

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:

$$a_0 + a_1 p + a_2 p^2 + a_3 p^3 + a_4 p^4 + a_5 p^5$$

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:

$$(((a_5 p + a_4)p + a_3)p + a_2)p + a_1)p + a_0$$

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 2018 January 21^d 13^h 23^m 48^s32 UT1, using an assumed value of $\Delta T = 69^s$.

$$\text{TT} = 13^{\text{h}} 24^{\text{m}} 57^{\text{s}}32, \text{ hence } p = 0.558\ 996\ 76$$

	right ascension	declination	horizontal parallax
b_1	$\overset{\circ}{-}0.000\ 0997$	$\overset{\circ}{-}0.000\ 0342$	$\overset{\circ}{-}0.000\ 003\ 46$
b_2	$+0.001\ 9183$	$-0.000\ 4704$	$+0.000\ 012\ 81$
b_3	$+0.021\ 0666$	$-0.024\ 5702$	$+0.000\ 733\ 52$
b_4	$-0.019\ 4753$	$+0.199\ 9198$	$+0.008\ 442\ 33$
b_5	$+11.922\ 5004$	$+3.977\ 9538$	$\pi = +0.927\ 931\ 72$
b_6	$\alpha = 353.011\ 6401$	$\delta = -6.417\ 1213$	
	$= 23^{\text{h}} 32^{\text{m}} 02^{\text{s}}794$	$= -6^\circ 25' 01''64$	$= 55' 40''554$

DAILY POLYNOMIAL COEFFICIENTS

	Apparent Right Ascension	Apparent Declination	Horizontal Parallax	Apparent Right Ascension	Apparent Declination	Horizontal Parallax
	January 0			January 8		
a_0	68.7008 460+	17.2044 018+	1.0147 8145+	187.5631 205+	1.1843 777+	0.9522 1497+
a_1	15.4397 631+	2.7224 525+	0.0101 2842+	12.3386 938+	4.4900 865-	0.0152 8344-
a_2	3928 072+	5573 131-	21 3864-	2227 310-	465 537+	7 5000+
a_3	346 709-	552 254-	2 4818-	350 866+	322 052+	1 3414+
a_4	101 358-	31 661+	2538+	2 732-	20 720-	1504-
a_5	4 710+	8 717+		1 641-	1 509+	
	January 1			January 9		
a_0	84.4890 806+	19.3183 537+	1.0225 4844+	199.7137 327+	3.2288 711-	0.9378 0063+
a_1	16.0831 876+	1.4591 678+	0.0052 0828+	11.9965 792+	4.3078 974-	0.0134 4121-
a_2	2327 202+	6952 392-	27 2743-	1207 473-	1322 485+	10 6312+
a_3	699 470-	341 156-	1 4370-	323 891+	254 092+	7373+
a_4	75 733-	77 754+	3678+	10 675-	13 016-	1192-
a_5	14 839+	3 945+		1 038-	1 204+	
	January 2			January 10		
a_0	100.7289 520+	20.0563 367+	1.0249 2237+	211.6207 824+	7.3802 920-	0.9254 8435+
a_1	16.3159 129+	0.0005 922-	0.0005 3032-	11.8474 632+	3.9717 778-	0.0111 4146-
a_2	76 424-	7469 893-	29 3789-	310 215-	2018 715+	12 1384+
a_3	854 115-	4 742+	761+	270 915+	213 745+	2610+
a_4	3 974+	97 423+	3657+	15 769-	6 935-	854-
a_5	14 654+	4 239-		877-	642+	
	January 3			January 11		
a_0	116.9536 738+	19.3185 478+	1.0214 9834+	223.4626 510+	11.1294 531-	0.9155 7430+
a_1	16.0532 989+	1.4563 035-	0.0062 3681-	11.8599 485+	3.5063 651-	0.0086 6962-
a_2	2468 109-	6913 884-	26 9917-	399 131+	2624 759+	12 4186+
a_3	697 324-	349 439+	1 5681+	199 144+	192 051+	791-
a_4	79 157+	73 684+	2486+	20 219-	3 721-	549-
a_5	4 393+	8 808-		756-	0-	
	January 4			January 12		
a_0	132.6987 844+	17.2122 874+	1.0127 4403+	235.3803 295+	14.3545 094-	0.9081 3314+
a_1	15.3843 292+	2.7091 777-	0.0110 6524-	11.9910 529+	2.9252 872-	0.0062 3160-
a_2	4041 562-	5511 827-	20 8469-	867 664+	3178 577+	11 8598+
a_3	341 871-	556 806+	2 5655+	110 971+	176 827+	2973-
a_4	98 658+	27 703+	811+	24 182-	3 774-	290-
a_5	4 581-	7 406-		317-	589-	
