

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 2017 January 21^d 13^h 23^m 48^s 32 UT1, using an assumed value of $\Delta T = 68^s$.

$$\text{TT} = 13^{\text{h}} 24^{\text{m}} 56^{\text{s}} 32, \text{ hence } p = 0.558\ 985\ 19$$

	right ascension	declination	horizontal parallax
b_1	$-0.000\ 1007$	$+0.000\ 0041$	$-0.000\ 006\ 38$
b_2	$-0.001\ 5482$	$+0.000\ 0861$	$-0.000\ 017\ 32$
b_3	$+0.019\ 6655$	$+0.018\ 0868$	$+0.001\ 451\ 80$
b_4	$+0.103\ 5998$	$+0.240\ 2270$	$-0.002\ 073\ 20$
b_5	$+11.680\ 2195$	$-3.011\ 7635$	$\pi = +0.902\ 834\ 41$
b_6	$\alpha = 228.398\ 7701$ $= 15^{\text{h}} 13^{\text{m}} 35^{\text{s}} 705$	$\delta = -12.732\ 3953$ $= -12^\circ 43' 56'' 62$	$= 54' 10'' 204$

DAILY POLYNOMIAL COEFFICIENTS

	Apparent Right Ascension	Apparent Declination	Horizontal Parallax	Apparent Right Ascension	Apparent Declination	Horizontal Parallax
	January 0			January 8		
a_0	300.7243 311+	17.4176 690-	0.9262 5193+	45.5050 431+	12.0883 931+	0.9973 5375+
a_1	13.0358 791+	1.6577 838+	0.0073 9426+	14.2957 922+	3.6584 793+	0.0071 0656+
a_2	226 619-	4338 566+	3 1775+	3081 958+	3355 231-	10 8594-
a_3	153 380-	103 749-	1282-	32 888+	491 747-	1 6417-
a_4	20 501+	21 176-	239+	54 123-	260-	424+
a_5	1 519+	887+		3 117-	4 653+	
	January 1			January 9		
a_0	313.7244 123+	15.3384 325-	0.9339 5350+	60.1065 960+	15.3626 140+	1.0032 1444+
a_1	12.9534 995+	2.4863 451+	0.0080 0086+	14.8988 488+	2.8421 325+	0.0044 5914+
a_2	548 578-	3909 159+	2 9295+	2824 515+	4785 352-	15 5001-
a_3	57 012-	179 572-	298-	211 761-	445 793-	1 4718-
a_4	28 006+	16 527-	28+	71 109-	24 020+	1399+
a_5	83+	908+		2 141+	5 536+	
	January 2			January 10		
a_0	326.6201 617+	12.4806 907-	0.9422 4460+	75.2598 235+	17.6845 876+	1.0059 9039+
a_1	12.8379 230+	3.2081 480+	0.0085 7893+	15.3728 577+	1.7636 977+	0.0009 7360+
a_2	550 780-	3280 380+	2 8477+	1784 084+	5923 043-	19 0528-
a_3	55 241+	236 831-	169-	471 157-	295 691-	8990-
a_4	28 208+	11 860-	261-	59 760-	53 131+	2164+
a_5	943-	497+		8 654+	3 217+	
	January 3			January 11		
a_0	339.4112 573+	8.9693 241-	0.9511 0400+	90.7588 633+	18.8320 467+	1.0049 9045+
a_1	12.7551 503+	3.7886 787+	0.0091 3296+	15.5687 524+	0.5132 374+	0.0030 1999-
a_2	225 256-	2503 699+	2 6306+	99 017+	6459 104-	20 4453-
a_3	158 285+	279 620-	1212-	622 648-	53 689-	117-
a_4	23 374+	9 376-	579-	13 574-	69 601+	2365+
a_5	1 538-	67-		10 480+	1 570-	
	January 4			January 12		
a_0	352.1618 941+	4.9591 819-	0.9604 8210+	106.2749 432+	18.7008 078+	0.9999 4841+
a_1	12.7661 645+	4.2017 478+	0.0095 9952+	15.4015 666+	0.7676 391-	0.0070 1783-
a_2	374 469+	1607 889+	1 9108+	1745 278-	6218 431-	19 0753-
a_3	236 086+	318 023-	3557-	574 803-	206 893+	9540+
a_4	15 738+	9 844-	857-	40 839+	60 606+	1900+
a_5	2 056-	467-		5 660+	5 319-	
	January 5			January 13		
a_0	4.9904 822+	0.6294 786-	0.9702 2856+	121.4491 515+	17.3375 435+	0.9911 3744+
a_1	12.9171 501+	4.4237 476+	0.0098 4066+	14.8992 280+	1.9276 751-	0.0104 7066-
a_2	1156 617+	590 046+	3255+	3168 151-	5287 507-	15 1011-
a_3	278 000+	362 006-	7047-	358 484-	395 879+	1 7221+
a_4	5 627+	12 446-	994-	68 499+	32 630+	994+
a_5	2 871-	376-		787-	5 691-	
	January 6			January 14		
a_0	18.0513 696+	3.8157 908+	0.9800 2138+	136.0024 872+	14.9233 995+	0.9793 3881+
a_1	13.2326 875+	4.4279 898+	0.0096 5456+	14.1850 550+	2.8562 039-	0.0129 3454-
a_2	1995 676+	574 464-	2 3808-	3840 708-	3961 075-	9 3684-
a_3	271 147+	415 014-	1 1123-	94 292-	470 630+	2 1153+
a_4	8 674-	14 716-	872-	62 959+	3 644+	32+
a_5	4 016-	534+		4 093-	3 639-	
	January 7			January 15		
a_0	31.5094 705+	8.1434 146+	0.9893 1791+	149.7999 288+	11.7181 516+	0.9656 7927+
a_1	13.7076 889+	4.1829 755+	0.0088 0976+	13.4117 627+	3.5075 893-	0.0141 7240-
a_2	2716 846+	1902 514-	6 2262-	3786 897-	2563 687-	3 0253-
a_3	195 940+	467 461-	1 4734-	116 536+	450 177+	2 1175+
a_4	29 244-	12 399-	398-	41 551+	14 360-	683-
a_5	4 705-	2 404+		4 134-	1 255-	

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						
a_0	162.8483 971+	7.9976 497+	0.9514 0926+	257.9794 297+	17.9234 786-	0.9076 2377+
a_1	12.7038 991+	3.8916 433-	0.0141 6960-	12.5314 130+	1.2733 758-	0.0048 6331+
a_2	3229 343-	1311 806-	2 9057+	1710 577+	3922 019+	10 2554+
a_3	242 108+	381 119+	1 8335+	52 919-	162 263+	7790-
a_4	20 717+	20 240-	1052-	25 736-	7 966-	290-
a_5	2 870-	336+		1 104+	1 506-	
January 17						
a_0	175.2553 574+	4.0109 474+	0.9377 0307+	270.6741 454+	18.7893 733-	0.9134 3181+
a_1	12.1375 162+	4.0475 958-	0.0130 8052-	12.8479 120+	0.4442 320-	0.0066 6905+
a_2	2407 390-	286 481-	7 7723+	1408 465+	4345 923+	7 7498+
a_3	296 962+	303 945+	1 4054+	144 046-	115 446+	8967-
a_4	6 542+	18 252-	1135-	20 090-	15 727-	107-
a_5	1 682-	1 045+		2 469+	1 330-	
January 18						
a_0	187.1823 167+	0.0366 227-	0.9255 2897+	283.6467 373+	18.7891 741-	0.9207 8511+
a_1	11.7469 031+	4.0204 865-	0.0111 4985-	13.0795 906+	0.4526 314+	0.0079 4574+
a_2	1494 043-	526 320+	11 3100+	880 543+	4584 576+	5 0028+
a_3	306 705+	241 465+	9480+	199 355-	39 637+	9403-
a_4	1 650-	12 850-	1051-	7 301-	22 545-	119+
a_5	1 006-	1 165+		3 108+	636-	
January 19						
a_0	198.8102 204+	3.9814 992-	0.9155 9442+	296.7940 273+	17.8764 395-	0.9291 3830+
a_1	11.5389 433+	3.8473 408-	0.0086 4549-	13.1945 254+	1.3721 027+	0.0086 6897+
a_2	593 862-	1185 277+	13 5279+	269 816+	4561 859+	2 2603+
a_3	290 172+	201 597+	5269+	197 792-	56 385-	8921-
a_4	6 519-	6 932-	905-	8 706+	25 717-	350+
a_5	802-	961+		2 560+	269+	
January 20						
a_0	210.3180 627+	7.6907 498-	0.9083 4536+	309.9968 818+	16.0563 344-	0.9379 4758+
a_1	11.5042 142+	3.5520 992-	0.0058 1804-	13.1939 120+	2.2574 071+	0.0088 6742+
a_2	229 537+	1758 093+	14 5701+	245 695-	4241 111+	2005-
a_3	256 039+	183 251+	1655+	138 148-	156 177-	7492-
a_4	10 456-	2 065-	760-	21 688+	24 209-	527+
a_5	884-	570+		1 182+	948+	
January 21						
a_0	221.8697 005+	11.0488 641-	0.9039 9330+	323.1546 964+	13.3927 599-	0.9467 2531+
a_1	11.6223 087+	3.1460 468-	0.0028 8473-	13.1125 927+	3.0495 672+	0.0086 2370+
a_2	926 071+	2301 167+	14 6148+	518 214-	3636 842+	2 1298-
a_3	205 309+	180 387+	1375-	40 401-	243 407-	5336-
a_4	14 919-	838+	638-	27 476+	19 264-	585+
a_5	1 007-	41+		246-	1 153+	
January 22						
a_0	233.6035 547+	13.9466 676-	0.9025 4992+	336.2141 505+	10.0056 602-	0.9550 8853+
a_1	11.8626 448+	2.6313 422-	0.0000 2854-	13.0076 956+	3.6967 844+	0.0080 6111+
a_2	1442 389+	2847 770+	13 8227+	477 055-	2802 589+	3 3823-
a_3	135 653+	183 788+	3925-	66 460+	309 052-	2943-
a_4	20 129-	1 065+	535-	26 040+	13 367-	488+
a_5	865-	584-		1 235-	934+	
January 23						
a_0	245.6219 043+	16.2748 059-	0.9038 5906+	349.1832 671+	6.0607 655-	0.9627 8686+
a_1	12.1833 353+	2.0065 184-	0.0025 9687+	12.9420 203+	4.1597 063+	0.0073 1590+
a_2	1719 888+	3399 677+	12 3279+	133 804-	1804 575+	3 9800-
a_3	46 896+	181 868+	6068-	157 912+	353 401-	955-
a_4	24 714-	1 909-	427-	19 760+	8 683-	248+
a_5	169-	1 179-		1 827-	537+	

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 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	2.1294 915+	1.7567 564-	0.9696 9769+	115.5883 826+	17.9768 749+	0.9843 5157+
a_1	12.9696 228+	4.4113 958+	0.0065 0117+	14.7994 195+	1.4351 289-	0.0056 2128-
a_2	440 224+	697 625+	4 1276-	1937 564-	5534 794-	12 3020-
a_3	218 378+	382 918-	46+	396 707-	258 522+	1786+
a_4	10 653+	6 110-	69-	39 958+	42 291+	1318+
a_5	2 335-	262+		2 537+	3 984-	
	February 2			February 10		
a_0	15.1658 062+	2.6855 253+	0.9757 8587+	130.1586 244+	16.0179 495+	0.9775 3112+
a_1	13.1262 739+	4.4337 327+	0.0056 7427+	14.3101 418+	2.4496 066-	0.0079 7534-
a_2	1135 931+	485 198-	4 1641-	2862 666-	4545 428-	10 9815-
a_3	237 277+	404 652-	253-	213 714-	387 862+	7158+
a_4	977-	5 016-	364-	51 948+	21 636+	1122+
a_5	2 965-	397+		1 341-	3 921-	
	February 3			February 11		
a_0	28.4290 067+	7.0298 111+	0.9810 3756+	144.1661 890+	13.1543 577+	0.9685 4043+
a_1	13.4227 693+	4.2134 904+	0.0048 1926+	13.6936 015+	3.2356 383-	0.0099 1197-
a_2	1812 224+	1725 319-	4 4639-	3205 661-	3291 278-	8 1743-
a_3	203 439+	420 319-	1765-	20 314-	435 942+	1 1702+
a_4	15 979-	3 289-	537-	44 295+	1 750+	680+
a_5	3 482-	1 135+		3 007-	2 591-	
	February 4			February 12		
a_0	42.0513 962+	11.0285 221+	0.9853 8741+	157.5413 218+	9.6331 018+	0.9579 3484+
a_1	13.8381 140+	3.7415 837+	0.0038 5203+	13.0625 899+	3.7637 047-	0.0111 6861-
a_2	2291 756+	2994 684-	5 3142-	3030 971-	1998 843-	4 2722-
a_3	105 016+	421 424-	3985-	126 862+	417 916+	1 4417+
a_4	34 037-	2 267+	505-	28 764+	11 117-	158+
a_5	3 006-	2 374+		2 847-	1 059-	
	February 5			February 13		
a_0	56.1254 831+	14.4289 592+	0.9886 6312+	170.3160 924+	5.7100 868+	0.9464 8475+
a_1	14.3128 551+	3.0183 147+	0.0026 4940+	12.5045 372+	4.0430 735-	0.0115 8426-
a_2	2372 378+	4221 571-	6 8044-	2506 284-	822 357-	1336+
a_3	59 704-	388 030-	6080-	213 908+	363 513+	1 5006+
a_4	50 040-	14 435+	237-	14 456+	16 198-	289-
a_5	446-	3 432+		2 024-	69+	
	February 6			February 14		
a_0	70.6645 569+	16.9881 005+	0.9905 6891+	182.5926 353+	1.6195 159+	0.9350 6101+
a_1	14.7491 853+	2.0650 812+	0.0010 9661+	12.0722 243+	4.1049 352-	0.0111 1896-
a_2	1888 514+	5264 618-	8 7561-	1798 043-	171 710+	4 4527+
a_3	261 853-	296 149-	7074-	251 921+	299 765+	1 3797+
a_4	52 607-	32 359+	228+	4 451+	15 655-	582-
a_5	3 927+	3 151+		1 287-	675+	
	February 7			February 15		
a_0	85.5715 404+	18.5006 560+	0.9907 2146+	194.5105 638+	2.4397 698-	0.9245 1945+
a_1	15.0292 567+	0.9378 297+	0.0008 5771-	11.7893 294+	3.9865 879-	0.0098 3785-
a_2	826 760+	5927 296-	10 7252-	1028 422-	983 847+	8 2377+
a_3	431 144-	136 455-	6156-	257 099+	244 007+	1 1424+
a_4	31 772-	48 809+	762+	1 845-	12 138-	724-
a_5	7 273+	948+		875-	861+	
	February 8			February 16		
a_0	100.6379 089+	18.8370 864+	0.9887 3729+	206.2224 888+	6.3047 000-	0.9156 1237+
a_1	15.0561 926+	0.2685 717-	0.0031 5692-	11.6595 989+	3.7210 413-	0.0078 7656-
a_2	584 306-	6034 337-	12 1020-	276 938-	1651 662+	11 2293+
a_3	485 891-	66 549+	3041-	241 036+	204 006+	8504+
a_4	6 440+	53 473+	1180+	6 128-	7 739-	760-
a_5	6 568+	2 083-		756-	760+	

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where p is the fraction of a day from 0^h TT.

