2 | 2807 596+ | 2382 451- | 10 1535+ | 1870 139- | 5380 131- | 18 8209- |
| a_3 | 288 114+ | 325 940- | 2446+ | 44 482- | 563 309+ | 2 4983- |
| a_4 | 12 414- | 10 333- | 387- | 63 507+ | 42 710+ | 2001+ |
| a_5 | 3 039- | 38- | | 4 148- | 3 817- | |
| August 30 | | | | | | |
| a_0 | 30.8913 417+ | 17.4735 262+ | 0.9183 9718+ | 144.8798 088+ | 10.2912 573+ | 1.0193 9130+ |
| a_1 | 12.2204 137+ | 3.7657 482+ | 0.0086 0576+ | 14.2064 093+ | 5.8384 492- | 0.0063 2478+ |
| a_2 | 3566 983+ | 3422 689- | 10 6461+ | 1664 178- | 3472 135- | 25 0770- |
| a_3 | 207 581+ | 366 933- | 915+ | 167 443+ | 695 933+ | 1 6766- |
| a_4 | 28 103- | 10 829- | 684- | 41 806+ | 23 471+ | 3264+ |
| a_5 | 3 901- | 1 197+ | | 5 146- | 3 875- | |
| August 31 | | | | | | |
| a_0 | 43.4860 114+ | 20.8593 488+ | 0.9280 6984+ | 158.9402 106+ | 4.1771 475+ | 1.0230 7336+ |
| a_1 | 12.9828 944+ | 2.9673 991+ | 0.0107 3504+ | 13.9379 562+ | 6.3166 450- | 0.0009 3716+ |
| a_2 | 3981 903+ | 4576 518- | 10 4994+ | 962 521- | 1282 275- | 28 1390- |
| a_3 | 56 847+ | 397 261- | 1817- | 283 358+ | 751 258+ | 3333- |
| a_4 | 48 879- | 4 983- | 1018- | 15 810+ | 3 975+ | 3571+ |
| a_5 | 2 774- | 2 988+ | | 4 868- | 3 531- | |
| September 1 | | | | | | |
| a_0 | 56.8676 154+ | 23.3291 705+ | 0.9398 2647+ | 172.8113 448+ | 2.1925 549- | 1.0211 9898+ |
| a_1 | 13.7753 955+ | 1.9324 195+ | 0.0127 3969+ | 13.8343 503+ | 6.3478 976- | 0.0046 4764- |
| a_2 | 3831 217+ | 5768 262- | 9 3339+ | 66 288- | 960 030+ | 27 0216- |
| a_3 | 163 847- | 386 490- | 5905- | 298 202+ | 732 209+ | 1 1273+ |
| a_4 | 64 157- | 10 357+ | 1337- | 8 618- | 13 738- | 2743+ |
| a_5 | 1 681+ | 4 469+ | | 4 404- | 2 887- | |
| September 2 | | | | | | |
| a_0 | 71.0035 004+ | 24.6475 975+ | 0.9534 2713+ | 186.6675 843+ | 8.3728 911- | 1.0139 8934+ |
| a_1 | 14.4676 694+ | 0.6691 972+ | 0.0143 7581+ | 13.9049 056+ | 5.9431 667- | 0.0096 0398- |
| a_2 | 2971 578+ | 6820 764- | 6 7545+ | 732 501+ | 3045 373+ | 22 0397- |
| a_3 | 400 333- | 300 520- | 1 1318- | 220 240+ | 648 795+ | 2 2345+ |
| a_4 | 55 487- | 33 628+ | 1530- | 31 073- | 28 114- | 1242+ |
| a_5 | 7 643+ | 4 237+ | | 3 487- | 2 195- | |
| September 3 | | | | | | |
| a_0 | 85.7235 100+ | 24.6084 528+ | 0.9683 4992+ | 200.6643 080+ | 13.9496 719- | 1.0024 1724+ |
| a_1 | 14.9235 144+ | 0.7695 445- | 0.0153 2590+ | 14.1033 081+ | 5.1517 961- | 0.0132 9196- |
| a_2 | 1514 432+ | 7478 085- | 2 4449+ | 1171 778+ | 4801 127+ | 14 6362- |
| a_3 | 544 607- | 124 971- | 1 7574- | 62 474+ | 514 776+ | 2 7200+ |
| a_4 | 14 828- | 55 499+ | 1415- | 49 380- | 39 077- | 222- |
| a_5 | 9 891+ | 1 876+ | | 1 099- | 1 557- | |
| September 4 | | | | | | |
| a_0 | 100.7435 132+ | 23.0843 403+ | 0.9837 3043+ | 214.8859 935+ | 18.5739 411- | 0.9879 3144+ |
| a_1 | 15.0620 287+ | 2.2795 185- | 0.0152 3097+ | 14.3361 092+ | 4.0535 461- | 0.0154 1217- |
| a_2 | 109 166- | 7501 260- | 3 6563- | 1051 847+ | 6095 399+ | 6 6390- |
| a_3 | 507 166- | 114 084+ | 2 3425- | 143 704- | 343 460+ | 2 6116+ |
| a_4 | 36 643+ | 64 725+ | 783- | 55 403- | 47 063- | 1177- |
| a_5 | 5 967+ | 1 127- | | 2 975+ | 617- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|--------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| September 13 | | | | | | |
| a_0 | 229.3076 742+ | 21.9883 693- | 0.9721 0476+ | 332.4013 443+ | 7.0650 379- | 0.8998 6584+ |
| a_1 | 14.4826 979+ | 2.7505 603- | 0.0160 0366- | 10.9133 394+ | 4.7533 641+ | 0.0005 7533- |
| a_2 | 318 172+ | 6837 202+ | 4779+ | 1094 081- | 1259 894+ | 8 7509+ |
| a_3 | 333 512- | 149 921+ | 2 1240+ | 304 021+ | 269 101- | 3853- |
| a_4 | 39 738- | 50 352- | 1545- | 3 851+ | 1 866+ | 180+ |
| a_5 | 6 647+ | 925+ | | 616- | 662- | |
| September 14 | | | | | | |
| a_0 | 243.7855 290+ | 24.0451 601- | 0.9563 4583+ | 343.2360 012+ | 2.2124 740- | 0.9001 2886+ |