	January 5			January 13		
a_0	147.6541 780+	14.0096 374+	0.9998 5875+	247.4667 961+	16.9446 924-	0.9030 5490+
a_1	14.5106 253+	3.6371 188-	0.0144 3261-	12.1880 468+	2.2383 280-	0.0039 6042-
a_2	4521 395-	3749 279-	12 7080-	1052 284+	3680 509+	10 8006+
a_3	5 514+	595 770+	2 8733+	11 605+	155 636+	4121-
a_4	73 291+	9 500-	623-	25 960-	6 845-	73-
a_5	6 885-	3 463-		610+	955-	
	January 6			January 14		
a_0	161.7198 557+	10.0558 714+	0.9844 3643+	259.7586 967+	18.8001 860-	0.9001 3259+
a_1	13.6338 759+	4.2137 714-	0.0161 3724-	12.3919 072+	1.4587 512-	0.0019 2685-
a_2	4134 071-	2053 502-	4 4872-	937 433+	4096 766+	9 5261+
a_3	230 702+	524 967+	2 6029+	85 451-	118 720+	4401-
a_4	38 100+	26 159-	1436-	22 922-	11 803-	107+
a_5	5 234-	307-		1 816+	929-	
	January 7			January 15		
a_0	174.9666 814+	5.6865 999+	0.9680 9640+	272.2336 915+	19.8386 619-	0.8991 1542+
a_1	12.8888 980+	4.4775 970-	0.0163 1135-	12.5454 986+	0.6089 676-	0.0001 4937-
a_2	3265 676-	638 534-	2 4525+	561 744+	4372 791+	8 2742+
a_3	332 010+	418 156+	2 0125+	158 483-	62 473+	3959-
a_4	12 124+	27 075-	1657-	13 571-	16 600-	245+
a_5	3 046-	1 200+		2 699+	476-	

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	284.8184 290+	20.0058 107-	0.8997 5633+	22.5405 779+	4.1776 334+	0.9539 0304+
a_1	12.6062 236+	0.2774 553+	0.0013 9653+	12.4563 277+	4.4246 630+	0.0122 8888+
a_2	31 919+	4455 848+	7 2365+	2258 738+	432 118-	5 6883+
a_3	185 780-	8 300-	2958-	330 587+	350 535-	6763-
a_4	339+	19 002-	332+	558-	16 018-	1302-
a_5	2 693+	200+		3 344-	626-	
	January 17			January 25		
a_0	297.4095 697+	19.2854 807-	0.9018 5024+	35.2554 479+	8.5223 667+	0.9666 8010+
a_1	12.5583 546+	1.1586 353+	0.0027 6837+	13.0053 542+	4.2263 604+	0.0131 7152+
a_2	496 415-	4318 961+	6 5489+	3213 708+	1586 168-	2 8759+
a_3	157 996-	81 986-	1606-	293 893+	420 006-	1 2062-
a_4	14 077+	17 882-	353+	17 302-	19 672-	1381-
a_5	1 801+	752+		5 161-	838+	
	January 18			January 26		
a_0	309.9040 709+	17.7048 609-	0.9052 6097+	48.6093 158+	12.5462 264+	0.9800 0478+
a_1	12.4182 023+	1.9910 553+	0.0040 4409+	13.7267 619+	3.7756 786+	0.0133 2953+
a_2	867 939-	3973 260+	6 2770+	3939 816+	2955 901-	1 5616-
a_3	84 376-	145 890-	168-	172 784+	488 733-	1 7734-
a_4	23 068+	13 946-	296+	44 136-	15 933-	1083-
a_5	587+	926+		5 800-	3 584+	
	January 19			January 27		
a_0	322.2294 074+	15.3323 706-	0.9099 3403+	62.7423 441+	15.9762 067+	0.9929 8999+
a_1	12.2288 219+	2.7368 245+	0.0053 0629+	14.5460 100+	3.0333 004+	0.0124 4177+
a_2	976 807-	3461 194+	6 3998+	4135 026+	4481 808-	7 5061-
a_3	13 229+	192 541-	1042+	59 685-	514 955-	2 2240-
a_4	25 819+	9 176-	157+	75 377-	2 352+	268-
a_5	352-	701+		2 310-	6 582+	
	January 20			January 28		
a_0	334.3644 182+	12.2695 283-	0.9158 9230+	77.6881 195+	18.5107 243+	1.0044 5608+
a_1	12.0475 804+	3.3679 805+	0.0066 2382+	15.3238 134+	1.9866 845+	0.0102 6259+
a_2	785 750-	2835 533+	6 8000+	3480 417+	5946 488-	14 2993-
a_3	112 709+	222 514-	1695+	379 516-	439 565-	2 3418-
a_4	23 884+	5 606-	60-	88 271-	36 999+	1010+
a_5	819-	219+		6 161+	6 977+	
	January 21			January 29		