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	Apparent Right Ascension	Apparent Declination	Horizontal Parallax	Apparent Right Ascension	Apparent Declination	Horizontal Parallax
February 17						
a_0	217-8778 091+	9-8408 724-	0-9089 3618+	318-4781 633+	14-4182 990-	0-9486 7792+
a_1	11-6736 928+	3-3322 232-	0-0054 0599-	13-2678 341+	2-7954 384+	0-0113 8726+
a_2	401 845+	2224 853+	13 3247+	13 794+	4059 461+	9642-
a_3	208 950+	180 475+	5455+	79 804-	190 200-	1 4660-
a_4	9 885-	3 874-	749-	18 913+	25 933-	319+
a_5	787-	463+		606+	547+	
February 18						
a_0	229-6115 142+	12-9329 039-	0-9049 0972+	331-7413 482+	11-2384 730-	0-9598 2535+
a_1	11-8123 995+	2-8344 286-	0-0026 0734-	13-2545 184+	3-5401 718+	0-0107 6739+
a_2	961 508+	2747 674+	14 5125+	106 094-	3338 750+	5 1557-
a_3	161 558+	169 358+	2464+	1 235+	288 171-	1 3367-
a_4	13 884-	1 510-	732-	21 867+	23 109-	808+
a_5	770-	26+		555-	1 041+	
February 19						
a_0	241-5347 549+	15-4757 777-	0-9037 7095+	344-9875 119+	7-3954 501-	0-9699 5158+
a_1	12-0472 303+	2-2346 782-	0-0003 3979+	13-2421 382+	4-1127 476+	0-0093 6761+
a_2	1355 158+	3246 946+	14 8123+	23 242+	2346 002+	8 6700-
a_3	98 496+	163 275+	460-	82 622+	370 043-	1 0064-
a_4	17 884-	1 366-	732-	18 971+	17 817-	1163+
a_5	482-	492-		1 456-	1 310+	
February 20						
a_0	253-7255 140+	17-3696 196-	0-9055 8005+	358-2419 880+	3-0867 573-	0-9783 6318+
a_1	12-3404 168+	1-5370 996-	0-0032 5919+	13-2784 330+	4-4644 635+	0-0073 7825+
a_2	1538 494+	3723 646+	14 2352+	370 365+	1142 079+	10 9892-
a_3	22 547+	152 608+	3385-	143 561+	428 154-	5311-
a_4	20 468-	3 872-	743-	11 615+	11 216-	1241+
a_5	223+	980-		2 113-	1 401+	
February 21						
a_0	266-2200 105+	18-5195 790-	0-9102 2148+	11-5727 638+	1-4481 171+	0-9846 0180+
a_1	12-6468 053+	0-7486 270-	0-0059 7495+	13-3991 632+	4-5606 469+	0-0050 7077+
a_2	1485 550+	4148 423+	12 7742+	849 599+	195 677-	11 8450-
a_3	56 513-	127 159+	6368-	168 610+	458 980-	254-
a_4	19 413-	8 888-	738-	980+	4 232-	1006+
a_5	1 240+	1 267-		2 604-	1 449+	
February 22						
a_0	279-0079 021+	18-8416 635-	0-9174 0279+	25-0735 854+	5-9430 199+	0-9884 9560+
a_1	12-9198 168+	0-1150 162+	0-0083 0922+	13-6187 554+	4-3828 491+	0-0027 3443+
a_2	1211 952+	4463 872+	10 4233+	1335 231+	1583 535-	11 3314-
a_3	121 264-	78 970+	9348-	146 397+	461 320-	3815+
a_4	13 046-	15 385-	669-	12 253-	2 936+	552+
a_5	2 131+	1 203-		2 777-	1 621+	
February 23						
a_0	292-0356 962+	18-2740 218-	0-9266 5417+	38-8390 006+	10-1218 392+	0-9901 4056+
a_1	13-1216 754+	1-0247 264+	0-0100 8665+	13-9234 318+	3-9297 314+	0-0006 0468+
a_2	791 245+	4596 418+	7 2233+	1673 066+	2933 671-	9 8711-
a_3	152 008-	5 645+	1 2070-	70 017+	433 181-	6008+
a_4	2 045-	21 534-	483-	26 609-	11 011+	51+
a_5	2 362+	768-		2 117-	1 947+	
February 24						
a_0	305-2213 270+	16-7913 194-	0-9373 3763+	52-9338 682+	13-7161 813+	0-9898 1871+
a_1	13-2346 843+	1-9367 066+	0-0111 4989+	14-2673 505+	3-2184 211+	0-0011 8731-
a_2	346 616+	4476 462+	3 3234+	1702 212+	4147 656-	8 0501-
a_3	136 918-	87 794-	1 4049-	56 418-	369 573-	6153+
a_4	10 076+	25 420-	145-	37 772-	20 903+	332-
a_5	1 746+	111-		101-	2 136+	

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	67.3620 107+	16.4851 834+	0.9878 8461+	178.1622 198+	3.1024 150+	0.9364 2468+
a_1	14.5757 114+	2.2874 466+	0.0026 2604-	12.1785 971+	4.1004 100-	0.0089 6308-
a_2	1305 295+	5109 545-	6 4086-	1660 205-	307 769-	4357+
a_3	206 823-	264 883-	4750+	204 682+	327 325+	8336+
a_4	38 401-	31 943+	503-	5 165+	10 934-	249+
a_5	2 888+	1 667+		1 211-	35-	
March 6						
a_0	82.0440 180+	18.2385 482+	0.9846 6019+	190.1956 599+	0.9971 364-	0.9275 9103+
a_1	14.7608 096+	1.1996 821+	0.0037 8539-	11.9094 214+	4.0681 575-	0.0086 1589-
a_2	483 412+	5695 816-	5 2835-	1027 271-	608 257+	3 0787+
a_3	330 313-	121 211-	2673+	213 448+	283 414+	9331+
a_4	23 191-	40 588+	448-	811-	11 030-	14+
a_5	5 089+	316+		834-	273+	
March 7						
a_0	96.8183 274+	18.8606 179+	0.9803 6869+	202.0235 345+	4.9772 025-	0.9193 7646+
a_1	14.7516 659+	0.0405 465+	0.0047 7987-	11.7672 604+	3.8657 572-	0.0077 1966-
a_2	595 616-	5812 774-	4 7437-	400 125-	1395 058+	5 8799+
a_3	372 372-	43 331+	837+	201 978+	242 094+	9373+
a_4	3 406+	42 115+	222-	4 918-	9 595-	195-
a_5	4 758+	1 383-		640-	394+	
March 8						
a_0	111.4740 109+	18.3282 933+	0.9751 2060+	213.7704 244+	8.6801 645-	0.9123 3657+
a_1	14.5245 699+	1.0928 559-	0.0057 1239-	11.7455 415+	3.5177 583-	0.0062 7030-
a_2	1644 638-	5443 976-	4 6162-	169 902+	2067 722+	8 5697+
a_3	312 590-	197 311+	59-	175 958+	207 635+	8577+
a_4	27 727+	34 824+	87+	8 099-	7 563-	355-
a_5	2 224+	2 515-		553-	355+	
March 9						
a_0	125.8058 530+	16.7140 018+	0.9689 4688+	225.5496 867+	11.9711 080-	0.9070 0546+
a_1	14.1140 646+	2.1097 862-	0.0066 3389-	11.8287 935+	3.0447 717-	0.0043 1327-
a_2	2393 858-	4668 311-	4 5726-	643 651+	2648 800+	10 9259+
a_3	181 006-	311 361+	313+	138 099+	180 829+	7145+
a_4	38 523+	21 860+	375+	10 894-	5 744-	472-
a_5	515-	2 656-		451-	184+	
March 10						
a_0	139.6662 321+	14.1704 409+	0.9618 6261+	237.4555 206+	14.7334 728-	0.9038 5151+
a_1	13.5961 414+	2.9426 236-	0.0075 2400-	11.9943 704+	2.4629 691-	0.0019 3262-
a_2	2710 973-	3629 656-	4 2482-	988 063+	3158 662+	12 7829+
a_3	32 930-	372 567+	1858+	90 155+	159 537+	5253+
a_4	35 341+	8 393+	554+	13 225-	4 801-	569-
a_5	1 999-	2 076-		212-	78-	
March 11						
a_0	152.9913 175+	10.9027 402+	0.9539 3790+	249.5563 691+	16.8651 097-	0.9032 4402+
a_1	13.0572 046+	3.5544 645-	0.0082 9573-	12.2136 340+	1.7853 347-	0.0007 5880+
a_2	2617 764-	2482 357-	3 3578-	1177 046+	3607 696+	14 0144+
a_3	88 315+	385 844+	4124+	35 396+	139 391+	2983+
a_4	24 942+	1 996-	579+	14 369-	5 189-	669-
a_5	2 192-	1 268-		235+	370-	
March 12						
a_0	165.7978 520+	7.1382 980+	0.9453 5342+	261.8898 339+	18.2762 916-	0.9054 2740+
a_1	12.5690 272+	3.9366 141-	0.0088 2041-	12.4540 326+	1.0242 391-	0.0036 2443+
a_2	2225 111-	1349 469-	1 7771-	1199 368+	3991 030+	14 5043+
a_3	166 406+	365 596+	6478+	19 383-	114 786+	316+
a_4	13 856+	8 265-	460+	13 221-	7 069-	789-
a_5	1 745-	551-		834+	625-	