| a_1 | 14.4337 073+ | 1.3578 204- | 0.0153 3277- | 10.7869 618+ | 4.9250 284+ | 0.0010 6646+ |
| a_2 | 854 093- | 6994 127+ | 5 9238+ | 165 066- | 457 159+ | 7 7060+ |
| a_3 | 425 862- | 41 327- | 1 4959+ | 313 292+ | 268 233- | 3116- |
| a_4 | 4 827- | 45 536- | 1494- | 901+ | 1 497- | 274+ |
| a_5 | 6 897+ | 2 540+ | | 538- | 612- | |
| September 15 | | | | | | |
| a_0 | 258.0914 479+ | 24.7120 001- | 0.9417 4009+ | 354.0378 220+ | 2.7312 361+ | 0.9019 3750+ |
| a_1 | 14.1366 442+ | 0.0116 635+ | 0.0137 5903- | 10.8480 276+ | 4.9350 856+ | 0.0025 2515+ |
| a_2 | 2091 554- | 6622 410+ | 9 5228+ | 774 847+ | 362 659- | 6 9367+ |
| a_3 | 378 061- | 197 679- | 8944+ | 311 299+ | 280 268- | 1999- |
| a_4 | 30 549+ | 32 304- | 1234- | 1 685- | 4 632- | 311+ |
| a_5 | 3 564+ | 3 218+ | | 879- | 468- | |
| September 16 | | | | | | |
| a_0 | 271.9845 418+ | 24.0607 721- | 0.9290 1045+ | 4.9942 078+ | 7.6015 189+ | 0.9051 3945+ |
| a_1 | 13.6189 120+ | 1.2655 285+ | 0.0116 3551- | 11.0952 722+ | 4.7763 866+ | 0.0038 6498+ |
| a_2 | 3006 889- | 5867 788+ | 11 4754+ | 1689 843+ | 1235 959- | 6 5226+ |
| a_3 | 222 462- | 295 023- | 4005+ | 295 333+ | 303 305- | 731- |
| a_4 | 47 866+ | 15 797- | 915- | 6 006- | 7 085- | 279+ |
| a_5 | 372- | 2 656+ | | 1 625- | 174- | |
| September 17 | | | | | | |
| a_0 | 285.2852 681+ | 22.2392 812- | 0.9185 5339+ | 16.2872 346+ | 12.2232 532+ | 0.9096 5216+ |
| a_1 | 12.9697 536+ | 2.3455 868+ | 0.0092 5685- | 11.5186 251+ | 4.4352 829+ | 0.0051 5872+ |
| a_2 | 3390 949- | 4914 501+ | 12 1375+ | 2523 540+ | 2190 152- | 6 4669+ |
| a_3 | 35 938- | 332 327- | 357+ | 254 530+ | 333 052- | 408+ |
| a_4 | 45 015+ | 2 450- | 614- | 14 193- | 8 114- | 170+ |
| a_5 | 2 467- | 1 469+ | | 2 542- | 402+ | |
| September 18 | | | | | | |
| a_0 | 297.9165 879+ | 19.4355 751- | 0.9105 0772+ | 28.0819 932+ | 16.4054 445+ | 0.9154 6333+ |
| a_1 | 12.2975 550+ | 3.2285 421+ | 0.0068 4317- | 12.0927 440+ | 3.8942 934+ | 0.0064 7112+ |
| a_2 | 3253 444- | 3917 486+ | 11 8846+ | 3176 477+ | 3233 999- | 6 6852+ |
| a_3 | 119 332+ | 328 059- | 2083- | 172 101+ | 360 948- | 1111+ |
| a_4 | 32 031+ | 4 743+ | 354- | 27 378- | 6 271- | 16- |
| a_5 | 2 631- | 386+ | | 2 967- | 1 348+ | |
| September 19 | | | | | | |
| a_0 | 309.9036 717+ | 15.8475 775- | 0.9048 2865+ | 40.5065 604+ | 19.9397 508+ | 0.9226 1393+ |
| a_1 | 11.6941 636+ | 3.9157 108+ | 0.0045 4290- | 12.7672 364+ | 3.1373 762+ | 0.0078 4087+ |
| a_2 | 2729 610- | 2965 592+ | 11 0539+ | 3498 686+ | 4340 989- | 7 0010+ |
| a_3 | 221 546+ | 305 629- | 3487- | 33 635+ | 371 907- | 1068+ |
| a_4 | 18 675+ | 6 481+ | 138- | 43 194- | 469+ | 271- |
| a_5 | 1 891- | 287- | | 1 738- | 2 488+ | |
| September 20 | | | | | | |
| a_0 | 321.3487 072+ | 11.6652 510- | 0.9013 5489+ | 53.6225 358+ | 22.6061 331+ | 0.9311 6286+ |
| a_1 | 11.2212 306+ | 4.4195 890+ | 0.0024 4224- | 13.4589 221+ | 2.1590 388+ | 0.0092 6226+ |
| a_2 | 1971 844- | 2084 694+ | 9 9305+ | 3322 908+ | 5428 964- | 7 1490+ |
| a_3 | 277 773+ | 282 761- | 4027- | 154 485- | 344 774- | 4- |
| a_4 | 9 233+ | 4 897+ | 40+ | 52 817- | 13 259+ | 581- |
| a_5 | 1 096- | 588- | | 1 852+ | 3 180+ | |
| September 21 | | | | | | |
| September 22 | | | | | | |
| September 23 | | | | | | |
| September 24 | | | | | | |
| September 25 | | | | | | |
| September 26 | | | | | | |
| September 27 | | | | | | |
| September 28 | | | | | | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|--------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| September 29 | | | | | | |
| a_0 | 67.3932 037+ | 24.1894 420+ | 0.9411 3417+ | 180.3934 811+ | 5.6139 093- | 1.0162 3680+ |
| a_1 | 14.0569 624+ | 0.9767 065+ | 0.0106 6872+ | 13.8467 097+ | 6.1038 824- | 0.0021 7467- |
| a_2 | 2561 104+ | 6351 852- | 6 7893+ | 1206 373+ | 1760 076+ | 25 2926- |
| a_3 | 344 811- | 260 258- | 2328- | 260 620+ | 708 845+ | 1146+ |
| a_4 | 43 264- | 29 739+ | 909- | 26 034- | 4 469- | 3016+ |