a_0	346.3470 010+	8.6407 846-	0.9232 1248+	93.3138 120+	19.8632 011+	1.0130 6467+
a_1	11.9333 870+	3.8661 993+	0.0080 3230+	15.8738 220+	0.6838 003+	0.0067 4063+
a_2	312 515-	2136 544+	7 2636+	1874 224+	6973 155-	20 6770-
a_3	199 943+	243 072-	1474+	667 020-	224 311-	1 9310-
a_4	19 740+	4 513-	346-	54 919-	73 742+	2369+
a_5	997-	342-		13 380+	2 563+	
	January 22			January 30		
a_0	358.2710 051+	4.5857 236-	0.9319 8241+	109.3042 007+	19.8348 853+	1.0175 6821+
a_1	11.9382 640+	4.2186 098+	0.0095 1541+	16.0332 814+	0.7473 530-	0.0021 2084+
a_2	395 798+	1376 823+	7 4879+	321 931-	7178 041-	25 0232-
a_3	268 775+	264 816-	101+	754 005-	92 553+	9569-
a_4	14 862+	6 288-	680-	16 231+	86 324+	3200+
a_5	1 247-	821-		11 342+	4 096-	
	January 23			January 31		
a_0	10.2770 879+	0.2566 240-	0.9422 4081+	125.2326 457+	18.3872 063+	1.0171 2303+
a_1	12.1033 765+	4.4116 038+	0.0109 8880+	15.7548 473+	2.1227 176-	0.0030 4271-
a_2	1278 862+	536 412+	7 0994+	2373 013-	6423 683-	25 9785-
a_3	315 339+	298 291-	2626-	580 564-	394 835+	3566+
a_4	8 879+	10 560-	1024-	73 812+	63 845+	3055+
a_5	1 946-	1 025-		2 493+	7 687-	

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						
a_0	140.6997 657+	15.6672 197+	1.0115 4868+	244.0599 704+	16.2421 303-	0.9092 5148+
a_1	15.1368 388+	3.2673 081-	0.0080 0910-	12.2039 657+	2.4645 162-	0.0067 4643-
a_2	3647 212-	4933 200-	23 1073-	690 518+	3660 174+	14 0022+
a_3	264 276-	573 900+	1 6006+	71 404+	138 864+	574-
a_4	84 159+	23 871+	2013+	22 238-	5 908-	632-
a_5	4 292-	6 610-		117+	422-	
February 2						
a_0	155.4534 424+	11.9657 077+	1.0014 0902+	256.3379 161+	18.3273 758-	0.9038 9321+
a_1	14.3596 292+	4.0755 310-	0.0120 6987-	12.3546 546+	1.6933 969-	0.0039 8848-
a_2	3978 274-	3134 405-	17 1409-	772 456+	4037 079+	13 4569+
a_3	28 484+	605 109+	2 4070+	15 870-	110 842+	3092-
a_4	60 856+	9 413-	608+	21 741-	8 135-	437-
a_5	5 801-	3 375-		1 006+	717-	
February 3						
a_0	169.4235 981+	7.6359 683+	0.9878 7184+	268.7661 559+	19.6068 658-	0.9012 1513+
a_1	13.5939 630+	4.5263 287-	0.0147 5168-	12.4961 928+	0.8563 408-	0.0014 0733-
a_2	3585 777-	1409 237-	9 5915-	604 477+	4313 609+	12 2727+
a_3	214 646+	535 334+	2 6366+	92 264-	71 154+	4834-
a_4	31 305+	25 820-	579-	16 616-	11 858-	264-
a_5	4 404-	557-		1 900+	686-	
February 4						
a_0	182.6831 382+	3.0196 117+	0.9724 1889+	281.3120 984+	20.0259 847-	0.9009 8409+
a_1	12.9515 234+	4.6581 805-	0.0159 0224-	12.5837 130+	0.0226 411+	0.0008 9161+
a_2	2798 026-	36 351+	2 0503-	247 026+	4449 043+	10 6690+
a_3	296 824+	427 378+	2 3878+	139 492-	17 048+	5890-
a_4	9 446+	28 079-	1261-	6 841-	15 389-	101-
a_5	2 657-	966+		2 323+	351-	
February 5						
a_0	195.3852 203+	1.5949 073-	0.9565 3779+	293.9061 130+	19.5583 085-	0.9028 8269+
a_1	12.4834 167+	4.5334 452-	0.0156 4645-	12.5896 951+	0.9112 337+	0.0028 4466+
a_2	1877 406-	1159 719+	4 3501+	189 226-	4404 343+	8 8464+
a_3	308 700+	324 983+	1 8705+	143 807-	47 751-	6292-
a_4	3 551-	22 900-	1462-	5 068+	17 151-	60+
a_5	1 525-	1 398+		2 008+	118+	
February 6						