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			March 29			
a_0	274.4606 262 +	18.8907 185 -	0.9104 9752 +	20.2217 871 +	4.4076 851 +	0.9999 6606 +
a_1	12.6832 202 +	0.1947 376 -	0.0065 0319 +	13.8954 117 +	4.6239 765 +	0.0058 4997 +
a_2	1070 240 +	4286 718 +	14 1213 +	1623 253 +	1024 778 -	18 8245 -
a_3	63 623 -	80 168 +	2839 -	110 169 +	536 033 -	6129 -
a_4	8 971 -	10 240 -	926 -	14 916 -	5 148 -	2212 +
a_5	1 373 +	784 -		2 936 -	3 134 +	
March 22			March 30			
a_0	287.2437 482 +	18.6498 699 -	0.9183 7518 +	34.2887 559 +	8.8753 792 +	1.0038 9441 +
a_1	12.8752 793 +	0.6821 683 +	0.0092 0522 +	14.2456 798 +	4.2577 192 +	0.0019 8978 +
a_2	839 296 +	4457 931 +	12 7103 +	1834 811 +	2632 383 -	19 3476 -
a_3	85 664 -	31 338 +	6559 -	21 725 +	525 131 -	2901 +
a_4	1 928 -	14 210 -	1045 -	30 229 -	10 798 +	1830 +
a_5	1 580 +	827 -		1 963 -	3 408 +	
March 23			March 31			
a_0	300.1943 560 +	17.5202 783 -	0.9287 7539 +	48.7168 701 +	12.8187 677 +	1.0039 9673 +
a_1	13.0174 579 +	1.5770 588 +	0.0115 0868 +	14.6060 896 +	3.5797 261 +	0.0017 1946 -
a_2	586 566 +	4458 414 +	10 1148 +	1698 897 +	4108 845 -	17 4039 -
a_3	77 731 -	33 726 -	1 0785 -	117 317 -	448 188 -	1 0304 +
a_4	6 168 +	18 387 -	1072 -	40 659 -	28 239 +	1023 +
a_5	1 308 +	757 -		644 +	2 846 +	
March 24			April 1			
a_0	313.2634 449 +	15.5026 652 -	0.9411 7697 +	63.4771 162 +	15.9458 990 +	1.0006 5014 +
a_1	13.1145 721 +	2.4508 904 +	0.0131 6515 +	14.8947 361 +	2.6362 173 +	0.0048 5020 -
a_2	403 478 +	4239 328 +	6 2414 +	1109 454 +	5255 464 -	13 7258 -
a_3	40 368 -	114 735 -	1 5156 -	271 627 -	307 675 -	1 4366 +
a_4	12 833 +	22 234 -	902 -	37 316 -	42 844 +	141 +
a_5	632 +	563 -		3 980 +	1 285 +	
March 25			April 2			
a_0	326.4156 745 +	12.6415 952 -	0.9548 0570 +	78.4523 013 +	18.0302 153 +	0.9945 7243 +
a_1	13.1886 054 +	3.2551 608 +	0.0139 2264 +	15.0222 041 +	1.5105 998 +	0.0071 5878 -
a_2	365 696 +	3756 073 +	1 1683 +	110 635 +	5908 565 -	9 3519 -
a_3	16 778 +	209 079 -	1 8866 -	380 114 -	124 663 -	1 4831 +
a_4	16 029 +	25 146 -	436 -	16 300 -	49 320 +	525 -
a_5	239 -	180 -		5 734 +	849 -	
March 26			April 3			
a_0	339.6441 064 +	9.0342 676 -	0.9686 5215 +	93.4465 008 +	18.9423 393 +	0.9866 2152 +
a_1	13.2730 692 +	3.9335 042 +	0.0135 7284 +	14.9266 422 +	0.3107 892 +	0.0086 0526 -
a_2	509 813 +	2976 147 +	4 7292 -	1069 999 -	5995 187 -	5 2276 -
a_3	77 979 +	311 081 -	2 0693 -	388 703 -	63 159 +	1 2623 +
a_4	14 825 +	26 160 -	334 +	13 559 +	44 677 +	853 -
a_5	1 138 -	469 +		4 431 +	2 538 -	
March 27			April 4			
a_0	352.9773 236 +	4.8368 258 -	0.9815 4849 +	108.2290 718 +	18.6641 397 +	0.9776 1121 +
a_1	13.4037 855 +	4.4251 809 +	0.0120 1957 +	14.6036 670 +	0.8526 992 -	0.0093 0625 -
a_2	821 314 +	1890 624 +	10 7085 -	2110 408 -	5563 105 -	1 9534 -
a_3	125 395 +	410 509 -	1 9357 -	291 932 -	216 208 +	9126 +
a_4	9 108 +	23 893 -	1247 +	35 959 +	31 451 +	875 -
a_5	1 999 -	1 368 +		1 277 +	3 007 -	
March 28			April 5			
a_0	6.4764 909 +	0.2658 860 -	0.9923 1612 +	122.5962 283 +	17.2795 952 +	0.9681 9212 +
a_1	13.6083 098 +	4.6712 809 +	0.0093 4712 +	14.1090 245 +	1.8893 803 -	0.0094 5818 -
a_2	1232 144 +	529 422 +	15 7448 -	2757 767 -	4755 890 -	2650 +
a_3	141 428 +	491 835 -	1 4252 -	136 848 -	312 274 +	5578 +
a_4	988 -	17 034 -	1981 +	41 775 +	16 111 +	691 -
a_5	2 720 -	2 349 +		1 371 -	2 404 -	

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	136.4198 316+	14.9472 241+	0.9588 0930+	233.7008 990+	14.0558 209-	0.9033 9663+
a_1	13.5324 396+	2.7416 322-	0.0092 6552-	11.9639 219+	2.6870 659-	0.0028 3341-
a_2	2931 470-	3746 438-	1 5322+	915 915+	3037 090+	8 7464+
a_3	15 910+	353 237+	2797+	61 446+	178 986+	5928+
a_4	34 277+	4 083+	410-	14 080-	7 374-	88-
a_5	2 425-	1 429-		93+	206-	
April 7						
a_0	149.6639 004+	11.8665 372+	0.9497 2087+	245.7611 582+	16.4220 372-	0.9014 9627+
a_1	12.9634 172+	3.3840 293-	0.0088 9157-	12.1599 536+	2.0290 046-	0.0009 0979-
a_2	2702 372-	2676 503-	2 1342+	1016 694+	3527 745+	10 4674+
a_3	128 842+	355 739+	1165+	6 352+	147 411+	5580+
a_4	21 828+	2 931-	119-	13 659-	8 420-	243-
a_5	2 268-	632-		608+	245-	
April 8						
a_0	162.3719 206+	8.2500 752+	0.9410 5318+	258.0221 112+	18.0843 925-	0.9016 8657+
a_1	12.4691 931+	3.8140 962-	0.0084 3453-	12.3600 386+	1.2827 224-	0.0013 4134+
a_2	2207 568-	1633 175-	2 4198+	959 877+	3917 010+	11 9901+
a_3	193 807+	337 960+	713+	41 902-	111 289+	4612+
a_4	10 438+	5 959-	121+	10 583-	9 661-	409-
a_5	1 674-	177-		1 139+	237-	
April 9						
a_0	174.6406 140+	4.3058 439+	0.9328 6898+	270.4730 029+	18.9652 748-	0.9042 6895+
a_1	12.0891 606+	4.0418 149-	0.0079 2431-	12.5357 802+	0.4699 163-	0.0038 6135+
a_2	1580 246-	656 804-	2 7111+	782 084+	4190 546+	13 1221+
a_3	219 137+	312 466+	1229+	72 658-	70 294+	2984+
a_4	2 140+	6 760-	274+	4 760-	10 842-	598-
a_5	1 128-	8+		1 464+	207-	
April 10						
a_0	186.5937 650+	0.2289 200+	0.9252 3081+	283.0793 961+	19.0102 120-	0.9094 6637+
a_1	11.8391 452+	4.0821 359-	0.0073 3425-	12.6692 274+	0.3848 407+	0.0065 5138+
a_2	921 257-	240 119+	3 2459+	550 211+	4334 312+	13 6515+
a_3	216 625+	285 526+	2356+	77 090-	24 847+	602+
a_4	3 416-	6 681-	328+	2 723+	11 842-	820-
a_5	781-	41+		1 415+	221-	
April 11						
a_0	198.3620 272+	3.8013 153-	0.9182 4799+	295.7963 495+	18.1906 617-	0.9173 8071+
a_1	11.7181 245+	3.9511 059-	0.0066 0124-	12.7579 389+	1.2543 098+	0.0092 6692+
a_2	299 683-	1057 030+	4 1487+	349 447+	4335 600+	13 3322+
a_3	195 258+	259 199+	3695+	52 286-	24 803-	2675-
a_4	7 276-	6 456-	294+	9 921+	12 893-	1068-
a_5	599-	7+		1 001+	347-	
April 12						
a_0	210.0689 217+	7.6214 432-	0.9121 0151+	308.5850 965+	16.5065 962-	0.9279 4342+
a_1	11.7135 557+	3.6645 192-	0.0056 4889-	12.8166 103+	2.1086 583+	0.0118 1037+
a_2	236 448+	1795 964+	5 4306+	262 126+	4180 375+	11 8818+
a_3	160 247+	233 410+	4888+	2 957-	79 978-	6966-
a_4	10 273-	6 412-	196+	14 973+	14 592-	1297-
a_5	469-	57-		376+	588-	
April 13						
a_0	221.8210 726+	11.0836 718-	0.9070 4651+	321.4291 586+	13.9894 162-	0.9408 5934+
a_1	11.8045 759+	3.2378 966-	0.0044 0831-	12.8743 248+	2.9146 089+	0.0139 2583+
a_2	650 855+	2457 155+	7 0103+	346 853+	3847 005+	9 0106+
a_3	114 586+	207 149+	5679+	60 295+	144 363-	1 2217-
a_4	12 668-	6 695-	62+	16 861+	17 570-	1404-
a_5	268-	134-		308-	834-	
April 14						
April 15						
April 16						
April 17						
April 18						
April 19						
April 20						
April 21						

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	334.3458 535+	10.7063 835-	0.9555 5002+	88.8260 393+	18.9796 116+	1.0047 8530+
a_1	12.9683 733+	3.6332 559+	0.0153 0523+	15.5038 103+	0.7312 238+	0.0097 4528-
a_2	625 825+	3300 132+	4 5091+	953 006-	6514 626-	14 7384-
a_3	124 228+	222 983-	1 7952-	545 624-	18 990+	2 2181+
a_4	15 352+	21 894-	1227-	13 271+	63 881+	134-
a_5	1 035-	848-		7 290+	3 767-	
April 23						
a_0	347.3906 638+	6.7676 870-	0.9711 1437+	104.1820 426+	19.0672 831+	0.9937 8664+
a_1	13.1364 289+	4.2172 064+	0.0156 1933+	15.1584 696+	0.5423 370-	0.0120 3298-
a_2	1080 283+	2491 298+	1 5929-	2437 262-	6112 211-	8 1902-
a_3	174 772+	318 726-	2 3020-	422 518-	236 143+	2 1482+
a_4	10 263+	26 414-	602-	50 327+	43 878+	956-
a_5	1 911-	322-		2 129+	4 956-	
April 24						
a_0	0.6534 333+	2.3358 970-	0.9863 3821+	119.0597 798+	17.9412 316+	0.9811 3990+
a_1	13.4080 655+	4.6091 231+	0.0145 8602+	14.5654 520+	1.6788 615-	0.0130 6488-
a_2	1647 074+	1373 368+	8 8256-	3381 718-	5190 165-	2 3297-
a_3	196 088+	426 847-	2 5559-	202 441-	362 737+	1 7512+
a_4	765+	28 355-	503+	59 928+	18 438+	1286-
a_5	2 993-	976+		2 273-	3 786-	
April 25						
a_0	14.2455 922+	2.3651 404+	0.9997 9112+	133.2725 814+	15.7810 925+	0.9680 0431+
a_1	13.7951 153+	4.7448 912+	0.0120 7425+	13.8512 090+	2.6025 891-	0.0130 5695-
a_2	2209 969+	67 567-	16 1505-	3652 366-	4029 188-	2 1535+
a_3	168 704+	529 371-	2 3545-	13 639+	399 722+	1 2277+
a_4	14 421-	23 662-	1836+	47 429+	484-	1242-
a_5	3 928-	2 951+		3 771-	1 854-	
April 26						
a_0	28.2767 399+	7.0482 667+	1.0100 3323+	146.7642 835+	12.8153 228+	0.9552 7306+
a_1	14.2799 884+	4.5645 794+	0.0082 1133+	13.1419 142+	3.2896 294-	0.0123 0765-
a_2	2590 152+	1768 109-	22 0811-	3364 656-	2851 429-	5 0988+
a_3	71 966+	593 399-	1 6008-	165 912+	380 101+	7266+
a_4	34 891-	8 677-	2866+	28 084+	9 458-	994-
a_5	3 607-	4 914+		3 247-	369-	
April 27						
a_0	42.8190 903+	11.3763 190+	1.0159 0504+	159.5888 071+	9.2775 778+	0.9435 3800+
a_1	14.8038 521+	4.0319 249+	0.0034 2968+	12.5283 681+	3.7498 522-	0.0111 0967-
a_2	2560 448+	3551 106-	25 1574-	2730 885-	1771 530-	6 6922+
a_3	101 918-	578 606-	4232-	246 392+	339 013+	3283+
a_4	54 190-	16 714+	3078+	11 843+	11 025-	672-
a_5	598-	5 584+		2 167-	373+	
April 28						
a_0	57.8633 165+	14.9975 025+	1.0168 0744+	171.8696 936+	5.3834 086+	0.9331 2366+
a_1	15.2633 968+	3.1575 975+	0.0016 0548-	12.0597 634+	4.0066 775-	0.0096 9962-
a_2	1923 508+	5130 638-	24 6018-	1942 300-	816 882-	7 2836+
a_3	321 647-	456 950-	8341+	272 585+	298 761+	604+
a_4	57 592-	45 733+	2361+	1 164+	8 985-	357-
a_5	4 749+	3 787+		1 315-	557+	
April 29						
a_0	73.2816 150+	17.6012 932+	1.0128 4881+	183.7624 703+	1.3240 762+	0.9241 5487+
a_1	15.5309 461+	2.0145 671+	0.0061 8109-	11.7528 873+	4.0837 413-	0.0082 3905-
a_2	660 738+	6189 153-	20 7210-	1130 695-	31 073+	7 2591+
a_3	502 367-	238 364-	1 7868+	264 356+	268 321+	804-
a_4	32 232-	65 148+	1100+	5 265-	6 116-	88-
a_5	8 642+	117-		857-	430+	