| a_5 | 6 220+ | 2 645+ | | 4 768- | 3 933- | |
| September 30 | | | | | | |
| a_0 | 81.6680 910+ | 24.5081 760+ | 0.9524 4944+ | 194.3838 098+ | 11.4717 397- | 1.0115 7449+ |
| a_1 | 14.4515 461+ | 0.3585 248- | 0.0119 2034+ | 14.1533 747+ | 5.5429 678- | 0.0070 7803- |
| a_2 | 1329 523+ | 6927 694- | 5 5366+ | 1784 166+ | 3820 421+ | 23 1650- |
| a_3 | 454 813- | 115 814- | 5996- | 109 856+ | 651 524+ | 1 3449+ |
| a_4 | 10 455- | 43 264+ | 1190- | 51 053- | 24 487- | 2165+ |
| a_5 | 7 781+ | 936+ | | 3 044- | 4 158- | |
| October 1 | | | | | | |
| a_0 | 96.2068 408+ | 23.4497 203+ | 0.9648 5156+ | 208.7211 770+ | 16.5703 777- | 1.0023 3609+ |
| a_1 | 14.5807 123+ | 1.7610 362- | 0.0128 0010+ | 14.5212 267+ | 4.5952 994- | 0.0112 2094- |
| a_2 | 19 640- | 7006 230- | 3 0200+ | 1776 782+ | 5586 395+ | 17 8717- |
| a_3 | 420 380- | 65 624+ | 1 0836- | 122 043- | 512 618+ | 2 2158+ |
| a_4 | 29 872+ | 47 676+ | 1306- | 67 545- | 45 907- | 854+ |
| a_5 | 4 975+ | 786- | | 1 713+ | 3 096- | |
| October 2 | | | | | | |
| a_0 | 110.7470 358+ | 20.9993 125+ | 0.9778 3225+ | 223.4012 944+ | 20.5606 761- | 0.9895 5810+ |
| a_1 | 14.4651 015+ | 3.1239 186- | 0.0130 2673+ | 14.8138 151+ | 3.3441 428- | 0.0140 9642- |
| a_2 | 1051 825- | 6531 223- | 1 0073- | 1022 562+ | 6817 764+ | 10 7490- |
| a_3 | 253 740- | 248 033+ | 1 6192- | 371 780- | 299 565+ | 2 5466+ |
| a_4 | 54 613+ | 43 309+ | 1093- | 58 575- | 61 963- | 351- |
| a_5 | 369+ | 1 516- | | 7 615+ | 413- | |
| October 3 | | | | | | |
| a_0 | 125.0870 790+ | 17.2512 542+ | 0.9905 8541+ | 238.2750 918+ | 23.1993 236- | 0.9746 3793+ |
| a_1 | 14.2006 406+ | 4.3391 878- | 0.0122 9569+ | 14.8871 733+ | 1.9157 081- | 0.0154 9634- |
| a_2 | 1481 826- | 5542 448- | 6 4993- | 367 741- | 7340 583+ | 3 3431- |
| a_3 | 33 465- | 406 108+ | 2 0728- | 528 800- | 49 449+ | 2 3901+ |
| a_4 | 55 482+ | 35 606+ | 406- | 18 075- | 63 857- | 1110- |
| a_5 | 2 856- | 1 467- | | 9 651+ | 2 883+ | |
| October 4 | | | | | | |
| a_0 | 139.1414 530+ | 12.4018 464+ | 1.0020 1984+ | 253.0717 685+ | 24.3821 259- | 0.9590 3518+ |
| a_1 | 13.9149 991+ | 5.3123 358- | 0.0103 5770+ | 14.6525 762+ | 0.4568 559- | 0.0154 9242- |
| a_2 | 1278 003- | 4125 119- | 12 9258- | 1965 825- | 7134 756+ | 3 1519+ |
| a_3 | 159 165+ | 533 834+ | 2 2471- | 506 725- | 176 091- | 1 9325+ |
| a_4 | 40 494+ | 28 483+ | 743+ | 32 034+ | 48 498- | 1394- |
| a_5 | 4 073- | 1 495- | | 5 775+ | 4 733+ | |
| October 5 | | | | | | |
| a_0 | 152.9482 105+ | 6.7330 807+ | 1.0108 6770+ | 267.4808 706+ | 24.1474 917- | 0.9440 3727+ |
| a_1 | 13.7213 089+ | 5.9665 649- | 0.0071 2817+ | 14.1230 885+ | 0.9002 349+ | 0.0143 3806- |
| a_2 | 598 309- | 2367 634- | 19 1809- | 3236 113- | 6362 950+ | 8 1146+ |
| a_3 | 280 204+ | 632 472+ | 1 9468- | 324 095- | 323 011- | 1 3674+ |
| a_4 | 19 951+ | 21 266+ | 2052+ | 60 471+ | 23 982- | 1346- |
| a_5 | 4 392- | 2 083- | | 24- | 4 229+ | |
| October 6 | | | | | | |
| a_0 | 166.6392 648+ | 0.5949 178+ | 1.0159 0362+ | 281.2539 829+ | 22.6452 383- | 0.9306 3395+ |
| a_1 | 13.6914 925+ | 6.2428 866- | 0.0027 9014+ | 13.4028 098+ | 2.0684 411+ | 0.0123 5876- |
| a_2 | 318 078+ | 363 438- | 23 7623- | 3846 038- | 5292 343+ | 11 4157+ |
| a_3 | 315 908+ | 696 146+ | 1 1041- | 84 387- | 377 684- | 8263+ |
| a_4 | 2 029- | 10 947+ | 2968+ | 58 877+ | 2 631- | 1138- |
| a_5 | 4 718- | 3 059- | | 3 345- | 2 389+ | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| October 15 | | | | | | |
| a_0 | 294.2693 035 + | 20.0853 556 - | 0.9194 8800 + | 24.9799 324 + | 15.3195 779 + | 0.9173 4880 + |
| a_1 | 12.6301 643 + | 3.0137 444 + | 0.0098 7327 - | 12.0643 619 + | 4.0469 502 + | 0.0064 8780 + |
| a_2 | 3779 537 - | 4167 358 + | 13 2192 + | 3198 586 + | 2968 384 - | 4 2071 + |
| a_3 | 117 448 + | 365 341 - | 3710 + | 176 080 + | 379 305 - | 4278 - |