a_0	207.7112 589+	5.9820 325-	0.9414 9877+	306.4632 125+	18.2131 188-	0.9065 4968+
a_1	12.1983 635+	4.2124 678-	0.0142 7383-	12.5117 384+	1.7709 760+	0.0044 2759+
a_2	987 831-	2011 272+	9 0871+	570 133-	4159 372+	6 9995+
a_3	279 566+	247 246+	1 2787+	103 940-	114 963-	6045-
a_4	10 985-	15 733-	1357-	15 243+	16 486-	209+
a_5	995-	1 188+		1 146+	494+	
February 7						
a_0	219.8375 978+	9.9701 030-	0.9282 4795+	318.9091 825+	16.0393 011-	0.9116 1886+
a_1	12.0797 757+	3.7417 395-	0.0121 2710-	12.3731 990+	2.5620 143+	0.0056 5450+
a_2	224 989-	2670 500+	12 1162+	779 042-	3720 525+	5 3148+
a_3	225 823+	195 902+	7338+	32 049-	175 883-	5193-
a_4	15 915-	9 724-	1120-	20 915+	13 908-	322+
a_5	755-	682+		201+	635+	
February 8						
a_0	231.9157 899+	13.4261 065-	0.9173 9465+	331.2033 839+	13.1241 500-	0.9177 5613+
a_1	12.0957 817+	3.1524 182-	0.0095 2853-	12.2162 413+	3.2481 081+	0.0065 7457+
a_2	349 431+	3206 681+	13 6535+	747 712-	3115 783+	3 9516+
a_3	154 791+	163 485+	2862+	53 225+	225 229-	3878-
a_4	19 769-	6 314-	862-	21 780+	10 648-	369+
a_5	465-	93+		477-	531+	

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			February 25			
a_0	343.3523 067+	9.5879 982-	0.9246 9076+	88.0256 993+	19.5881 646+	0.9934 0378+
a_1	12.0911 391+	3.7997 018+	0.0072 6332+	15.1624 248+	1.0981 113+	0.0073 7238+
a_2	462 147-	2381 519+	3 0081+	2254 785+	6251 495-	8 6349-
a_3	135 348+	262 670-	2369-	423 594-	265 447-	1 4899-
a_4	19 297+	7 951-	321+	55 421-	45 365+	28+
a_5	849-	262+		7 494+	3 636+	
February 18			February 26			
a_0	355.4126 107+	5.5771 804-	0.9322 3442+	103.3664 504+	20.0394 818+	0.9997 6397+
a_1	12.0466 083+	4.1941 551+	0.0078 0675+	15.4678 841+	0.2118 620-	0.0051 9955+
a_2	51 193+	1548 427+	2 4855+	726 771+	6739 189-	13 0604-
a_3	203 887+	292 031-	1050-	569 259-	49 694-	1 4828-
a_4	15 064+	6 645-	168+	15 489-	64 203+	908+
a_5	1 112-	55-		9 452+	23-	
February 19			February 27			
a_0	7.4861 222+	1.2580 557-	0.9402 8089+	118.8494 819+	19.1551 495+	1.0035 1829+
a_1	12.1234 822+	4.4135 455+	0.0082 7905+	15.4409 863+	1.5489 422-	0.0021 7900+
a_2	742 139+	631 902+	2 2632+	979 149-	6503 357-	16 9380-
a_3	252 770+	319 289-	354-	538 869-	204 751+	1 1126-
a_4	9 628+	6 994-	80-	33 675+	63 536+	1754+
a_5	1 542-	280-		5 530+	3 806-	
February 20			February 28			
a_0	19.7099 040+	3.1860 237+	0.9487 8192+	134.1425 869+	16.9823 197+	1.0039 0978+
a_1	12.3508 203+	4.4412 017+	0.0087 1788+	15.0997 242+	2.7646 787-	0.0014 7211-
a_2	1542 822+	370 756-	2 0995+	2338 460-	5546 111-	19 2093-
a_3	275 392+	350 021-	665-	352 153-	419 929+	3934-
a_4	2 089+	8 566-	385-	60 966+	43 391+	2210+
a_5	2 349-	212-		297-	5 355-	
February 21			March 1			
a_0	32.2425 198+	7.5542 699+	0.9576 9925+	148.9793 166+	13.7088 264+	1.0004 9951+
a_1	12.7416 623+	4.2585 124+	0.0091 0244+	14.5506 201+	3.7332 425-	0.0053 4347-
a_2	2358 048+	1474 381-	1 6601+	3032 296-	4079 639-	19 0680-
a_3	259 627+	386 036-	2217-	113 217-	540 386+	5110+
a_4	9 618-	9 912-	684-	58 092+	15 875+	2057+
a_5	3 459-	417+		3 656-	4 524-	
February 22			March 2			
a_0	45.2446 417+	11.6257 911+	0.9669 3869+	163.2208 290+	9.6227 936+	0.9933 2090+