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	195.4281 116+	2.7302 943-	0.9166 3282+	292.2411 362+	18.7407 282-	0.9092 2605+
a_1	11.6035 211+	3.9992 618-	0.0068 1484-	12.6403 753+	0.9844 107+	0.0063 8338+
a_2	377 770-	803 650+	6 9716+	31 988+	4290 035+	11 6159+
a_3	234 837+	248 010+	1132-	88 200-	34 716-	2396+
a_4	9 467-	3 932-	115+	13 208+	13 259-	541-
a_5	683-	166+		1 248+	284+	
	May 9			May 17		
a_0	207.0163 243+	6.6247 666-	0.9105 0498+	304.8773 359+	17.3320 830-	0.9167 8958+
a_1	11.5942 896+	3.7656 187-	0.0054 4985-	12.6262 190+	1.8268 415+	0.0087 5685+
a_2	263 101+	1525 752+	6 7052+	140 888-	4109 197+	12 0015+
a_3	190 182+	233 770+	646-	23 366-	85 027-	247+
a_4	12 887-	3 100-	245+	19 450+	11 720-	832-
a_5	607-	137-		423+	75+	
	May 10			May 18		
a_0	218.6545 928+	10.2147 567-	0.9057 2163+	317.4891 167+	15.1039 891-	0.9267 4073+
a_1	11.6985 065+	3.3916 460-	0.0041 1840-	12.5990 219+	2.6185 216+	0.0111 3127+
a_2	750 246+	2207 090+	6 6598+	90 071-	3784 555+	11 5664+
a_3	132 677+	219 843+	356+	58 239+	131 410-	3080-
a_4	16 002-	3 810-	298+	21 491+	11 277-	1150-
a_5	424-	411-		300-	368-	
	May 11			May 19		
a_0	230.4397 490+	13.3641 315-	0.9022 7575+	330.0870 744+	12.1213 174-	0.9389 8633+
a_1	11.8817 466+	2.8860 048-	0.0027 6382-	12.6069 249+	3.3313 144+	0.0133 0612+
a_2	1048 009+	2839 642+	6 9451+	210 584+	3318 984+	9 9435+
a_3	64 692+	200 394+	1571+	140 858+	180 481-	7709-
a_4	18 246-	5 919-	282+	19 957+	13 137-	1433-
a_5	23+	586-		877-	873-	
	May 12			May 20		
a_0	242.4309 433+	15.9467 833-	0.9002 2497+	342.7310 514+	8.4775 538-	0.9531 9538+
a_1	12.1034 696+	2.2606 192-	0.0013 1637-	12.6988 425+	3.9352 753+	0.0150 0618+
a_2	1132 822+	3399 431+	7 5833+	744 142+	2689 968+	6 7677+
a_3	7 648-	170 849+	2717+	211 538+	241 918-	1 3523-
a_4	18 218-	8 931-	206+	15 659+	17 655-	1548-
a_5	746+	594-		1 512-	1 166-	
	May 13			May 21		
a_0	254.6451 832+	17.8513 271-	0.8996 9616+	355.5268 766+	4.2993 557-	0.9687 2762+
a_1	12.3208 267+	1.5333 476-	0.0002 9003+	12.9166 387+	4.3930 484+	0.0158 9202+
a_2	1008 043+	3852 441+	8 5178+	1457 619+	1846 569+	1 7901+
a_3	72 608-	129 294+	3553+	258 466+	324 015-	1 9868-
a_4	14 438-	11 976-	80+	8 301+	23 822-	1296-
a_5	1 529+	404-		2 512-	864-	
	May 14			May 22		
a_0	267.0582 625+	18.9877 392-	0.9008 7429+	8.6157 027+	0.2434 795+	0.9845 8702+
a_1	12.4956 429+	0.7290 634-	0.0021 0339+	13.2877 649+	4.6551 987+	0.0156 0205+
a_2	718 916+	4164 420+	9 6265+	2257 721+	722 885+	4 9228-
a_3	114 799-	77 530+	3885+	265 698+	427 148-	2 5249-
a_4	6 588-	14 023-	87-	4 113-	28 639-	489-
a_5	1 997+	84-		3 992-	479+	
	May 15			May 23		
a_0	279.6138 580+	19.2940 183-	0.9039 7831+	22.1549 991+	4.9254 358+	0.9994 3942+
a_1	12.6033 498+	0.1214 287+	0.0041 4179+	13.8153 763+	4.6604 179+	0.0138 4039+
a_2	355 000+	4312 039+	10 7337+	2990 169+	725 671-	12 7488-
a_3	121 246-	20 761+	3552+	208 617+	535 437-	2 7347-
a_4	3 649+	14 391-	292-	24 436-	26 687-	871+
a_5	1 881+	204+		5 303-	3 043+	

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	36.2872 800+	9.4573 786+	1.0117 4018+	156.3629 781+	10.4915 353+	0.9566 3626+
a_1	14.4635 705+	4.3455 027+	0.0105 0508+	12.9372 358+	3.7322 625-	0.0146 8760-
a_2	3416 165+	2461 650-	20 3833-	3572 404-	2032 474-	5 9077+
a_3	58 408+	610 049-	2 3820-	257 773+	395 269+	1 2694+
a_4	52 385-	11 309-	2409+	22 436+	18 588-	1391-
a_5	4 452-	6 063+		3 419-	397+	
May 25						
a_0	51.0926 240+	13.4951 868+	1.0199 9282+	168.9706 526+	6.5937 332+	0.9426 5247+
a_1	15.1411 520+	3.6686 673+	0.0058 1033+	12.3073 539+	4.0274 127-	0.0131 8089-
a_2	3232 278+	4298 831-	26 0523-	2698 622-	954 178-	8 8904+
a_3	192 596-	593 983-	1 3907-	314 177+	325 250+	7102+
a_4	76 596-	20 300+	3444+	5 557+	16 267-	1093-
a_5	837+	7 327+		1 952-	1 004+	
May 26						
a_0	66.5301 683+	16.6773 354+	1.0230 9329+	181.0399 226+	2.5019 015+	0.9304 2071+
a_1	15.6996 175+	2.6424 864+	0.0003 2061+	11.8631 306+	4.1266 778-	0.0112 3346-
a_2	2203 298+	5885 444-	28 1590-	1742 230-	65 961-	10 3756+
a_3	486 124-	441 144-	249+	317 385+	270 228+	2732+
a_4	72 303-	58 774+	3414+	3 947-	11 073-	761-
a_5	8 886+	4 499+		1 101-	995+	
May 27						
a_0	82.3951 616+	18.6934 904+	1.0206 3461+	192.7600 640+	1.6053 574-	0.9202 4454+
a_1	15.9699 655+	1.3588 069+	0.0051 6705-	11.6077 712+	4.0627 335-	0.0091 0678-
a_2	400 452+	6811 171-	26 0690-	824 744-	688 249+	10 7484+
a_3	684 530-	164 443-	1 4167+	290 777+	235 715+	297-
a_4	24 511-	81 770+	2337+	9 284-	6 020-	456-
a_5	12 438+	1 520-		783-	691+	
May 28						
a_0	98.3355 120+	19.3627 609+	1.0130 2570+	204.3134 318+	5.5762 273-	0.9122 0507+
a_1	15.8411 060+	0.0208 173-	0.0098 6232-	11.5259 505+	3.8564 320-	0.0069 8422-
a_2	1675 408-	6829 293-	20 4636-	15 937-	1366 192+	10 3940+
a_3	660 933-	144 795+	2 3547+	245 842+	218 296+	2103-
a_4	40 579+	72 680+	797+	13 138-	2 531-	198-
a_5	7 459+	6 190-		746-	257+	
May 29						
a_0	113.9477 876+	18.6801 427+	1.0013 6045+	215.8609 843+	9.2744 380-	0.9062 3724+
a_1	15.3276 965+	1.3172 610-	0.0132 1682-	11.5908 876+	3.5185 893-	0.0049 7644-
a_2	3340 219-	6020 980-	12 9623-	635 295+	2008 464+	9 6505+
a_3	428 489-	373 364+	2 6587+	185 860+	210 463+	2880-
a_4	77 362+	39 996+	534-	16 922-	1 244-	8+
a_5	494-	6 537-		712-	222-	
May 30						
a_0	128.9063 000+	16.8014 661+	0.9871 0792+	227.5322 240+	12.5712 812-	0.9021 9712+
a_1	14.5617 987+	2.3967 148-	0.0150 3314-	11.7665 803+	3.0543 668-	0.0031 3244-
a_2	4166 745-	4726 361-	5 3309-	1084 203+	2630 161+	8 7958+
a_3	126 508-	469 398+	2 4254+	111 237+	203 013+	2833-
a_4	72 875+	6 746+	1305-	20 637-	2 396-	161+
a_5	4 826-	3 981-		409-	660-	
May 31						
a_0	143.0455 784+	13.9793 316+	0.9717 7118+	239.4162 437+	15.3426 361-	0.8999 1755+
a_1	13.7172 340+	3.2004 563-	0.0154 2398-	12.0083 335+	2.4687 190-	0.0014 5180-
a_2	4157 459-	3317 452-	1 1550+	1289 976+	3218 216+	8 0459+
a_3	116 573+	458 139+	1 8884+	25 028+	186 683+	2168-
a_4	47 515+	12 838-	1527-	22 864-	5 794-	260+
a_5	4 972-	1 248-		330+	926-	

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			June 17			
a_0	251.5538 242+	17.4715 372-	0.8992 5126+	351.7422 364+	5.8321 396-	0.9513 4964+
a_1	12.2648 579+	1.7718 512-	0.0001 0274+	12.4993 186+	4.1693 627+	0.0132 6700+
a_2	1231 171+	3734 225+	7 5525+	790 708+	1949 849+	6 6689+
a_3	62 516-	154 278+	1109-	263 117+	271 023-	8407-
a_4	21 273-	10 567-	298+	14 826+	13 818-	1379-
a_5	1 394+	883-		1 764-	1 111-	
June 10			June 18			
a_0	263.9335 597+	18.8556 830-	0.9001 0113+	4.3482 437+	1.4963 871-	0.9651 8567+
a_1	12.4845 262+	0.9833 905-	0.0015 9188+	12.7414 426+	4.4719 433+	0.0142 9335+
a_2	929 955+	4124 811+	7 3976+	1651 418+	1042 716+	3 3186+
a_3	133 139-	103 402+	103+	304 138+	337 267-	1 4025-
a_4	14 122-	15 105-	271+	6 277+	19 698-	1411-
a_5	2 319+	497-		2 866-	898-	
June 11			June 19			
a_0	276.4965 872+	19.4178 124-	0.9024 3651+	17.2855 831+	3.0440 415+	0.9796 5652+
a_1	12.6260 866+	0.1336 974-	0.0030 8535+	13.1640 438+	4.5709 798+	0.0144 7978+
a_2	469 050+	4339 419+	7 5882+	2572 862+	96 328-	1 7236-
a_3	166 299-	38 342+	1208+	299 621+	424 289-	1 9832-
a_4	2 172-	17 606-	177+	7 888-	24 713-	1031-
a_5	2 558+	75+		4 563-	369+	
June 12			June 20			
a_0	289.1529 876+	19.1154 868-	0.9062 9454+	30.7356 301+	7.5605 253+	0.9937 5532+
a_1	12.6704 166+	0.7386 845+	0.0046 4634+	13.7630 645+	4.4147 299+	0.0134 9876+
a_2	17 254-	4349 570+	8 0521+	3378 692+	1513 859-	8 2630-
a_3	149 748-	31 075-	1938+	221 709+	517 933-	2 4136-
a_4	10 916+	17 128-	19+	31 232-	23 395-	103-
a_5	1 954+	534+		5 931-	2 997+	
June 13			June 21			
a_0	301.8079 909+	17.9466 122-	0.9117 6565+	44.8550 185+	11.7700 362+	1.0061 8540+
a_1	12.6273 833+	1.5926 921+	0.0063 1567+	14.4898 597+	3.9487 223+	0.0111 1791+
a_2	381 455-	4158 946+	8 6381+	3796 858+	3178 041-	15 5232-
a_3	87 155-	94 179-	2034+	38 430+	579 702-	2 4640-
a_4	20 756+	14 289-	201-	62 716-	8 290-	1276+
a_5	886+	644+		4 428-	6 267+	
June 14			June 22			
a_0	314.3906 773+	15.9488 079-	0.9189 6345+	59.7216 927+	15.3427 819+	1.0155 1735+
a_1	12.5336 900+	2.3908 336+	0.0080 9627+	15.2334 680+	3.1390 222+	0.0073 2515+
a_2	509 541-	3797 136+	9 1189+	3491 268+	4904 005-	22 1077-
a_3	4 158+	145 054-	1246+	252 822-	549 484-	1 9432-
a_4	25 070+	10 928-	478-	86 993-	24 521+	2652+
a_5	104-	364+		2 357+	7 625+	
June 15			June 23			
a_0	326.8763 256+	13.1938 224-	0.9279 7929+	75.2705 418+	17.9396 698+	1.0204 6393+
a_1	12.4430 043+	3.1025 551+	0.0099 3831+	15.8222 663+	2.0069 929+	0.0024 2688+
a_2	347 708-	3300 060+	9 1959+	2234 539+	6328 780-	26 3241-
a_3	103 015+	185 428-	656-	572 266-	377 075-	8521-
a_4	24 411+	9 042-	799-	74 382-	64 743+	3377+
a_5	754-	171-		11 298+	4 277+	
June 16			June 24			
a_0	339.2972 263+	9.7807 255-	0.9388 2264+	91.2527 270+	19.2829 794+	1.0202 0695+
a_1	12.4137 544+	3.7032 357+	0.0117 2586+	16.0733 926+	0.6561 432+	0.0029 5832-
a_2	100 264+	2687 811+	8 5098+	185 041+	7028 713-	26 8644-
a_3	192 861+	223 634-	3858-	755 616-	79 110-	5331+
a_4	20 618+	9 925-	1126-	13 637-	86 511+	3048+
a_5	1 187-	748-		13 491+	2 478-	