| a_4 | 41 160 + | 9 081 + | 891 - | 30 177 - | 8 559 - | 344 + |
| a_5 | 3 651 - | 612 + | | 3 189 - | 1 821 + | |
| October 16 | | | | | | |
| a_0 | 306.5370 099 + | 16.6904 401 - | 0.9109 6484 + | 37.3784 243 + | 19.0310 854 + | 0.9242 1797 + |
| a_1 | 11.9241 313 + | 3.7415 511 + | 0.0071 5378 - | 12.7432 395 + | 3.3369 701 + | 0.0072 1465 + |
| a_2 | 3216 791 - | 3131 899 + | 13 8045 + | 3513 705 + | 4139 432 - | 3 1293 + |
| a_3 | 246 179 + | 323 541 - | 155 + | 24 372 + | 394 619 - | 2872 - |
| a_4 | 22 619 + | 11 836 + | 663 - | 47 232 - | 646 + | 323 + |
| a_5 | 2 561 - | 493 - | | 1 757 - | 3 069 + | |
| October 17 | | | | | | |
| a_0 | 318.1660 858 + | 12.6669 188 - | 0.9051 8642 + | 50.4705 726 + | 21.9150 220 + | 0.9317 2006 + |
| a_1 | 11.3623 952 + | 4.2753 561 + | 0.0044 1475 - | 13.4335 251 + | 2.3924 914 + | 0.0077 6729 + |
| a_2 | 2368 149 - | 2227 327 + | 13 4592 + | 3285 704 + | 5288 648 - | 2 4579 + |
| a_3 | 311 698 + | 281 422 - | 2488 - | 179 787 - | 361 101 - | 1545 - |
| a_4 | 9 886 + | 9 150 + | 469 - | 57 013 - | 16 517 + | 202 + |
| a_5 | 1 406 - | 982 - | | 2 286 + | 3 520 + | |
| October 18 | | | | | | |
| a_0 | 329.3236 838 + | 8.1961 554 - | 0.9020 8803 + | 64.2092 167 + | 23.7445 421 + | 0.9397 1970 + |
| a_1 | 10.9855 269 + | 4.6395 637 + | 0.0018 1629 - | 14.0150 727 + | 1.2347 968 + | 0.0082 2060 + |
| a_2 | 1387 787 - | 1428 115 + | 12 4369 + | 2427 182 + | 6237 549 - | 2 1087 + |
| a_3 | 337 583 + | 254 715 - | 4357 - | 382 331 - | 260 503 - | 709 - |
| a_4 | 3 010 + | 4 101 + | 300 - | 45 118 - | 34 824 + | 16 - |
| a_5 | 704 - | 1 092 - | | 6 993 + | 2 354 + | |
| October 19 | | | | | | |
| a_0 | 340.2044 210 + | 3.4389 508 - | 0.9014 6886 + | 78.4249 622 + | 24.3332 515 + | 0.9481 4392 + |
| a_1 | 10.8100 969 + | 4.8498 670 + | 0.0005 2839 + | 14.3712 609 + | 0.0757 601 - | 0.0086 2045 + |
| a_2 | 363 998 - | 677 645 + | 10 9548 + | 1079 692 + | 6786 544 - | 1 8776 + |
| a_3 | 342 689 + | 249 163 - | 5554 - | 492 117 - | 99 018 - | 759 - |
| a_4 | 358 - | 1 454 - | 142 - | 8 169 - | 46 807 + | 301 - |
| a_5 | 542 - | 989 - | | 8 319 + | 46 - | |
| October 20 | | | | | | |
| a_0 | 351.0122 970 + | 1.4535 203 + | 0.9030 3577 + | 92.8549 957 + | 23.5736 113 + | 0.9569 4154 + |
| a_1 | 10.8396 892 + | 4.9095 718 + | 0.0025 4704 + | 14.4404 524 + | 1.4440 765 - | 0.0089 6118 + |
| a_2 | 656 511 + | 88 469 - | 9 2081 + | 362 286 - | 6803 286 - | 1 4604 + |
| a_3 | 335 643 + | 264 696 - | 6122 - | 443 477 - | 86 638 + | 1969 - |
| a_4 | 2 926 - | 6 497 - | 12 + | 34 864 + | 46 054 + | 597 - |
| a_5 | 899 - | 718 - | | 4 922 + | 2 013 - | |
| October 21 | | | | | | |
| a_0 | 1.9508 191 + | 6.3270 540 + | 0.9064 4252 + | 107.2188 503 + | 21.4622 740 + | 0.9660 2310 + |
| a_1 | 11.0700 631 + | 4.8095 117 + | 0.0042 0551 + | 14.2513 530 + | 2.7613 278 - | 0.0091 7028 + |
| a_2 | 1636 895 + | 928 745 - | 7 3836 + | 1434 374 - | 6287 277 - | 5043 + |
| a_3 | 314 493 + | 297 564 - | 6067 - | 257 566 - | 250 508 + | 4396 - |
| a_4 | 7 320 - | 10 225 - | 159 + | 59 125 + | 35 306 + | 824 - |
| a_5 | 1 714 - | 220 - | | 20 + | 2 352 - | |
| October 22 | | | | | | |
| a_0 | 13.2151 177 + | 11.0128 902 + | 0.9113 2731 + | 121.3069 238 + | 18.1005 647 + | 0.9751 9160 + |
| a_1 | 11.4880 039 + | 4.5302 944 + | 0.0055 0660 + | 13.9108 648 + | 3.9306 837 - | 0.0091 0624 + |
| a_2 | 2519 295 + | 1885 016 - | 5 6627 + | 1852 299 - | 5347 478 - | 1 3108 - |
| a_3 | 267 520 + | 340 164 - | 5417 - | 22 629 - | 368 709 + | 7767 - |
| a_4 | 15 974 - | 11 504 - | 279 + | 58 091 + | 23 279 + | 880 - |
| a_5 | 2 734 - | 617 + | | 3 002 - | 1 440 - | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| October 31 | | | November 8 | | | |
| a_0 | 135-0358 047+ | 13-6741 881+ | 0-9840 8030+ | 246-9057 755+ | 23-9141 313- | 0-9715 5482+ |
| a_1 | 13-5553 504+ | 4-8809 734- | 0-0085 7583+ | 15-0270 249+ | 1-0383 062- | 0-0131 6198- |