a_1	13.2855 823+	3.8440 707+	0.0093 4057+	13.9316 037+	4.3829 645-	0.0089 2144-
a_2	3044 563+	2687 837-	5784+	3060 095-	2408 494-	16 3221-
a_3	186 210+	420 708-	4998-	82 319+	559 725+	1 3468+
a_4	27 358-	8 138-	892-	38 887+	6 894-	1367+
a_5	4 135-	1 809+		4 034-	2 622-	
February 23			March 3			
a_0	58.8501 520+	15.1583 744+	0.9762 7820+	176.8581 403+	5.0540 007+	0.9829 1559+
a_1	13.9373 488+	3.1779 425+	0.0092 7060+	13.3578 189+	4.7008 124-	0.0117 2713-
a_2	3397 522+	3980 699-	1 4561-	2620 195-	796 876-	11 4895-
a_3	36 239+	434 101-	8646-	198 072+	506 962+	1 8950+
a_4	49 214-	880+	901-	18 487+	19 808-	453+
a_5	2 807-	3 688+		3 037-	828-	
February 24			March 4			
a_0	73.1256 747+	17.8952 938+	0.9853 0772+	189.9752 919+	0.3221 333+	0.9702 3353+
a_1	14.6066 406+	2.2537 700+	0.0086 8389+	12.8990 789+	4.7164 348-	0.0134 3847-
a_2	3182 700+	5240 742-	4 5815-	1945 414-	596 925+	5 5577-
a_3	186 095-	393 069-	1 2361-	242 272+	420 131+	2 0685+
a_4	64 487-	19 976+	608-	3 408+	23 659-	351-
a_5	1 723+	4 843+		1 952-	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
March 5			March 13			
a_0	202.7042 021+	4.2949 281-	0.9564 4262+	302.5351 793+	18.7931 219-	0.9064 9517+
a_1	12.5830 654+	4.4803 045-	0.0139 4356-	12.5182 289+	1.5184 290+	0.0040 9426+
a_2	1217 656-	1718 781+	4214+	432 881-	4264 063+	11 2541+
a_3	236 811+	329 169+	1 9177+	71 912-	85 455-	6980-
a_4	6 207-	21 723-	859-	10 714+	13 643-	380-
a_5	1 213-	833+		1 015+	5-	
March 6			March 14			
a_0	215.1884 412+	8.5725 264-	0.9427 2438+	315.0041 018+	16.8581 967-	0.9116 4124+
a_1	12.4074 893+	4.0460 701-	0.0133 1837-	12.4148 713+	2.3401 459+	0.0061 2048+
a_2	556 577-	2584 303+	5 6526+	574 186-	3925 799+	8 9371+
a_3	200 133+	250 609+	1 5655+	19 300-	140 030-	8515-
a_4	12 197-	17 400-	1064-	15 784+	13 644-	224-
a_5	753-	828+		335+	69+	
March 7			March 15			
a_0	227.5589 911+	12.3367 626-	0.9301 1718+	327.3612 364+	14.1408 314-	0.9185 6804+
a_1	12.3509 592+	3.4605 732-	0.0117 6079-	12.3007 247+	3.0778 740+	0.0076 4347+
a_2	36 890-	3240 019+	9 7109+	534 041-	3424 542+	6 2544+
a_3	144 050+	189 127+	1 1350+	46 849+	193 894-	9428-
a_4	15 979-	13 189-	1056-	17 391+	13 287-	18-
a_5	360-	543+		246-	99+	
March 8			March 16			
a_0	239.9190 325+	15.4556 857-	0.9194 3041+	339.6149 564+	10.7412 113-	0.9267 4249+
a_1	12.3802 255+	2.7608 354-	0.0095 2037-	12.2148 040+	3.6993 492+	0.0086 1079+
a_2	295 783+	3733 703+	12 4854+	291 617-	2764 132+	3 4226+
a_3	76 834+	141 595+	7106+	113 706+	246 033-	9504-
a_4	17 842-	10 473-	945-	16 106+	12 797-	220+
a_5	145+	175+		663-	123+	
March 9			March 17			
a_0	252.3347 500+	17.8300 211-	0.9112 2019+	351.8135 135+	6.7913 196-	0.9356 0270+
a_1	12.4553 689+	1.9757 185-	0.0068 4791-	12.1967 026+	4.1733 088+	0.0090 1899+
a_2	420 678+	4097 391+	14 0543+	139 504+	1950 483+	7101+
a_3	7 284+	101 279+	3326+	171 286+	295 953-	8609-
a_4	17 155-	9 650-	809-	12 796+	12 200-	440+
a_5	787+	126-		1 016-	180+	
March 10			March 18			
a_0	264.8312 783+	19.3868 502-	0.9058 0287+	4.0424 731+	2.4537 598-	0.9446 1101+