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	107.2690 476+	19.2367 436+	1.0146 4596+	212.9389 830+	8.1834 647-	0.9113 8819+
a_1	15.8849 991+	0.7399 725-	0.0080 4927-	11.5956 337+	3.6553 369-	0.0073 2281-
a_2	2028 340-	6772 028-	23 4730-	211 854+	1915 869+	12 8032+
a_3	679 186-	239 479+	1 7717+	240 528+	196 171+	934-
a_4	56 424+	72 262+	1848+	14 944-	2 378-	511-
a_5	6 335+	7 194-		827-	296+	
June 26						
a_0	122.8895 699+	17.8500 228+	1.0044 4503+	224.5782 779+	11.6278 057-	0.9053 3125+
a_1	15.3013 027+	1.9972 268-	0.0121 3846-	11.7037 721+	3.2141 155-	0.0048 1063-
a_2	3664 196-	5692 233-	17 0940-	835 491+	2493 077+	12 2230+
a_3	394 946-	456 662+	2 5085+	172 533+	189 291+	2967-
a_4	86 779+	34 441+	386+	19 180-	892-	297-
a_5	2 188-	6 941-		754-	273-	
June 27						
a_0	137.7934 174+	15.3319 889+	0.9908 5187+	236.3808 590+	14.5738 010-	0.9017 1028+
a_1	14.4835 929+	2.9883 657-	0.0147 8934-	11.9145 819+	2.6592 069-	0.0024 6691-
a_2	4350 569-	4185 081-	9 3723-	1230 442+	3052 857+	11 1605+
a_3	71 818-	526 744+	2 6470+	88 544+	182 689+	4145-
a_4	73 579+	710-	764-	23 153-	2 308-	115-
a_5	5 732-	3 834-		297-	794-	
June 28						
a_0	151.8415 564+	11.9773 352+	0.9753 8236+	248.4249 946+	16.9097 635-	0.9003 1683+
a_1	13.6185 000+	3.6695 561-	0.0159 0036-	12.1778 251+	1.9951 495-	0.0003 6375-
a_2	4182 021-	2647 383-	1 9086-	1354 162+	3579 115+	9 8529+
a_3	165 473+	487 262+	2 3237+	6 477-	165 342+	4596-
a_4	43 865+	19 433-	1365-	24 825-	6 407-	40+
a_5	5 089-	882-		670+	1 099-	
June 29						
a_0	165.0622 791+	8.0897 355+	0.9595 0986+	260.7351 728+	18.5312 178-	0.9008 9281+
a_1	12.8467 412+	4.0610 665-	0.0156 3964-	12.4371 211+	1.2328 357-	0.0014 7055+
a_2	3473 307-	1310 938-	4 2392+	1192 487+	4025 690+	8 5021+
a_3	291 095+	401 673+	1 7651+	98 380-	128 781+	4425-
a_4	18 384+	23 299-	1489-	21 465-	12 079-	167+
a_5	3 223-	760+		1 888+	1 014-	
June 30						
a_0	177.5923 152+	3.9354 886+	0.9444 5577+	273.2797 468+	19.3499 158-	0.9031 7099+
a_1	12.2451 521+	4.2116 912-	0.0143 2185-	12.6384 631+	0.3944 016-	0.0030 4491+
a_2	2521 906-	238 064-	8 6460+	787 476+	4329 398+	7 2776+
a_3	333 248+	316 397+	1 1634+	164 887-	70 611+	3741-
a_4	2 560+	19 152-	1327-	11 732-	17 289-	255+
a_5	1 761-	1 290+		2 729+	515-	
July 1						
a_0	189.6186 815+	0.2701 555-	0.9311 0159+	285.9795 686+	19.3060 969-	0.9069 0879+
a_1	11.8408 896+	4.1714 008-	0.0122 9671-	12.7431 641+	0.4854 888+	0.0043 9840+
a_2	1524 376-	609 139+	11 3486+	249 778+	4432 342+	6 3092+
a_3	326 312+	252 642+	6311+	184 566-	3 307-	2701-
a_4	5 977-	12 533-	1051-	2 332+	19 872-	287+
a_5	1 021-	1 196+		2 649+	173+	
July 2						
a_0	201.3390 650+	4.3565 118-	0.9199 9235+	298.7297 521+	18.3796 744-	0.9119 1399+
a_1	11.6310 073+	3.9781 958-	0.0098 7968-	12.7400 065+	1.3631 037+	0.0055 9074+
a_2	591 485-	1303 841+	12 6203+	263 395-	4304 942+	5 6703+
a_3	292 327+	214 252+	2113+	149 280-	80 763-	1526-
a_4	10 925-	6 476-	765-	15 836+	18 873-	248+
a_5	810-	812+		1 699+	697+	

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	311.4302 446+	16.5959 703-	0.9180 5898+	54.3725 886+	14.0407 437+	0.9973 9788+
a_1	12.6497 261+	2.1926 627+	0.0066 8897+	14.4807 103+	3.3818 383+	0.0094 0956+
a_2	599 230-	3956 411+	5 3577+	3604 421+	3959 293-	10 4784-
a_3	69 649-	149 216-	506-	23 315-	508 535-	1 9012-
a_4	24 311+	15 207-	127+	65 570-	2 071+	305+
a_5	464+	816+		2 640-	5 702+	
July 12						
a_0	324.0155 603+	14.0240 272-	0.9252 7993+	69.2045 886+	16.9765 766+	1.0055 7254+
a_1	12.5189 409+	2.9335 051+	0.0077 5044+	15.1670 602+	2.4410 992+	0.0067 5571+
a_2	657 693-	3425 703+	5 2760+	3114 463+	5415 244-	15 9652-
a_3	31 682+	202 042-	27+	308 041-	442 998-	1 7815-
a_4	26 457+	10 992-	75-	80 150-	31 985+	1404+
a_5	495-	534+		4 324+	6 197+	
July 13						
a_0	336.4744 962+	10.7692 018-	0.9335 5749+	84.6447 084+	18.8356 698+	1.0105 6763+
a_1	12.4072 414+	3.5539 026+	0.0088 0347+	15.6676 498+	1.2410 394+	0.0030 8445+
a_2	408 876-	2758 969+	5 2309+	1752 915+	6490 125-	20 4386-
a_3	132 236+	240 963-	255-	581 571-	255 094-	1 2070-
a_4	23 844+	8 276-	344-	56 895-	64 592+	2342+
a_5	1 040-	25+		11 258+	2 680+	
July 14						
a_0	348.8563 539+	6.9643 237-	0.9428 7807+	100.4249 289+	19.4089 146+	1.0115 1095+
a_1	12.3741 539+	4.0301 090+	0.0098 2827+	15.8266 321+	0.1063 431-	0.0012 7154-
a_2	120 493+	1986 667+	4 9388+	220 059-	6841 051-	22 6440-
a_3	216 979+	274 107-	1626-	696 695-	26 854+	2456-
a_4	18 650+	8 197-	648-	3 073+	77 996+	2679+
a_5	1 415-	483-		11 033+	3 065-	
July 15						
a_0	1.2659 786+	2.7638 269-	0.9531 7748+	116.1612 962+	18.6286 450+	1.0079 7724+
a_1	12.4700 982+	4.3416 892+	0.0107 4134+	15.5803 499+	1.4368 349-	0.0057 6674-
a_2	869 207+	1110 304+	4 0538+	2181 162-	6323 394-	21 7871-
a_3	277 075+	311 875-	4236-	577 995-	306 186+	8496+
a_4	11 742+	10 771-	929-	59 681+	61 046+	2235+
a_5	2 010-	746-		3 935+	6 584-	
July 16						
a_0	13.8516 783+	1.6565 536+	0.9642 7255+	131.4720 921+	16.5955 354+	1.0001 3910+
a_1	12.7307 528+	4.4655 068+	0.0113 8783+	14.9965 515+	2.5885 311-	0.0097 7980-
a_2	1750 817+	102 554+	2 2208+	3517 922-	5104 610-	17 9278-
a_3	303 292+	362 230-	8007-	303 743-	484 786+	1 7547+
a_4	1 924+	14 805-	1093-	77 875+	26 690+	1233+
a_5	3 126-	446-		2 791-	6 044-	
July 17						
a_0	26.7877 219+	6.0945 677+	0.9757 9146+	146.0939 854+	13.5470 866+	0.9887 5431+
a_1	13.1711 089+	4.3712 053+	0.0115 4800+	14.2315 959+	3.4563 600-	0.0127 8966-
a_2	2640 979+	1077 489-	8344-	3990 068-	3550 596-	11 9581-
a_3	278 891+	425 176-	1 2481-	21 544-	532 631+	2 2440+
a_4	13 700-	17 487-	1012-	62 143+	3 853-	125+
a_5	4 610-	798+		5 097-	3 330-	
July 18						
a_0	40.2489 867+	10.3138 376+	0.9871 2110+	159.9301 248+	9.7882 117+	0.9749 9449+
a_1	13.7751 864+	4.0215 616+	0.0109 6614+	13.4494 287+	4.0098 935-	0.0145 0315-
a_2	3349 240+	2450 013-	5 1716-	3732 916-	2009 073-	5 1773-
a_3	177 686+	485 800-	1 6663-	176 472+	485 386+	2 2816+
a_4	37 526-	13 875-	558-	35 934+	20 144-	715-
a_5	5 246-	3 133+		4 283-	775-	

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	173.0270 741 +	5.6238 577 +	0.9601 9463 +	269.6702 916 +	19.1393 830 -	0.9041 3261 +
a_1	12.7680 208 +	4.2745 354 -	0.0148 8277 -	12.5843 528 +	0.6608 115 -	0.0028 3355 +
a_2	3030 725 -	681 460 -	1 2251 +	1025 475 +	4249 694 +	10 2238 +
a_3	278 265 +	397 933 +	1 9830 +	111 271 -	95 075 +	6296 -
a_4	14 547 +	23 561 -	1149 -	17 739 -	13 000 -	151 -
a_5	2 711 -	708 +		2 070 +	966 -	
July 28						
a_0	185.5210 325 +	1.3186 842 +	0.9456 2118 +	282.3444 977 +	19.3671 142 -	0.9079 2408 +
a_1	12.2498 198 +	4.3005 176 -	0.0140 8885 -	12.7500 063 +	0.2119 674 +	0.0046 8340 +
a_2	2135 726 -	378 094 +	6 4816 +	605 977 +	4447 244 +	8 2493 +
a_3	310 014 +	311 080 +	1 5146 +	161 225 -	33 685 +	6902 -
a_4	1 241 +	19 708 -	1241 -	7 060 -	17 949 -	1 +
a_5	1 550 -	1 229 +		2 600 +	499 -	
July 29						
a_0	197.5882 502 +	2.9147 639 -	0.9323 1953 +	295.1385 333 +	18.7088 987 -	0.9133 6340 +
a_1	11.9154 009 +	4.1388 438 -	0.0123 8784 -	12.8213 098 +	1.1040 930 +	0.0061 2625 +
a_2	1213 706 -	1205 396 +	10 2838 +	105 993 +	4435 609 +	6 1841 +
a_3	299 812 +	244 504 +	1 0137 +	163 669 -	42 750 -	6895 -
a_4	6 292 -	13 395 -	1131 -	6 298 +	20 448 -	154 +
a_5	986 -	1 164 +		2 240 +	124 +	
July 30						
a_0	209.4115 338 +	6.9098 408 -	0.9210 5013 +	307.9549 293 +	17.1675 521 -	0.9200 4065 +
a_1	11.7595 936 +	3.8291 899 -	0.0100 7221 -	12.7970 459 +	1.9702 734 +	0.0071 6239 +
a_2	361 868 -	1870 190 +	12 6524 +	324 798 -	4185 930 +	4 2121 +
a_3	264 879 +	202 355 +	5604 +	116 656 -	123 021 -	6265 -
a_4	11 112 -	7 492 -	941 -	17 662 +	19 719 -	284 +
a_5	831 -	799 +		1 215 +	609 +	
July 31						
a_0	221.1602 341 +	10.5324 455 -	0.9122 8980 +	320.7097 174 +	14.7928 986 -	0.9275 6443 +
a_1	11.7618 231 +	3.3970 433 -	0.0074 1124 -	12.7047 603 +	2.7629 708 +	0.0078 2822 +
a_2	357 782 +	2440 300 +	13 7753 +	556 658 -	3704 672 +	2 5050 +
a_3	212 141 +	180 081 +	1847 +	34 510 -	195 706 -	5105 -
a_4	15 276 -	3 457 -	745 -	23 667 +	16 529 -	353 +
a_5	804 -	287 +		87 +	772 +	
August 1						
a_0	232.9774 414 +	13.6677 677 -	0.9062 6711 +	333.3577 363 +	11.6806 068 -	0.9355 9563 +
a_1	11.8905 093 +	2.8561 990 -	0.0046 3058 -	12.5925 849 +	3.4389 679 +	0.0081 9019 +
a_2	894 486 +	2962 669 +	13 8875 +	517 340 -	3026 117 +	1 1843 +
a_3	143 113 +	168 793 +	1125 -	60 546 +	254 187 -	3660 -
a_4	19 423 -	2 021 -	574 -	23 947 +	12 564 -	328 +
a_5	610 -	279 -		737 -	620 +	
August 2						
a_0	244.9697 073 +	16.2110 506 -	0.9030 0828 +	345.9069 628 +	7.9656 402 -	0.9438 7092 +
a_1	12.1042 670 +	2.2139 763 -	0.0019 0981 -	12.5164 906 +	3.9632 194 +	0.0083 3037 +
a_2	1201 161 +	3454 117 +	13 2099 +	199 401 -	2194 378 +	2787 +
a_3	59 673 +	157 624 +	3417 -	148 662 +	298 427 -	2315 -
a_4	22 663 -	3 474 -	428 -	20 174 +	9 431 -	195 +
a_5	12 -	784 -		1 244 -	295 +	
August 3						
a_0	257.1977 902 +	18.0642 786 -	0.9023 8101 +	358.4202 726 +	3.8137 393 -	0.9522 0795 +
a_1	12.3533 310 +	1.4776 475 -	0.0006 1254 +	12.5286 563 +	4.3089 418 +	0.0083 2445 +
a_2	1244 064 +	3898 286 +	11 9324 +	355 199 +	1245 455 +	3060 -
a_3	30 516 -	135 729 +	5127 -	216 655 +	333 369 -	1512 -
a_4	22 846 -	7 523 -	291 -	13 996 +	8 009 -	31 -
a_5	1 002 +	1 062 -		1 689 -	6 -	