| a_2 | 1601 782- | 4116 040- | 4 1616- | 929 952- | 7465 858+ | 6 3951- |
| a_3 | 179 209+ | 448 018+ | 1 1389- | 647 785- | 44 455- | 2 0385+ |
| a_4 | 42 353+ | 16 265+ | 656- | 6 062+ | 69 230- | 218- |
| a_5 | 3 787- | 403- | | 10 553+ | 4 337+ | |
| November 1 | | | November 9 | | | |
| a_0 | 148-4527 543+ | 8-4279 986+ | 0-9921 1953+ | 261-7766 883+ | 24-2167 865- | 0-9579 5500+ |
| a_1 | 13-3038 042+ | 5-5634 711- | 0-0073 7554+ | 14-6543 924+ | 0-4160 070+ | 0-0138 3823- |
| a_2 | 847 935- | 2678 362- | 7 9547- | 2731 255- | 6960 689+ | 4279- |
| a_3 | 310 739+ | 509 241+ | 1 4121- | 521 904- | 277 090- | 1 9411+ |
| a_4 | 23 315+ | 14 658+ | 97- | 59 934+ | 46 080- | 777- |
| a_5 | 3 750- | 64- | | 3 494+ | 5 915+ | |
| November 2 | | | November 10 | | | |
| a_0 | 161-7047 952+ | 2-6490 749+ | 0-9985 5741+ | 276-1121 075+ | 23-1364 361- | 0-9442 6032+ |
| a_1 | 13-2348 889+ | 5-9405 404- | 0-0053 5703+ | 13-9772 835+ | 1-7095 417+ | 0-0133 7261- |
| a_2 | 186 684+ | 1063 257- | 12 2241- | 3902 668- | 5912 216+ | 4 9212+ |
| a_3 | 366 299+ | 566 859+ | 1 4569- | 250 817- | 403 061- | 1 6214+ |
| a_4 | 4 765+ | 14 777+ | 729+ | 75 786+ | 15 631- | 1030- |
| a_5 | 4 095- | 707- | | 2 797- | 4 434+ | |
| November 3 | | | November 11 | | | |
| a_0 | 174-9950 495+ | 3-3396 982- | 1-0025 5365+ | 289-6813 413+ | 20-8770 987- | 0-9315 3166+ |
| a_1 | 13-3819 730+ | 5-9775 784- | 0-0025 0435+ | 13-1504 180+ | 2-7670 284+ | 0-0119 4321- |
| a_2 | 1273 215+ | 718 965+ | 16 1308- | 4228 641- | 4653 583+ | 9 1661+ |
| a_3 | 343 943+ | 618 013+ | 1 1605- | 23 162+ | 422 658- | 1 2037+ |
| a_4 | 15 693- | 11 562+ | 1583+ | 60 043+ | 6 510+ | 1056- |
| a_5 | 4 970- | 2 234- | | 4 763- | 1 937+ | |
| November 4 | | | November 12 | | | |
| a_0 | 188-5366 719+ | 9-1826 460- | 1-0033 4470+ | 302-4167 392+ | 17-6861 330- | 0-9206 1486+ |
| a_1 | 13-7310 368+ | 5-6448 758- | 0-0010 0656- | 12-3332 747+ | 3-5745 181+ | 0-0097 9115- |
| a_2 | 2161 060+ | 2620 039+ | 18 6462- | 3846 645- | 3443 983+ | 12 1462+ |
| a_3 | 231 449+ | 640 838+ | 5118- | 216 203+ | 378 358- | 7789+ |
| a_4 | 41 341- | 391+ | 2119+ | 35 512+ | 15 801+ | 962- |
| a_5 | 5 113- | 4 141- | | 3 810- | 19+ | |
| November 5 | | | November 13 | | | |
| a_0 | 202-5023 142+ | 14-5018 091- | 1-0004 4353+ | 314-3901 399+ | 13-8034 705- | 0-9121 0660+ |
| a_1 | 14-2135 945+ | 4-9305 319- | 0-0048 0447- | 11-6411 078+ | 4-1561 355+ | 0-0071 6672- |
| a_2 | 2555 961+ | 4503 405+ | 18 9114- | 3023 081- | 2403 844+ | 13 9099+ |
| a_3 | 16 732+ | 600 382+ | 3557+ | 321 065+ | 315 568- | 3940+ |
| a_4 | 68 721- | 20 926- | 2082+ | 16 449+ | 15 546+ | 831- |
| a_5 | 2 097- | 5 284- | | 2 193- | 993- | |
| November 6 | | | November 14 | | | |
| a_0 | 216-9660 961+ | 18-9245 833- | 0-9938 0430+ | 325-7624 717+ | 9-4370 520- | 0-9063 6196+ |
| a_1 | 14-7012 769+ | 3-8607 471- | 0-0083 9670- | 11-1382 956+ | 4-5479 557+ | 0-0042 9979- |
| a_2 | 2172 665+ | 6125 988+ | 16 6134- | 1983 101- | 1540 457+ | 14 5968+ |
| a_3 | 275 169- | 464 588+ | 1 2030+ | 365 607+ | 263 542- | 621+ |
| a_4 | 80 475- | 48 553- | 1488+ | 5 693+ | 10 376+ | 711- |
| a_5 | 4 923+ | 4 054- | | 1 022- | 1 376- | |
| November 7 | | | November 15 | | | |
| a_0 | 231-8495 675+ | 22-1315 335- | 0-9838 8143+ | 336-7394 851+ | 4-7605 048- | 0-9035 2096+ |
| a_1 | 15-0235 379+ | 2-5176 167- | 0-0112 9895- | 10-8531 245+ | 4-7804 469+ | 0-0013 9022- |
| a_2 | 913 780+ | 7187 776+ | 12 1388- | 862 315- | 798 307+ | 14 3597+ |
| a_3 | 544 296- | 232 114+ | 1 8015+ | 378 441+ | 235 833- | 2217- |
| a_4 | 54 127- | 69 662- | 608+ | 809+ | 3 381+ | 613- |
| a_5 | 11 343+ | 38- | | 537- | 1 429- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|-------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| November 16 | | | November 24 | | | |
| a_0 | 347.5442 494+ | 0.0763 847+ | 0.9035 3840+ | 89.2340 182+ | 23.7669 567+ | 0.9610 8158+ |