a_1	12.5352 218+	1.1297 797-	0.0039 6965-	12.2805 991+	4.4698 294+	0.0089 2037+
a_2	347 479+	4342 058+	14 5703+	719 991+	991 213+	1 6042-
a_3	53 116-	61 337+	96+	212 044+	342 882-	6810-
a_4	13 156-	10 352-	688-	7 791+	11 342-	576+
a_5	1 401+	269-		1 471-	307+	
March 11			March 19			
a_0	277.3947 609+	20.0773 525-	0.9032 8434+	16.4169 076+	2.0797 991+	0.9533 0862+
a_1	12.5842 213+	0.2472 424-	0.0010 8022-	12.4905 905+	4.5608 242+	0.0084 1829+
a_2	123 231+	4461 257+	14 1897+	1388 168+	102 430-	3 3020-
a_3	91 549-	17 248+	2649-	228 109+	385 022-	4457-
a_4	5 979-	11 756-	587-	520+	9 889-	569+
a_5	1 716+	248-		2 138-	578+	
March 12			March 20			
a_0	289.9817 241+	19.8779 448-	0.9035 9073+	29.0689 640+	6.5909 471+	0.9613 5783+
a_1	12.5798 690+	0.6453 572+	0.0016 5478+	12.8357 951+	4.4211 658+	0.0076 4698+
a_2	170 102-	4439 985+	13 0458+	2054 230+	1311 066-	4 3024-
a_3	98 393-	32 185-	4999-	208 395+	418 483-	2132-
a_4	2 795+	13 014-	493-	10 220-	7 129-	407+
a_5	1 561+	129-		2 878-	1 111+	

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	42.1297 118+	10.8385 561+	0.9685 5732+	158.0989 120+	11.2404 197+	0.9847 8080+
a_1	13.3036 326+	4.0311 124+	0.0067 3884+	13.8031 675+	4.1195 376-	0.0048 7768-
a_2	2589 259+	2598 199-	4 7063-	2548 696-	3023 152-	11 5745-
a_3	138 650+	435 398-	479-	64 561+	489 307+	106+
a_4	25 024-	1 693-	129+	33 792+	4 958+	1182+
a_5	3 079-	1 967+		3 227-	2 260-	
March 22						
a_0	55.7033 251+	14.5663 362+	0.9748 2204+	171.6567 225+	6.8677 674+	0.9787 5854+
a_1	13.8515 324+	3.3811 605+	0.0057 8839+	13.3247 006+	4.5765 220-	0.0071 4208-
a_2	2824 158+	3894 869-	4 7818-	2184 565-	1548 080-	10 8351-
a_3	8 594+	421 967-	32+	167 735+	487 036+	4932+
a_4	41 268-	8 220+	178-	17 404+	6 300-	1132+
a_5	1 695-	2 910+		2 717-	1 399-	
March 23						
a_0	69.8338 366+	17.5169 261+	0.9801 3078+	184.7812 089+	2.1843 711+	0.9705 9359+
a_1	14.4015 920+	2.4803 399+	0.0048 2583+	12.9437 122+	4.7432 460-	0.0091 1583-
a_2	2585 285+	5082 288-	4 8865-	1604 104-	138 755-	8 6863-
a_3	171 428-	359 827-	721-	210 618+	448 252+	9528+
a_4	50 468-	23 211+	412-	3 830+	13 218-	813+
a_5	1 789+	3 225+		1 952-	696-	
March 24						
a_0	84.4719 465+	19.4556 982+	0.9844 5663+	197.5857 604+	2.5293 167-	0.9607 1253+
a_1	14.8479 326+	1.3668 301+	0.0038 1037+	12.6866 339+	4.6421 560-	0.0105 3475-
a_2	1786 152+	5990 156-	5 3523-	968 774-	1119 746+	5 3545-
a_3	353 174-	235 356-	2435-	206 797+	388 710+	1 2798+
a_4	41 080-	39 973+	482-	5 858-	16 610-	352+
a_5	5 771+	2 146+		1 313-	199-	
March 25						
a_0	99.4596 460+	20.2041 890+	0.9877 0261+	210.1954 794+	7.0223 080-	0.9497 7383+
a_1	15.0856 658+	0.1152 515+	0.0026 4756+	12.5519 188+	4.3083 369-	0.0112 0762-
a_2	538 104+	6434 888-	6 3672-	396 661-	2184 239+	1 3175-
a_3	459 086-	55 311-	4434-	170 538+	320 448+	1 4184+
a_4	10 568-	50 983+	334-	12 401-	17 521-	98-
a_5	7 021+	153-		797-	86+	
March 26						
a_0	114.5528 589+	19.6755 036+	0.9896 6576+	222.7234 661+	11.0819 197-	0.9385 7532+
a_1	15.0548 412+	1.1680 052-	0.0012 2769+	12.5183 898+	3.7823 200-	0.0110 4954-