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	11-0073 451+	0-5856 096+	0-9604 8636+	125-5030 494+	17-5228 959+	0-9949 5294+
a_1	12-6694 460+	4-4548 155+	0-0082 1662+	14-9915 809+	2-1146 800-	0-0045 4537-
a_2	1072 272+	197 213+	7868 -	2337 887-	5548 844-	16 0702-
a_3	255 360+	365 482-	1634 -	383 836-	353 721+	1598+
a_4	5 681+	8 193-	302 -	54 898+	42 092+	1719+
a_5	2 357-	51 -		889+	4 978-	
August 13						
a_0	23-8098 867+	5-0227 738+	0-9686 0494+	140-2280 365+	14-8924 151+	0-9888 3372+
a_1	12-9616 015+	4-3813 111+	0-0079 9816+	14-4312 516+	3-1039 838-	0-0076 4263-
a_2	1848 882+	948 945-	1 4654-	3151 298-	4285 016-	14 5692-
a_3	253 984+	398 487-	2865 -	157 531-	472 702+	8606+
a_4	6 042-	8 712-	542 -	58 134+	16 453+	1394+
a_5	3 294-	421+		2 877-	4 244-	
August 14						
a_0	36-9808 411+	9-2685 125+	0-9764 2250+	154-3339 309+	11-4084 208+	0-9798 3417+
a_1	13-4035 084+	4-0687 028+	0-0075 9744+	13-7755 467+	3-8147 150-	0-0102 4249-
a_2	2541 592+	2192 514-	2 6534-	3304 001-	2810 652-	11 1702-
a_3	196 513+	428 442-	5087 -	45 686+	497 112+	1 4243+
a_4	22 834-	6 900-	659 -	42 750+	4 916-	764+
a_5	3 970-	1 602+		3 754-	2 416-	
August 15						
a_0	50-6554 795+	13-0745 899+	0-9836 9715+	167-7875 458+	7-3616 186+	0-9686 2472+
a_1	13-9596 630+	3-4997 101+	0-0068 8777+	13-1436 761+	4-2308 841-	0-0120 1869-
a_2	2954 279+	3503 231-	4 5715-	2948 034-	1372 941-	6 4601-
a_3	66 041+	439 075-	7802 -	179 552+	454 278+	1 7279+
a_4	43 666-	1 049+	562 -	23 641+	16 795-	74+
a_5	3 061-	3 274+		2 997-	702-	
August 16						
a_0	64-9125 017+	16-1805 017+	0-9900 4413+	180-6564 381+	3-0371 185+	0-9561 3355+
a_1	14-5513 383+	2-6693 993+	0-0057 1690+	12-6158 938+	4-3762 568-	0-0127 8940-
a_2	2859 618+	4781 343-	7 2377-	2297 497-	117 859-	1 2486-
a_3	137 060-	401 518-	1 0136-	244 737+	380 716+	1 7509+
a_4	60 181-	17 956+	197 -	8 715+	20 030-	470-
a_5	709+	4 407+		1 955-	393+	
August 17						
a_0	79-7301 487+	18-3338 512+	0-9949 3394+	193-0677 318+	1-3148 162-	0-9433 8969+
a_1	15-0584 325+	1-6020 602+	0-0039 5738+	12-2323 245+	4-2934 286-	0-0125 3268-
a_2	2094 457+	5833 936-	10 3781-	1530 529-	908 073+	3 7121+
a_3	367 621-	286 167-	1 0982-	260 467+	304 808+	1 5554+
a_4	56 582-	41 051+	403+	899-	17 842-	787-
a_5	6 176+	3 494+		1 224-	866+	
August 18						
a_0	94-9562 243+	19-3283 555+	0-9977 4774+	205-1728 378+	5-4886 543-	0-9313 7588+
a_1	15-3474 960+	0-3675 865+	0-0015 6844+	12-0033 877+	4-0270 755-	0-0113 5515-
a_2	714 157+	6411 091-	13 4099-	766 741-	1724 122+	7 9026+
a_3	530 636-	88 865-	9359 -	244 850+	242 114+	1 2352+
a_4	23 675-	59 214+	1083+	6 891-	13 368-	898-
a_5	8 982+	241+		861-	887+	
August 19						
a_0	110-3206 032+	19-0518 918+	0-9978 9243+	217-1232 612+	9-3203 544-	0-9209 2553+
a_1	15-3261 549+	0-9174 892-	0-0013 5093-	11-9203 078+	3-6145 210-	0-0094 4001-
a_2	929 682-	6320 053-	15 5520-	82 139-	2379 137+	11 0697+
a_3	536 995-	148 363+	4931 -	208 773+	197 365+	8730+
a_4	23 286+	59 992+	1596+	11 151-	8 849-	879-
a_5	6 305+	3 368-		709-	630+	
August 20						
August 21						
August 22						
August 23						
August 24						
August 25						
August 26						
August 27						

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	229.0550 463+	12.6780 470-	0.9126 7100+	329.3623 957+	12.7332 009-	0.9380 5020+
a_1	11.9616 970+	3.0827 088-	0.0069 9935-	12.7540 470+	3.2776 627+	0.0098 6880+
a_2	470 174+	2924 449+	13 1633+	245 853-	3419 483+	1 0862+
a_3	157 172+	168 038+	5204+	21 598+	229 396-	1 1050-
a_4	14 744-	5 659-	805-	19 808+	18 394-	291+
a_5	554-	224+		290-	459+	
August 29						
a_0	241.0779 481+	15.4520 506-	0.9070 3198+	342.0959 691+	9.1383 231-	0.9479 2003+
a_1	12.0967 093+	2.4495 599-	0.0042 4274-	12.7191 331+	3.8856 122+	0.0097 6620+
a_2	847 670+	3396 846+	14 2443+	65 124-	2625 521+	2 0453+
a_3	92 867+	147 381+	1989+	97 531+	298 307-	9864-
a_4	17 627-	4 543-	724-	18 283+	16 069-	574+
a_5	196-	225-		968-	592+	
August 30						
a_0	253.2669 287+	17.5476 647-	0.9042 2632+	354.8200 743+	5.0215 372-	0.9573 8880+
a_1	12.2869 552+	1.7279 069-	0.0013 6317-	12.7421 958+	4.3150 931+	0.0090 8419+
a_2	1018 531+	3809 468+	14 4087+	327 480+	1640 112+	4 6551-
a_3	20 773+	126 735+	901-	160 649+	356 605-	7521-
a_4	18 719-	5 723-	659-	13 426+	13 102-	746+
a_5	454+	605-		1 528-	679+	
August 31						
a_0	265.6559 878+	18.8825 840-	0.9042 8843+	7.6122 728+	0.5793 356-	0.9659 3973+
a_1	12.4896 338+	0.9305 846-	0.0014 6521+	12.8604 921+	4.5312 329+	0.0079 5743+
a_2	973 076+	4149 271+	13 7450+	874 704+	498 468+	6 4639-
a_3	49 100-	97 679+	3534-	198 723+	402 146-	4473-
a_4	16 456-	8 844-	605-	5 818+	9 750-	739+
a_5	1 264+	801-		2 121-	807+	
September 1						
a_0	278.2365 002+	19.3894 383-	0.9070 8674+	20.5804 773+	3.9606 351+	0.9732 1343+
a_1	12.6635 698+	0.0753 651-	0.0040 8397+	13.0963 161+	4.5067 865+	0.0065 6004+
a_2	739 711+	4381 215+	12 3236+	1484 572+	758 415-	7 3685-
a_3	101 924-	54 324+	5963-	200 431+	432 893-	1463-
a_4	9 973-	12 953-	542-	4 810-	5 817-	545+
a_5	1 887+	744-		2 750-	1 113+	
September 2						
a_0	290.9630 400+	19.0226 193-	0.9123 3802+	33.8445 377+	8.3478 204+	0.9790 2743+
a_1	12.7778 888+	0.8116 218+	0.0063 4811+	13.4500 603+	4.2234 660+	0.0050 6424+
a_2	393 002+	4459 012+	10 2128+	2029 460+	2080 882-	7 4905-
a_3	122 907-	4 777-	8150-	153 544+	444 684-	738+
a_4	278-	16 743-	437-	18 846-	373-	227+
a_5	1 967+	470-		3 034-	1 709+	
September 3						
a_0	303.7681 072+	17.7672 953-	0.9196 2154+	47.5107 104+	12.3188 634+	0.9833 5226+
a_1	12.8204 888+	1.6950 591+	0.0081 2866+	13.8929 615+	3.6745 906+	0.0035 9736+
a_2	42 315+	4339 517+	7 5109+	2346 583+	3400 080-	7 1430-
a_3	104 649-	76 242-	9925-	48 369+	428 650-	1630+
a_4	9 769+	19 103-	263-	34 688-	8 177+	103-
a_5	1 439+	103-		2 135-	2 480+	
September 4						
a_0	316.5834 835+	15.6478 293-	0.9283 9941+	61.6394 847+	15.6116 467+	0.9862 5058+
a_1	12.8021 834+	2.5323 977+	0.0093 2256+	14.3618 491+	2.8704 907+	0.0022 1350+
a_2	198 619-	3995 150+	4 3834+	2262 101+	4612 126-	6 7230-
a_3	51 683-	153 490-	1 1000-	110 149-	370 930-	1169+
a_4	17 023+	19 582-	11-	46 110-	20 885+	331-
a_5	569+	229+		617+	2 884+	
September 5						
September 6						
September 7						
September 8						
September 9						
September 10						
September 11						
September 12						

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	76.2119 798+	17.9862 086+	0.9878 0016+	188.4241 719+	0.2721 907+	0.9470 8710+
a_1	14.7630 933+	1.8465 815+	0.0008 9067+	12.3684 787+	4.3730 347-	0.0102 6660-
a_2	1661 172+	5570 686-	6 5727-	1428 981-	412 481+	1 5428-
a_3	286 299-	258 971-	222-	217 246+	349 851+	1 1502+
a_4	42 972-	35 864+	379-	601+	14 467-	155+
a_5	4 376+	2 174+		1 240-	66+	
September 14						
a_0	91.1087 008+	19.2536 282+	0.9880 2755+	200.6714 132+	4.0260 508-	0.9367 8277+
a_1	14.9944 395+	0.6701 832+	0.0004 4571-	12.1474 771+	4.1913 364-	0.0102 2393-
a_2	588 382+	6110 625-	6 8618-	786 028-	1375 910+	1 9907+
a_3	413 262-	94 889-	1799-	207 483+	292 811+	1 2101+
a_4	19 838-	47 106+	223-	5 518-	14 035-	168-
a_5	6 473+	225+		839-	348+	
September 15						
a_0	106.1193 159+	19.3079 931+	0.9868 7544+	212.7604 002+	8.0518 838-	0.9268 7723+
a_1	14.9834 372+	0.5614 562-	0.0018 8098-	12.0498 903+	3.8337 512-	0.0094 6952-
a_2	705 497-	6110 434-	7 5255-	205 067-	2173 621+	5 5125+
a_3	428 683-	94 536+	2729-	177 177+	240 181+	1 1396+
a_4	13 933+	48 045+	93+	9 678-	12 217-	406-
a_5	5 034+	1 974-		584-	404+	
September 16						
a_0	120.9912 317+	18.1495 541+	0.9842 1556+	224.8064 753+	11.6454 360-	0.9180 6886+
a_1	14.7218 190+	1.7369 528-	0.0034 6424-	12.0578 671+	3.3316 573-	0.0080 4140-
a_2	1857 564-	5558 378-	8 2770-	262 552+	2824 915+	8 6832+
a_3	324 651-	266 272+	2356-	132 769+	195 296+	9745+
a_4	39 395+	37 625+	466+	12 623-	10 142-	548-
a_5	1 401+	3 191-		341-	295+	
September 17						
a_0	135.4989 088+	15.8868 340+	0.9799 0472+	236.9025 782+	14.6760 570-	0.9109 8774+
a_1	14.2693 660+	2.7552 924-	0.0051 7165-	12.1449 893+	2.7119 951-	0.0060 3435-
a_2	2581 234-	4565 791-	8 6948-	581 709+	3352 903+	11 2755+
a_3	154 796-	384 889+	447-	79 079+	157 563+	7536+
a_4	45 725+	21 217+	767+	14 385-	8 646-	620-
a_5	1 625-	3 113-		12+	94+	
September 18						
a_0	149.4990 818+	12.7152 618+	0.9738 6679+	249.1122 089+	17.0378 607-	0.9061 5010+
a_1	13.7241 564+	3.5460 526-	0.0068 9330-	12.2793 071+	1.9975 573-	0.0035 7797-
a_2	2787 633-	3314 976-	8 3650-	732 745+	3774 655+	13 1631+
a_3	11 162+	439 101+	2692+	21 942+	123 799+	5052+
a_4	36 855+	5 486+	886+	14 374-	8 185-	659-
a_5	2 777-	2 273-		507+	117-	
September 19						
a_0	162.9489 988+	8.8819 430+	0.9661 7276+	261.4655 980+	18.6464 029-	0.9039 3237+
a_1	13.1833 318+	4.0762 588-	0.0084 5009-	12.4269 432+	1.2088 195-	0.0008 2016-
a_2	2560 844-	1987 488-	7 0292-	717 398+	4095 765+	14 2819+
a_3	130 916+	438 879+	6302+	30 180-	89 795+	2419+
a_4	22 608+	5 851-	783+	11 821-	8 802-	697-
a_5	2 551-	1 288-		1 043+	275-	
September 20						
a_0	175.8913 435+	4.6501 093+	0.9570 9060+	273.9601 853+	19.4375 741-	0.9045 5761+
a_1	12.7182 064+	4.3450 763-	0.0096 3554-	12.5571 625+	0.3663 862-	0.0020 8090+
a_2	2057 963-	718 823-	4 6775-	566 379+	4309 589+	14 5875+
a_3	196 231+	403 067+	9474+	66 822-	51 794+	365-
a_4	9 810+	12 189-	505+	6 495-	10 205-	751-
a_5	1 858-	478-		1 415+	354-	
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	286.5667 955+	19.3688 779-	0.9080 8610+	29.6018 700+	7.0758 751+	0.9888 2196+
a_1	12.6485 012+	0.5068 107+	0.0049 5740+	13.6663 390+	4.4875 044+	0.0066 3265+
a_2	341 117+	4400 196+	14 0252+	2174 940+	1696 981-	14 4724-
a_3	78 639-	7 415+	3371-	122 836+	511 436-	5573-
a_4	742+	11 989-	816-	21 813-	4 331-	1619+
a_5	1 438+	380-		3 100-	2 924+	
September 30						
a_0	299.2417 625+	18.4225 429-	0.9144 0416+	43.4954 952+	11.3423 972+	0.9939 6783+
a_1	12.6941 483+	1.3840 889+	0.0076 2868+	14.1279 039+	3.9944 079+	0.0036 3582+
a_2	124 049+	4346 709+	12 5231+	2381 449+	3227 994-	15 1814-
a_3	61 497-	44 349-	6650-	5 365+	499 199-	1028+
a_4	8 064+	13 886-	859-	38 112-	10 546+	1336+
a_5	1 083+	395-		1 783-	3 498+	
October 1						
a_0	311.9430 808+	16.6096 461-	0.9232 1007+	57.8580 909+	14.9654 902+	0.9961 0914+
a_1	12.7042 755+	2.2343 741+	0.0098 9942+	14.5896 703+	3.2050 162+	0.0006 8383+
a_2	1 220-	4126 393+	10 0138+	2150 937+	4627 265-	14 0893-
a_3	18 751-	103 854-	1 0124-	163 031-	422 265-	6431+
a_4	13 536+	15 870-	823-	47 721-	28 534+	759+
a_5	491+	411-		1 510+	3 130+	
October 2						
a_0	324.6467 618+	13.9746 462-	0.9340 0140+	72.6419 308+	17.6687 199+	0.9954 5593+
a_1	12.7040 654+	3.0219 431+	0.0115 6551+	14.9526 194+	2.1658 608+	0.0019 1075-
a_2	28 655+	3715 495+	6 4887+	1390 673+	5691 475-	11 7242-
a_3	39 930+	171 417-	1 3476-	336 670-	277 791-	9450+
a_4	15 989+	17 969-	635-	39 800-	44 697+	120+
a_5	158-	369-		5 333+	1 450+	
October 3						
a_0	337.3592 689+	10.6001 290-	0.9460 7467+	87.6965 039+	19.2422 688+	0.9924 6847+
a_1	12.7280 916+	3.7062 453+	0.0124 3354+	15.1165 013+	0.9628 296+	0.0039 6732-
a_2	242 804+	3089 727+	2 0774+	195 419+	6242 159-	8 8324-
a_3	101 945+	246 863-	1 6084-	441 778-	85 894-	9860+
a_4	15 194+	19 905-	240-	11 610-	52 003+	373-
a_5	784-	164-		6 693+	997-	
October 4						
a_0	350.1232 764+	6.6116 042-	0.9585 5272+	102.7878 776+	19.5773 936+	0.9877 1277+
a_1	12.8129 209+	4.2420 884+	0.0123 5690+	15.0217 519+	0.2910 700-	0.0054 5298-
a_2	631 971+	2228 053+	2 8735-	1132 457-	6197 869-	6 1060-
a_3	154 502+	327 850-	1 7090-	422 592-	111 089+	8281+
a_4	11 304+	20 840-	345+	23 124+	46 509+	617-
a_5	1 435-	300+		4 342+	2 850-	
October 5						
a_0	3.0158 316+	2.1815 496-	0.9704 5482+	117.6568 713+	18.6820 115+	0.9817 2583+
a_1	12.9894 693+	4.5811 584+	0.0112 8329+	14.6798 996+	1.4801 391-	0.0064 5046-
a_2	1148 963+	1122 440+	7 7738-	2218 067-	5614 140-	3 9916-
a_3	184 938+	407 786-	1 5699-	288 869-	268 392+	5743+
a_4	4 172+	19 447-	992+	44 798+	31 645+	610-
a_5	2 183-	1 041+		445+	3 227-	
October 6						
a_0	16.1388 899+	2.4692 337+	0.9808 1365+	132.0906 017+	16.6701 393+	0.9749 2754+
a_1	13.2753 196+	4.6760 537+	0.0092 9726+	14.1677 641+	2.5114 043-	0.0071 0094-
a_2	1706 965+	207 194-	11 8735-	2811 556-	4651 407-	2 6291-
a_3	179 378+	474 618-	1 1645-	106 774-	363 124+	3258+
a_4	6 819-	14 292-	1484+	46 203+	15 223+	421-
a_5	2 918-	1 981+		2 229-	2 462-	