| a_1 | 10.7942 487+ | 4.8699 966+ | 0.0013 9068+ | 14.6898 297+ | 1.1517 565- | 0.0076 5634+ |
| a_2 | 272 514+ | 96 786+ | 13 3296+ | 248 176- | 7039 014- | 4 6417- |
| a_3 | 376 195+ | 236 515- | 4669- | 569 644- | 71 780+ | 2450- |
| a_4 | 1 666- | 3 868- | 524- | 30 357+ | 58 428+ | 502+ |
| a_5 | 720- | 1 280- | | 7 448+ | 2 757- | |
| November 17 | | | November 25 | | | |
| a_0 | 358.4031 304+ | 4.9318 936+ | 0.9062 1012+ | 103.8458 465+ | 21.9240 440+ | 0.9682 5427+ |
| a_1 | 10.9605 828+ | 4.8162 124+ | 0.0038 9556+ | 14.4851 609+ | 2.5160 337- | 0.0066 7462+ |
| a_2 | 1383 923+ | 648 797- | 11 6177+ | 1700 507- | 6500 827- | 5 0835- |
| a_3 | 361 847+ | 264 552- | 6775- | 377 417- | 277 182+ | 406- |
| a_4 | 5 074- | 10 429- | 420- | 67 529+ | 43 540+ | 233+ |
| a_5 | 1 539- | 873- | | 911+ | 4 028- | |
| November 18 | | | November 26 | | | |
| a_0 | 9.5376 289+ | 9.6556 408+ | 0.9111 9549+ | 118.1300 590+ | 18.7895 970+ | 0.9744 1882+ |
| a_1 | 11.3431 209+ | 4.6024 802+ | 0.0059 9901+ | 14.0592 968+ | 3.7176 414- | 0.0056 5509+ |
| a_2 | 2423 629+ | 1513 797- | 9 3374+ | 2418 708- | 5448 410- | 5 0754- |
| a_3 | 325 399+ | 314 494- | 8474- | 100 718- | 411 611+ | 529+ |
| a_4 | 12 705- | 15 049- | 274- | 70 495+ | 22 766+ | 94- |
| a_5 | 2 862- | 17- | | 3 458- | 3 009- | |
| November 19 | | | November 27 | | | |
| a_0 | 21.1540 960+ | 14.0737 853+ | 0.9180 4077+ | 131.9441 170+ | 14.5702 515+ | 0.9795 7072+ |
| a_1 | 11.9189 524+ | 4.1993 462+ | 0.0076 0130+ | 13.5718 078+ | 4.6762 360- | 0.0046 5211+ |
| a_2 | 3294 914+ | 2547 790- | 6 6370+ | 2332 646- | 4107 062- | 4 9817- |
| a_3 | 245 323+ | 373 993- | 9590- | 146 071+ | 473 599+ | 120+ |
| a_4 | 27 387- | 15 425- | 72- | 52 050+ | 7 746+ | 374- |
| a_5 | 4 025- | 1 477+ | | 4 428- | 1 218- | |
| November 20 | | | November 28 | | | |
| a_0 | 33.4239 309+ | 17.9795 584+ | 0.9262 0915+ | 145.3020 294+ | 9.5313 220+ | 0.9837 2210+ |
| a_1 | 12.6385 658+ | 3.5721 614+ | 0.0086 3811+ | 13.1677 064+ | 5.3530 779- | 0.0036 4434+ |
| a_2 | 3826 129+ | 3747 554- | 3 7244+ | 1626 461- | 2651 915- | 5 1745- |
| a_3 | 95 925+ | 419 809- | 9888- | 310 293+ | 493 169+ | 1438- |
| a_4 | 48 707- | 8 104- | 174+ | 29 654+ | 2 011+ | 507- |
| a_5 | 3 424- | 3 426+ | | 3 839- | 113+ | |
| November 21 | | | November 29 | | | |
| a_0 | 46.4494 890+ | 21.1345 158+ | 0.9351 2257+ | 158.3407 005+ | 3.9625 818+ | 0.9868 2954+ |
| a_1 | 13.4113 795+ | 2.6951 810+ | 0.0090 9334+ | 12.9454 445+ | 5.7346 492- | 0.0025 4596+ |
| a_2 | 3787 183+ | 5021 262- | 8703+ | 556 024- | 1159 150- | 5 9077- |
| a_3 | 130 767- | 417 216- | 9180- | 390 710+ | 502 570+ | 3541- |
| a_4 | 67 453- | 9 580+ | 420+ | 10 709+ | 3 012+ | 426- |
| a_5 | 703+ | 4 793+ | | 3 479- | 511+ | |
| November 22 | | | November 30 | | | |
| a_0 | 60.2198 352+ | 23.2872 863+ | 0.9442 1535+ | 171.2703 366+ | 1.8373 732- | 0.9887 4506+ |
| a_1 | 14.1029 638+ | 1.5719 914+ | 0.0090 0883+ | 12.9539 963+ | 5.8142 487- | 0.0012 4112+ |
| a_2 | 2997 164+ | 6167 340- | 1 6262- | 645 602+ | 371 812+ | 7 2162- |
| a_3 | 389 916- | 331 455- | 7465- | 398 444+ | 519 365+ | 5311- |
| a_4 | 64 115- | 34 664+ | 595+ | 6 395- | 6 016+ | 122- |
| a_5 | 7 216+ | 3 987+ | | 4 024- | 120- | |
| November 23 | | | December 1 | | | |
| a_0 | 74.5778 338+ | 24.2132 633+ | 0.9529 9285+ | 184.3276 955+ | 7.5619 147- | 0.9892 1024+ |
| a_1 | 14.5633 875+ | 0.2549 422+ | 0.0084 8347+ | 13.1980 788+ | 5.5817 325- | 0.0003 6634- |
| a_2 | 1515 217+ | 6913 752- | 3 5075- | 1762 286+ | 1964 859+ | 8 8684- |
| a_3 | 572 313- | 154 768- | 5032- | 332 114+ | 541 301+ | 5830- |
| a_4 | 25 637- | 55 302+ | 632+ | 26 695- | 5 795+ | 340+ |
| a_5 | 10 703+ | 731+ | | 4 971- | 1 725- | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| December 2 | | | December 10 | | | |