a_2	832 165-	6296 505-	7 8870-	32 574+	3041 326+	2 8685+
a_3	432 647-	145 831+	5828-	113 284+	251 290+	1 3747+
a_4	25 837+	49 873+	21+	16 421-	17 030-	435-
a_5	4 333+	2 362-		259-	193+	
March 27						
a_0	129.4842 359+	17.8971 822+	0.9900 4669+	235.2547 737+	14.5366 617-	0.9279 4575+
a_1	14.7711 109+	2.3647 897-	0.0005 2372-	12.5521 930+	3.1053 830-	0.0100 8085-
a_2	1931 768-	5583 476-	9 6082-	271 308+	3694 953+	6 7254+
a_3	288 318-	321 138+	5761-	45 393+	185 110+	1 1962+
a_4	47 385+	37 479+	497+	17 760-	16 043-	630-
a_5	168+	3 333-		393+	201+	
March 28						
a_0	144.0380 934+	15.0095 732+	0.9885 0952+	247.8369 002+	17.2556 226-	0.9186 5076+
a_1	14.3172 966+	3.3718 181-	0.0025 9828-	12.6131 659+	2.3171 760-	0.0084 0212-
a_2	2510 862-	4428 572-	11 0247-	304 862+	4156 036+	9 9335+
a_3	98 682-	437 855+	3735-	21 316-	122 950+	9412+
a_4	47 330+	20 440+	939+	15 773-	15 048-	709-
a_5	2 567-	3 077-		1 087+	200+	

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	260-4769 522+	19-1463 848-	0-9113 2902+	359-7207 163+	4-0663 167-	0-9450 8339+
a_1	12-6619 788+	1-4550 031-	0-0061 6144-	12-2871 241+	4-4534 894+	0-0114 5216+
a_2	157 172+	4436 593+	12 3311+	895 963+	1522 863+	8083+
a_3	73 243-	64 775+	6562+	226 881+	318 768-	1 4602-
a_4	10 204-	14 064-	722-	6 667+	17 209-	86+
a_5	1 594+	236+		1 524-	124-	
April 7						
a_0	273-1464 630+	20-1526 339-	0-9064 5908+	12-1206 390+	0-5058 489+	0-9564 7122+
a_1	12-6681 561+	0-5537 596-	0-0035 2724-	12-5362 847+	4-6554 870+	0-0111 7920+
a_2	107 810-	4548 894+	13 8668+	1601 383+	462 044+	3 5053-
a_3	98 068-	10 902+	3674+	237 837+	388 409-	1 4265-
a_4	2 037-	12 874-	714-	843-	17 990-	582+
a_5	1 681+	281+		2 340-	617+	
April 8						
a_0	285-7939 957+	20-2516 732-	0-9043 4812+	24-8405 274+	5-1669 620+	0-9671 6306+
a_1	12-6171 990+	0-3542 808+	0-0006 7224-	12-9264 044+	4-6244 866+	0-0100 7348+
a_2	397 402-	4507 173+	14 5404+	2286 429+	804 978-	7 4223-
a_3	89 614-	37 796-	822+	210 566+	453 554-	1 1893-
a_4	6 527+	11 428-	715-	12 620-	15 044-	1021+
a_5	1 313+	262+		3 236-	1 736+	
April 9						
a_0	298-3632 770+	19-4515 714-	0-9051 3099+	38-0150 458+	9-6642 646+	0-9763 8559+
a_1	12-5141 008+	1-2399 360+	0-0022 3192+	13-4401 942+	4-3222 766+	0-0082 7313+
a_2	613 948-	4327 842+	14 3577+	2809 970+	2238 547-	10 3705-
a_3	50 737-	80 969-	2034-	127 668+	495 618-	7717-
a_4	13 137+	10 069-	730-	29 348-	6 368-	1245+
a_5	687+	126+		3 402-	3 051+	
April 10						
a_0	310-8122 918+	17-7879 424-	0-9087 7104+	51-7457 288+	13-7127 930+	0-9835 5696+
a_1	12-3816 878+	2-0772 485+	0-0050 1325+	14-0270 509+	3-7248 613+	0-0060 1739+
a_2	680 474-	4025 779+	13 3093+	2982 717+	3733 049-	11 9410-
a_3	8 327+	120 126-	4959-	22 637-	490 041-	2634-
a_4	16 522+	9 413-	743-	47 415-	9 208+	1159+
a_5	74+	111-		1 541-	4 010+	
April 11						
a_0	323-1284 245+	15-3210 810-	0-9150 5820+	66-0638 923+	17-0166 671+	0-9883 6549+
a_1	12-2547 364+	2-8425 455+	0-0074 9660+	14-5970 720+	2-8369 268+	0-0035 9656+
a_2	555 631-	3607 810+	11 3769+	2614 803+	5107 726-	12 0470-
a_3	74 894+	159 036-	7951-	225 249-	413 316-	2072+