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			October 23			
a_0	145-9709 302+	13-7311 828+	0-9675 9207+	245-0581 484+	16-5095 065-	0-9071 8484+
a_1	13-5907 865+	3-3278 891-	0-0075 4584-	12-2892 426+	2-2807 584-	0-0046 4196-
a_2	2877 052-	3495 310-	1 8954-	692 024+	3714 222+	8 9398+
a_3	55 304+	399 993+	1562+	9 397-	145 326+	7402+
a_4	34 369+	2 954+	141-	15 050-	11 852-	239-
a_5	2 944-	1 420-		865+	100-	
October 16			October 24			
a_0	159-2826 846+	10-0939 153+	0-9598 7091+	257-4142 352+	18-4055 054-	0-9035 0848+
a_1	13-0442 438+	3-9064 807-	0-0078 8367-	12-4192 415+	1-4991 071-	0-0026 4151-
a_2	2534 398-	2291 783-	1 5026-	582 197+	4078 082+	11 0125+
a_3	163 586+	398 054+	1013+	60 634-	96 981+	6440+
a_4	19 389+	3 986-	137+	10 640-	12 371-	377-
a_5	2 492-	655-		1 408+	15+	
October 17			October 25			
a_0	172-0915 367+	5-9975 975+	0-9518 4848+	269-8847 098+	19-4883 417-	0-9020 2884+
a_1	12-5929 500+	4-2473 428-	0-0081 4832-	12-5139 390+	0-6593 371-	0-0002 6092-
a_2	1952 229-	1128 072-	1 1105-	350 560+	4294 953+	12 7138+
a_3	216 631+	375 788+	1593+	88 988-	47 719+	4931+
a_4	6 941+	7 129-	339+	3 430-	12 279-	509-
a_5	1 770-	264-		1 629+	137+	
October 18			October 26			
a_0	184-5114 440+	1-6742 870+	0-9436 0843+	282-4246 259+	19-7146 258-	0-9030 8352+
a_1	12-2693 855+	4-3632 045-	0-0083 0906-	12-5567 968+	0-2091 262+	0-0024 0943+
a_2	1278 377-	46 116-	4267-	79 329+	4365 814+	13 8833+
a_3	227 024+	344 712+	2988+	86 540-	6-	2903+
a_4	1 815-	8 378-	424+	4 884+	11 540-	654-
a_5	1 204-	127-		1 416+	175+	
October 19			October 27			
a_0	196-6753 923+	2-6599 085-	0-9352 9082+	294-9813 316+	19-0700 553-	0-9069 0377+
a_1	12-0804 894+	4-2724 288-	0-0082 8778-	12-5493 617+	1-0777 585+	0-0052 4702+
a_2	620 232-	936 488+	7232+	136 815-	4298 314+	14 3564+
a_3	207 930+	309 944+	4720+	53 150-	44 491-	297+
a_4	7 770-	8 983-	389+	12 049+	10 593-	825-
a_5	848-	110-		881+	51+	
October 20			October 28			
a_0	208-7137 897+	6-8086 032-	0-9271 2646+	307-5129 898+	17-5679 687-	0-9135 8114+
a_1	12-0152 903+	3-9957 959-	0-0079 8594-	12-5113 129+	1-9198 618+	0-0080 9418+
a_2	51 542-	1811 326+	2 3691+	215 166-	4101 800+	13 9441+
a_3	168 530+	272 900+	6300+	3 495+	86 522-	3003-
a_4	12 006-	9 525-	264+	16 443+	10 279-	1018-
a_5	581-	135-		259+	241-	
October 21			October 29			
a_0	220-7395 200+	10-5969 426-	0-9194 4306+	320-0048 057+	15-2476 311-	0-9230 2952+
a_1	12-0504 484+	3-5555 383-	0-0073 1254-	12-4760 343+	2-7100 328+	0-0107 5219+
a_2	376 196+	2571 525+	4 4125+	103 437-	3778 152+	12 4272+
a_3	114 895+	233 436+	7365+	71 545+	130 266-	7093-
a_4	14 964-	10 205-	94+	17 695+	11 475-	1190-
a_5	248-	161-		281-	622-	
October 22			October 30			
a_0	232-8375 564+	13-8730 214-	0-9126 4636+	332-4793 922+	12-1740 194-	0-9349 4160+
a_1	12-1540 475+	2-9753 652-	0-0062 0534-	12-4837 475+	3-4216 819+	0-0129 7721+
a_2	628 614+	3208 986+	6 6728+	214 560+	3312 271+	9 5836+
a_3	52 854+	191 004+	7737+	139 240+	182 561-	1 1909-
a_4	16 272-	11 030-	82-	16 288+	14 657-	1249-
a_5	248+	159-		749-	930-	

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						
a_0	345.0000 736+	8.4409 253-	0.9487 4559+	98.6068 979+	19.8397 224+	1.0031 1026+
a_1	12.5745 715+	4.0230 399+	0.0144 8664+	15.5524 189+	0.0830 627+	0.0075 0330-
a_2	722 530+	2667 318+	5 2675+	1214 911-	6731 417-	14 2157-
a_3	196 566+	250 483-	1 7009-	579 268-	96 858+	1 8691+
a_4	12 627+	19 487-	1060-	28 798+	64 089+	28-
a_5	1 314-	931-		6 829+	4 583-	
November 1						
a_0	357.6676 862+	4.1782 437-	0.9635 7829+	113.9834 616+	19.2652 796+	0.9943 7200+
a_1	12.7824 406+	4.4730 991+	0.0149 8738+	15.1505 828+	1.2108 204-	0.0097 8692-
a_2	1374 880+	1789 598+	4537-	2711 646-	6102 329-	8 6488-
a_3	233 429+	337 390-	2 1385-	399 315-	306 993+	1 8444+
a_4	6 217+	24 433-	493-	62 909+	39 901+	779-
a_5	2 186-	345-		538+	5 204-	
November 2						
a_0	10.6113 608+	0.4375 984+	0.9783 0154+	128.8292 929+	17.4783 952+	0.9838 9685+
a_1	13.1288 376+	4.7198 574+	0.0142 3535+	14.5138 867+	2.3258 284-	0.0109 9457-
a_2	2090 616+	627 324+	7 1351-	3526 973-	4994 067-	3 5932-
a_3	235 740+	437 769-	2 3463-	144 667-	415 479+	1 5199+
a_4	4 631-	26 504-	466+	64 127+	13 345+	1108-
a_5	3 395-	1 043+		3 556-	3 527-	
November 3						
a_0	23.9720 314+	5.1738 652+	0.9915 9343+	142.9820 726+	14.6956 897+	0.9726 8388+
a_1	13.6141 319+	4.7039 138+	0.0121 2311+	13.7889 639+	3.1964 213-	0.0113 0160-
a_2	2736 052+	834 607-	13 8592-	3611 930-	3702 806-	3022+
a_3	182 739+	532 144-	2 1593-	75 812+	434 775+	1 0679+
a_4	21 942-	21 492-	1601+	45 240+	4 135-	1091-
a_5	4 366-	3 149+		4 282-	1 453-	
November 4						
a_0	37.8754 115+	9.7392 696+	1.0021 3071+	156.4215 206+	11.1719 065+	0.9615 0838+
a_1	14.2052 050+	4.3703 293+	0.0087 6761+	13.1052 778+	3.8089 290-	0.0109 6447-
a_2	3108 789+	2528 462-	19 3498-	3155 918-	2437 771-	2 8579+
a_3	51 821+	585 443-	1 5029-	214 497+	404 502+	6268+
a_4	44 897-	5 482-	2478+	23 513+	11 042-	866-
a_5	3 569-	5 236+		3 284-	82-	
November 5						
a_0	52.3918 308+	13.7981 840+	1.0088 3782+	169.2346 793+	7.1585 383+	0.9508 8372+
a_1	14.8227 703+	3.6894 303+	0.0045 4603+	12.5462 082+	4.1795 898-	0.0102 3951-
a_2	2958 964+	4265 174-	22 3658-	2404 169-	1291 298-	4 2281+
a_3	161 048-	554 711-	4860-	276 391+	359 843+	2789+
a_4	64 207-	21 669+	2679+	7 204+	11 168-	553-
a_5	608+	5 808+		2 099-	473+	
November 6						
a_0	67.4880 328+	17.0083 735+	1.0111 2545+	181.5686 201+	2.8847 334+	0.9410 8938+
a_1	15.3408 768+	2.6815 512+	0.0000 3434+	12.1501 246+	4.3341 273-	0.0093 3234-
a_2	2096 660+	5741 031-	22 2340-	1552 735-	274 026-	4 7427+
a_3	408 264-	411 281-	6077+	284 669+	319 913+	584+
a_4	61 155-	51 952+	2103+	3 098-	8 644-	236-
a_5	6 916+	3 507+		1 324-	484+	
November 7						
a_0	82.9923 253+	19.0802 394+	1.0090 1819+	193.5914 959+	1.4456 212-	0.9322 3479+
a_1	15.6167 289+	1.4324 900+	0.0041 4597-	11.9230 777+	4.2961 746-	0.0083 7572-
a_2	574 444+	6628 040-	19 1812-	730 535-	638 697+	4 7846+
a_3	581 962-	170 921-	1 4570+	259 259+	290 027+	339-
a_4	24 160-	69 847+	1046+	9 588-	6 157-	33+
a_5	10 115+	955-		957-	221+	