| a_0 | 197.7320 477+ | 12.8926 242- | 0.9879 0216+ | 310.0761 149+ | 15.1615 712- | 0.9193 4768+ |
| a_1 | 13.6370 073+ | 5.0249 175- | 0.0023 0131- | 12.0292 723+ | 4.0293 094+ | 0.0087 2461- |
| a_2 | 2548 558+ | 3606 286+ | 10 3989- | 3563 233- | 2766 412+ | 9 4762+ |
| a_3 | 176 002+ | 546 033+ | 4449- | 260 472+ | 374 330- | 1 0178+ |
| a_4 | 52 761- | 2 799- | 818+ | 29 034+ | 17 469+ | 703- |
| a_5 | 4 454- | 3 828- | | 3 259- | 236- | |
| December 3 | | | December 11 | | | |
| a_0 | 211.6357 896+ | 17.5029 725- | 0.9845 2466+ | 321.7776 886+ | 10.8913 302- | 0.9116 6544+ |
| a_1 | 14.1761 933+ | 4.1428 851- | 0.0044 8179- | 11.4047 530+ | 4.4771 615+ | 0.0065 5215- |
| a_2 | 2715 170+ | 5189 208+ | 11 2329- | 2640 198- | 1745 830+ | 12 1070+ |
| a_3 | 76 987- | 495 897+ | 1102- | 344 920+ | 307 331- | 7350+ |
| a_4 | 76 981- | 22 675- | 1140+ | 12 841+ | 15 985+ | 731- |
| a_5 | 48- | 5 044- | | 1 707- | 1 115- | |
| December 4 | | | December 12 | | | |
| a_0 | 226.0680 983+ | 21.0801 191- | 0.9789 1995+ | 332.9540 273+ | 6.2688 317- | 0.9063 9018+ |
| a_1 | 14.6653 232+ | 2.9678 649- | 0.0067 1580- | 10.9844 733+ | 4.7399 644+ | 0.0039 3950- |
| a_2 | 2021 772+ | 6490 213+ | 10 8785- | 1545 437- | 908 568+ | 13 8732+ |
| a_3 | 381 100- | 355 647+ | 3556+ | 379 782+ | 254 751- | 4422+ |
| a_4 | 77 665- | 49 251- | 1180+ | 4 541+ | 10 235+ | 730- |
| a_5 | 7 590+ | 3 524- | | 753- | 1 465- | |
| December 5 | | | December 13 | | | |
| a_0 | 240.8904 813+ | 23.3686 756- | 0.9711 6366+ | 343.8223 139+ | 1.4626 086- | 0.9038 7493+ |
| a_1 | 14.9280 818+ | 1.5845 860- | 0.0087 3758- | 10.7907 607+ | 4.8486 143+ | 0.0010 6141- |
| a_2 | 488 766+ | 7226 309+ | 9 1115- | 386 348- | 191 059+ | 14 7614+ |
| a_3 | 613 359- | 125 813+ | 8358+ | 390 561+ | 228 505- | 1506+ |
| a_4 | 36 956- | 67 553- | 927+ | 1 013+ | 2 806+ | 735- |
| a_5 | 12 191+ | 756+ | | 514- | 1 542- | |
| December 6 | | | December 14 | | | |
| a_0 | 255.8036 274+ | 24.2247 291- | 0.9616 0778+ | 354.6135 458+ | 3.3823 875+ | 0.9042 9737+ |
| a_1 | 14.8331 369+ | 0.1282 192- | 0.0102 7204- | 10.8308 072+ | 4.8186 261+ | 0.0019 0665+ |
| a_2 | 1450 703- | 7206 115+ | 6 0613- | 786 302+ | 493 060- | 14 7715+ |
| a_3 | 641 198- | 134 581- | 1 2102+ | 389 197+ | 232 625- | 1429- |
| a_4 | 27 079+ | 62 879- | 488+ | 1 316- | 5 019- | 757- |
| a_5 | 8 701+ | 4 768+ | | 988- | 1 417- | |
| December 7 | | | December 15 | | | |
| a_0 | 270.4311 521+ | 23.6516 060- | 0.9508 5551+ | 5.5616 725+ | 8.1278 014+ | 0.9076 5931+ |
| a_1 | 14.3658 104+ | 1.2498 626+ | 0.0111 0171- | 11.1038 050+ | 4.6475 111+ | 0.0047 8780+ |
| a_2 | 3124 825- | 6472 977+ | 2 1522- | 1936 141+ | 1235 253- | 13 8878+ |
| a_3 | 450 142- | 337 878- | 1 4042+ | 373 359+ | 266 597- | 4460- |
| a_4 | 70 561+ | 37 613- | 18+ | 6 033- | 12 317- | 784- |
| a_5 | 1 050+ | 5 661+ | | 2 179- | 954- | |
| December 8 | | | December 16 | | | |
| a_0 | 284.4466 268+ | 21.7914 287- | 0.9396 7918+ | 16.8956 062+ | 12.6238 004+ | 0.9137 8345+ |
| a_1 | 13.6345 462+ | 2.4308 781+ | 0.0111 1016- | 11.5995 359+ | 4.3150 789+ | 0.0074 0016+ |
| a_2 | 4041 678- | 5290 372+ | 2 0599+ | 2998 213+ | 2118 540- | 12 0793+ |
| a_3 | 160 273- | 432 704- | 1 4074+ | 326 486+ | 324 750- | 7617- |
| a_4 | 73 852+ | 8 653- | 359- | 16 940- | 17 446- | 779- |
| a_5 | 3 935- | 3 861+ | | 3 847- | 153+ | |
| December 9 | | | December 17 | | | |
| a_0 | 297.6679 697+ | 18.8752 629- | 0.9289 1216+ | 28.8255 334+ | 16.6928 209+ | 0.9223 0758+ |
| a_1 | 12.8057 012+ | 3.3576 079+ | 0.0102 9036- | 12.2884 238+ | 3.7870 462+ | 0.0095 5633+ |
| a_2 | 4118 952- | 3978 929+ | 6 0591+ | 3837 444+ | 3195 995- | 9 3299+ |
| a_3 | 95 316+ | 430 069- | 1 2591+ | 219 730+ | 391 837- | 1 0772- |
| a_4 | 52 732+ | 10 509+ | 595- | 36 902- | 17 064- | 683- |
| a_5 | 4 655- | 1 469+ | | 4 873- | 2 157+ | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.