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 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	205.4663 915+	5.6495 170-	0.9243 3447+	303.7682 478+	18.3718 147-	0.9052 1701+
a_1	11.8504 348+	4.0837 796-	0.0074 2763-	12.4120 844+	1.6391 511+	0.0050 7496+
a_2	19 856-	1474 052+	4 7087+	600 829-	4086 398+	12 8058+
a_3	211 445+	267 409+	178-	31 836-	98 381-	3104+
a_4	14 354-	5 040-	224+	21 122+	9 370-	586-
a_5	778-	134-		333+	430+	
November 17			November 25			
a_0	217.3344 720+	9.5596 680-	0.9173 7817+	316.1192 112+	16.3347 558-	0.9115 9772+
a_1	11.9037 671+	3.7108 301-	0.0064 8224-	12.2909 823+	2.4233 829+	0.0077 0578+
a_2	520 569+	2244 692+	4 7930+	566 295-	3739 348+	13 3768+
a_3	146 412+	245 720+	749+	55 589+	131 836-	772+
a_4	18 327-	5 745-	324+	22 654+	7 139-	853-
a_5	516-	460-		338-	48-	
November 18			November 26			
a_0	229.3030 528+	13.0220 774-	0.9113 8597+	328.3613 545+	13.5513 404-	0.9206 4037+
a_1	12.0442 162+	3.1907 038-	0.0054 8816-	12.2032 921+	3.1288 215+	0.0103 7017+
a_2	844 660+	2942 774+	5 2128+	266 997-	3300 527+	13 0870+
a_3	68 267+	218 034+	2073+	142 596+	161 219-	2636-
a_4	21 051-	8 121-	335+	20 876+	7 364-	1153-
a_5	39+	649-		720-	646-	
November 19			November 27			
a_0	241.4364 606+	15.8975 773-	0.9064 4317+	340.5542 220+	10.1093 891-	0.9322 8134+
a_1	12.2252 286+	2.5403 114-	0.0043 6999-	12.2006 613+	3.7372 918+	0.0128 6234+
a_2	923 535+	3541 649+	6 0339+	278 850+	2766 214+	11 5956+
a_3	15 047-	179 087+	3434+	218 707+	197 450-	7269-
a_4	20 948-	11 472-	271+	17 312+	10 659-	1434-
a_5	905+	609-		1 032-	1 191-	
November 20			November 28			
a_0	253.7505 337+	18.0670 232-	0.9027 1362+	352.8062 670+	6.1164 058-	0.9462 1620+
a_1	12.3974 960+	1.7831 483-	0.0030 4933-	12.3284 516+	4.2264 408+	0.0149 0596+
a_2	761 771+	4003 977+	7 2233+	1028 554+	2097 981+	8 5500+
a_3	89 272-	127 282+	4533+	277 283+	252 125-	1 3080-
a_4	16 343-	14 610-	155+	12 345+	16 798-	1576-
a_5	1 805+	314-		1 625-	1 438-	
November 21			November 29			
a_0	266.2138 258+	19.4385 379-	0.9004 3350+	5.2663 743+	1.7072 030-	0.9618 3061+
a_1	12.5174 341+	0.9501 685-	0.0014 6247-	12.6214 713+	4.5629 620+	0.0161 6044+
a_2	413 979+	4295 026+	8 6716+	1918 265+	1226 385+	3 6866+
a_3	136 332-	65 963+	5161+	309 697+	333 426-	1 9528-
a_4	7 061-	16 201-	5+	4 521+	24 366-	1384-
a_5	2 277+	134+		2 845-	1 000-	
November 22			November 30			
a_0	278.7585 462+	19.9542 142-	0.8998 8987+	18.1108 094+	2.9425 184+	0.9781 5061+
a_1	12.5576 440+	0.0777 873-	0.0004 2692+	13.0984 172+	4.6979 671+	0.0162 5649+
a_2	14 573-	4397 062+	10 2180+	2846 057+	69 832+	2 9789-
a_3	141 943-	2 722+	5190+	298 271+	439 928-	2 5257-
a_4	4 614+	15 457-	166-	9 540-	29 941-	654-
a_5	2 039+	521+		4 706-	628+	
November 23			December 1			
a_0	291.3012 039+	19.5935 166-	0.9013 8882+	31.5222 347+	7.6005 446+	0.9938 5011+
a_1	12.5150 105+	0.7965 198+	0.0026 1956+	13.7509 394+	4.5682 963+	0.0148 7677+
a_2	392 310-	4317 719+	11 6690+	3636 480+	1423 389-	10 9077-
a_3	103 551-	53 824-	4533+	212 287+	551 661-	2 8030-
a_4	14 952+	12 717-	360-	33 686-	27 304-	653+
a_5	1 243+	643+		6 143-	3 665+	

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	45.6540 679+	11.9689 719+	1.0073 6235+	166.2318 043+	8.4230 811+	0.9625 6149+
a_1	14.5253 780+	4.1090 348+	0.0118 8046+	12.8863 324+	4.1918 598-	0.0143 3285-
a_2	4009 501+	3205 503-	18 8769-	3332 648-	1468 434-	4 4973+
a_3	17 237+	622 298-	2 5406-	308 459+	408 443+	1 2941+
a_4	66 425-	8 681-	2216+	15 843+	21 015-	1421-
a_5	4 354-	7 102+		3 212-	823+	
December 3			December 11			
a_0	60.5750 417+	15.6950 688+	1.0171 2323+	178.8169 807+	4.1232 029+	0.9487 9357+
a_1	15.3037 104+	3.2813 243+	0.0074 3168+	12.3170 728+	4.3710 080-	0.0131 0203-
a_2	3618 798+	5053 212-	25 1338-	2344 294-	360 924-	7 5361+
a_3	287 747-	585 528-	1 6292-	340 535+	332 827+	7222+
a_4	90 402-	28 562+	3372+	102+	16 577-	1121-
a_5	3 103+	8 054+		1 784-	1 179+	
December 4			December 12			
a_0	76.2031 273+	18.4161 807+	1.0219 1233+	190.9335 094+	0.2521 545-	0.9365 0616+
a_1	15.9065 465+	2.1104 704+	0.0020 5122+	11.9495 242+	4.3493 862-	0.0114 2299-
a_2	2244 347+	6557 581-	27 9944-	1339 878-	549 906+	9 0411+
a_3	613 215-	393 117-	2424-	323 509+	278 186+	2736+
a_4	73 692-	70 953+	3504+	8 553-	10 530-	768-
a_5	12 354+	3 894+		1 102-	959+	
December 5			December 13			
a_0	92.2666 533+	19.8390 660+	1.0211 7490+	202.7804 312+	4.5196 886-	0.9260 0697+
a_1	16.1481 532+	0.7113 395+	0.0034 8006-	11.7746 292+	4.1596 823-	0.0095 6338-
a_2	86 758+	7272 265-	26 6485-	431 675-	1330 882+	9 4118+
a_3	783 659-	74 376-	1 1886+	278 399+	245 381+	322-
a_4	7 292-	90 477+	2540+	13 942-	5 673-	433-
a_5	13 796+	3 272-		901-	483+	
December 6			December 14			
a_0	108.3457 668+	19.8244 620+	1.0151 7423+	214.5382 485+	8.5222 637-	0.9173 7724+
a_1	15.9343 796+	0.7308 763-	0.0083 5155-	11.7657 866+	3.8219 202-	0.0077 0797-
a_2	2169 661-	6985 557-	21 6055-	310 853+	2037 816+	9 0645+
a_3	679 334-	252 344+	2 2108+	213 676+	227 192+	2036-
a_4	64 085+	72 004+	1011+	18 475-	3 248-	146-
a_5	5 668+	7 602-		817-	81-	
December 7			December 15			
a_0	124.0022 222+	18.4267 044+	1.0048 9331+	226.3545 589+	12.1180 161-	0.9105 5390+
a_1	15.3251 054+	2.0272 834-	0.0119 6902-	11.8842 619+	3.3475 396-	0.0059 6199-
a_2	3766 716-	5872 780-	14 4093-	832 838+	2699 091+	8 3730+
a_3	371 218-	464 745+	2 6021+	131 799+	213 092+	2601-
a_4	90 742+	32 225+	386-	22 719-	3 696-	81+
a_5	3 004-	6 762-		496-	605-	
December 8			December 16			
a_0	138.9223 079+	15.8611 639+	0.9917 3970+	238.3329 630+	15.1747 675-	0.9054 0400+
a_1	14.4951 876+	3.0529 030-	0.0140 8581-	12.0810 345+	2.7455 751-	0.0043 6219-
a_2	4366 298-	4352 849-	6 8615-	1086 929+	3310 124+	7 6461+
a_3	40 182-	527 890+	2 4279+	36 420+	192 071+	2256-
a_4	73 392+	1 846-	1243-	25 405-	6 837-	243+
a_5	6 149-	3 439-		294+	933-	
December 9			December 17			
a_0	152.9835 717+	12.4252 365+	0.9771 9810+	250.5238 213+	17.5709 001-	0.9017 8630+
a_1	13.6361 565+	3.7675 605-	0.0147 7953-	12.2993 326+	2.0291 302-	0.0028 9091-
a_2	4108 125-	2814 571-	3327-	1046 686+	3835 961+	7 1179+
a_3	192 376+	487 745+	1 9147+	61 591-	155 414+	1261-
a_4	41 686+	18 515-	1529-	24 014-	11 672-	334+
a_5	5 177-	609-		1 466+	901-	

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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			December 26			
a_0	262.9194 084+	19.2021 500-	0.8995 9790+	1.2099 876+	3.4136 048-	0.9423 6093+
a_1	12.4813 205+	1.2204 323-	0.0014 9181-	12.1216 928+	4.3445 513+	0.0134 5970+
a_2	732 509+	4223 145+	6 9404+	1163 419+	1374 272+	9 4536+
a_3	142 402-	99 973+	98+	318 534+	265 812-	7233-
a_4	16 493-	16 322-	352+	11 842+	13 361-	1491-
a_5	2 508+	461-		1 745-	1 448-	
December 19			December 27			
a_0	275.4583 411+	19.9919 488-	0.8988 0462+	13.4808 854+	1.0403 116+	0.9566 7875+
a_1	12.5797 584+	0.3525 698-	0.0000 8671-	12.4537 993+	4.5335 941+	0.0150 7377+
a_2	231 476+	4420 520+	7 1792+	2172 674+	482 138+	6 3850+
a_3	183 142-	30 456+	1527+	347 621+	333 536-	1 3281-
a_4	3 557-	18 654-	299+	3 487+	20 964-	1642-
a_5	2 788+	205+		3 161-	1 135-	
December 20			December 28			
a_0	288.0428 560+	19.9012 658-	0.8994 5409+	26.1867 467+	5.5865 560+	0.9722 4179+
a_1	12.5710 814+	0.5333 128+	0.0014 0692+	12.9924 319+	4.5210 096+	0.0158 8657+
a_2	311 364-	4402 035+	7 8131+	3204 870+	655 698-	1 4231+
a_3	169 870-	41 793-	2742+	328 713+	427 836-	2 0011-
a_4	10 716+	17 512-	182+	12 138-	27 266-	1409-
a_5	2 117+	756+		5 343-	400+	
December 21			December 29			
a_0	300.5670 975+	18.9336 044-	0.9016 7156+	39.5307 887+	9.9965 256+	0.9880 5648+
a_1	12.4631 917+	1.3945 554+	0.0030 5908+	13.7244 911+	4.2508 165+	0.0155 1438+
a_2	735 492-	4179 174+	8 7393+	4064 627+	2098 897-	5 3996-
a_3	106 501-	104 182-	3485+	225 895+	531 062-	2 5861-
a_4	21 369+	13 547-	8+	39 661-	25 911-	577-
a_5	940+	922+		6 923-	3 585+	
December 22			December 30			
a_0	312.9483 208+	17.1328 123-	0.9056 3951+	53.6796 735+	13.9821 135+	1.0027 6654+
a_1	12.2931 596+	2.1941 775+	0.0049 1183+	14.5858 623+	3.6631 506+	0.0136 3547+
a_2	917 401-	3794 588+	9 7827+	4434 753+	3811 671-	13 4595-
a_3	12 225-	149 301-	3534+	438-	596 671-	2 8332-
a_4	25 914+	8 786-	217-	76 777-	7 769-	869+
a_5	103-	660+		4 436-	7 488+	
December 23			December 31			
a_0	325.1510 989+	14.5749 187-	0.9115 6278+	68.7008 460+	17.2044 018+	1.0147 8145+
a_1	12.1163 251+	2.9051 198+	0.0069 6574+	15.4397 631+	2.7224 525+	0.0101 2842+
a_2	799 653-	3300 580+	10 7043+	3928 072+	5573 131-	21 3864-
a_3	90 054+	178 160-	2684+	346 709-	552 254-	2 4818-
a_4	25 205+	5 409-	492-	101 358-	31 661+	2538+
a_5	687-	113+		4 710+	8 717+	
December 24			December 32			
a_0	337.1989 158+	11.3580 866-	0.9196 2087+	84.4890 806+	19.3183 537+	1.0225 4844+
a_1	11.9931 487+	3.5096 798+	0.0091 6746+	16.0831 876+	1.4591 678+	0.0052 0828+
a_2	385 148-	2734 776+	11 2043+	2327 202+	6952 392-	27 2743-
a_3	183 860+	199 042-	731+	699 470-	341 156-	1 4370-
a_4	21 681+	4 837-	816-	75 733-	77 754+	3678+
a_5	912-	536-		14 839+	3 945+	
December 25			December 33			
a_0	349.1740 125+	7.5953 707-	0.9299 0792+			
a_1	11.9794 931+	3.9947 189+	0.0113 9764+			
a_2	287 410+	2103 259+	10 9234+			
a_3	261 332+	224 089-	2528-			
a_4	17 201+	7 576-	1169-			
a_5	1 123-	1 124-				

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.