DAILY POLYNOMIAL COEFFICIENTS

| | Apparent Right Ascension | Apparent Declination | Horizontal Parallax | Apparent Right Ascension | Apparent Declination | Horizontal Parallax |
|-------------|-----------------------------|-------------------------|------------------------|-----------------------------|-------------------------|------------------------|
| December 18 | | | | | | |
| a_0 | 41.5154 970+ | 20.1195 933+ | 0.9326 8235+ | 155.3252 593+ | 5.2263 564+ | 0.9915 9179+ |
| a_1 | 13.1046 363+ | 3.0245 520+ | 0.0110 7180+ | 13.1413 271+ | 5.7453 054- | 0.0010 0250- |
| a_2 | 4226 216+ | 4452 312- | 5 6962+ | 1441 857- | 1263 494- | 9 7305- |
| a_3 | 24 591+ | 437 107- | 1 3560- | 361 344+ | 550 401+ | 7781+ |
| a_4 | 63 062- | 6 243- | 438- | 18 823+ | 8 026- | 99- |
| a_5 | 2 928- | 4 646+ | | 3 807- | 69+ | |
| December 19 | | | | | | |
| a_0 | 55.0386 150+ | 22.6550 439+ | 0.9441 8379+ | 168.3600 366+ | 0.5910 541- | 0.9896 9306+ |
| a_1 | 13.9305 752+ | 2.0027 849+ | 0.0117 8670+ | 12.9669 847+ | 5.8360 594- | 0.0027 1918- |
| a_2 | 3892 086+ | 5754 488- | 1 3786+ | 282 928- | 340 314+ | 7 4671- |
| a_3 | 253 263- | 414 941- | 1 5365- | 398 723+ | 519 214+ | 7311+ |
| a_4 | 79 388- | 17 962+ | 18- | 96+ | 7 229- | 465- |
| a_5 | 3 509+ | 5 909+ | | 3 512- | 453+ | |
| December 20 | | | | | | |
| a_0 | 69.3254 846+ | 24.0432 730+ | 0.9559 5452+ | 181.3382 592+ | 6.3418 383- | 0.9862 9563+ |
| a_1 | 14.6030 206+ | 0.7375 420+ | 0.0116 0072+ | 13.0282 977+ | 5.6148 982- | 0.0040 1191- |
| a_2 | 2691 204+ | 6832 234- | 3 2250- | 878 697+ | 1859 180+ | 5 5567- |
| a_3 | 531 686- | 285 144- | 1 5460- | 363 735+ | 494 468+ | 5371+ |
| a_4 | 60 743- | 49 003+ | 526+ | 17 362- | 4 540- | 589- |
| a_5 | 10 817+ | 3 934+ | | 3 976- | 177- | |
| December 21 | | | | | | |
| a_0 | 84.1394 644+ | 24.0743 708+ | 0.9670 8341+ | 194.4886 663+ | 11.7218 436- | 0.9817 7588+ |
| a_1 | 14.9628 674+ | 0.6928 853- | 0.0105 1298+ | 13.3042 250+ | 5.0966 284- | 0.0049 8569- |
| a_2 | 840 354+ | 7354 245- | 7 5312- | 1825 882+ | 3313 610+ | 4 2954- |
| a_3 | 666 013- | 52 391- | 1 3320- | 254 490+ | 473 702+ | 2952+ |
| a_4 | 3 076- | 69 141+ | 1052+ | 37 788- | 5 156- | 485- |
| a_5 | 11 679+ | 689- | | 4 126- | 1 631- | |
| December 22 | | | | | | |
| a_0 | 99.1206 263+ | 22.6476 672+ | 0.9767 2059+ | 207.9967 372+ | 16.4404 195- | 0.9763 8531+ |
| a_1 | 14.9357 362+ | 2.1521 436- | 0.0086 4927+ | 13.7285 731+ | 4.2946 755- | 0.0057 7565- |
| a_2 | 1059 099- | 7103 609- | 10 8862- | 2321 163+ | 4687 448+ | 3 6930- |
| a_3 | 565 129- | 215 140+ | 9017- | 63 329+ | 435 883+ | 975+ |
| a_4 | 57 117+ | 64 638+ | 1372+ | 59 777- | 13 473- | 225- |
| a_5 | 5 088+ | 4 468- | | 2 055- | 3 212- | |
| December 23 | | | | | | |
| a_0 | 113.9001 601+ | 19.8126 937+ | 0.9842 0478+ | 221.9575 762+ | 20.2244 303- | 0.9702 4786+ |
| a_1 | 14.5797 603+ | 3.4847 030- | 0.0062 5643+ | 14.1868 718+ | 3.2334 163- | 0.0064 9401- |
| a_2 | 2361 098- | 6115 224- | 12 7691- | 2131 758+ | 5882 027+ | 3 5257- |
| a_3 | 289 811- | 428 613+ | 3412- | 193 324- | 349 715+ | 72+ |
| a_4 | 81 250+ | 41 016+ | 1349+ | 71 213- | 30 338- | 94+ |
| a_5 | 2 086- | 5 088- | | 3 220+ | 3 544- | |
| December 24 | | | | | | |
| a_0 | 128.2227 461+ | 15.7629 224+ | 0.9891 6366+ | 236.3314 921+ | 22.8380 606- | 0.9634 0294+ |
| a_1 | 14.0520 512+ | 4.5652 996- | 0.0036 5426+ | 14.5283 572+ | 1.9660 013- | 0.0071 9321- |
| a_2 | 2764 167- | 4634 240- | 12 9944- | 1156 825+ | 6713 568+ | 3 4389- |
| a_3 | 12 566+ | 542 719+ | 2075+ | 442 856- | 194 077+ | 477+ |
| a_4 | 68 943+ | 15 075+ | 989+ | 54 215- | 49 014- | 374+ |
| a_5 | 5 071- | 3 411- | | 8 869+ | 1 534- | |
| December 25 | | | | | | |
| a_0 | 142.0060 245+ | 10.7896 371+ | 0.9915 4912+ | | | |
| a_1 | 13.5280 299+ | 5.3250 050- | 0.0011 5721+ | | | |
| a_2 | 2363 646- | 2949 716- | 11 7953- | | | |
| a_3 | 237 728+ | 570 100+ | 6060+ | | | |
| a_4 | 42 765+ | 1 818- | 439+ | | | |
| a_5 | 4 798- | 1 324- | | | | |

Formula: Quantity in degrees = $a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$
 where p is the fraction of a day from 0^h TT.