a_4	16 818+	9 983-	714-	55 874-	29 960+	797+
a_5	373-	368-		2 768+	3 690+	
April 12						
a_0	335-3367 318+	12-1346 932-	0-9236 0584+	80-8946 091+	19-3048 548+	0-9907 8604+
a_1	12-1726 189+	3-5122 195+	0-0095 0487+	15-0314 969+	1-7052 136+	0-0012 8121+
a_2	233 773-	3067 117+	8 5672+	1631 608+	6130 912-	10 9624-
a_3	138 255+	202 738-	1 0845-	418 625-	257 789-	5273+
a_4	14 923+	11 885-	590-	41 218-	49 085+	304+
a_5	680-	531-		7 146+	1 563+	
April 13						
a_0	347-5012 231+	8-3372 773-	0-9338 5309+	96-0439 971+	20-3762 631+	0-9910 2677+
a_1	12-1729 691+	4-0598 023+	0-0108 6933+	15-2193 173+	0-4221 067+	0-0007 4093-
a_2	263 729+	2382 270+	4 9679+	200 183+	6594 140-	9 2117-
a_3	190 949+	255 556-	1 3256-	511 724-	47 515-	6451+
a_4	11 566+	14 647-	326-	3 420-	56 874+	142-
a_5	1 002-	483-		7 713+	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
April 22						
a_0	111.2325 896+	20.1397 477+	0.9894 2776+	218.3400 037+	9.7851 246-	0.9387 3095+
a_1	15.1083 210+	0.8889 483-	0.0023 9546-	12.4358 749+	4.0117 167-	0.0088 3374-
a_2	1278 204-	6409 945-	7 3702-	326 788+	2616 700+	209+
a_3	450 402-	164 446+	5813+	125 079+	294 634+	7319+
a_4	36 367+	48 945+	414-	19 846-	12 758-	307+
a_5	3 893+	3 428-		496-	502-	
April 23						
a_0	126.1720 760+	18.6308 013+	0.9863 4928+	230.8190 312+	13.5070 339-	0.9299 7557+
a_1	14.7340 477+	2.1037 395-	0.0037 1171-	12.5305 708+	3.4053 406-	0.0085 9768-
a_2	2372 348-	5657 317-	5 8764-	577 970+	3419 023+	2 3945+
a_3	268 644-	325 874+	4086+	41 210+	238 615+	8554+
a_4	55 347+	31 095+	465-	22 453-	15 334-	98+
a_5	768-	3 517-		324+	448-	
April 24						
a_0	140.6474 823+	15.9966 753+	0.9820 8613+	243.4093 071+	16.5481 889-	0.9217 0385+
a_1	14.2007 365+	3.1267 599-	0.0047 8307-	12.6497 097+	2.6563 087-	0.0078 5823-
a_2	2854 041-	4528 328-	4 9256-	570 118+	4038 375+	5 0134+
a_3	56 398-	415 690+	2172+	44 779-	172 939+	8940+
a_4	50 415+	13 280+	323-	20 850-	17 649-	106-
a_5	3 258-	2 428-		1 343+	212-	
April 25						
a_0	154.5618 907+	12.4597 368+	0.9768 2899+	256.1095 999+	18.7851 523-	0.9144 3530+
a_1	13.6315 456+	3.9036 193-	0.0057 1595-	12.7426 317+	1.8039 174-	0.0065 9160-
a_2	2753 423-	3225 841-	4 4597-	324 134+	4449 170+	7 6264+
a_3	112 509+	445 196+	858+	114 290-	100 446+	8502+
a_4	33 451+	1 270+	62-	13 949-	18 750-	276-
a_5	3 493-	1 263-		2 157+	178+	
April 26						
a_0	167.9323 407+	8.2780 538+	0.9706 7503+	268.8720 368+	20.1359 653-	0.9086 8860+
a_1	13.1262 486+	4.4153 511-	0.0065 8465-	12.7686 705+	0.8913 600-	0.0048 2230-
a_2	2250 141-	1895 228-	4 2311-	80 816-	4639 794+	10 0075+
a_3	211 797+	438 062+	617+	148 426-	27 453+	7388+
a_4	15 832+	4 831-	220+	2 844-	17 823-	405-
a_5	2 745-	557-		2 319+	576+	
April 27						
a_0	180.8560 637+	3.7164 473+	0.9636 7564+	281.6177 305+	20.5623 251-	0.9049 3689+
a_1	12.7447 208+	4.6651 887-	0.0074 0354-	12.7080 005+	0.0379 942+	0.0026 1535-
a_2	1547 195-	615 575-	3 9074-	519 935-	4620 997+	11 9777+
a_3	248 127+	413 319+	1531+	136 943-	37 954-	5764+
a_4	2 192+	7 466-	433+	9 004+	14 831-	509-
a_5	1 961-	309-		1 740+	788+	
April 28						
a_0	193.4709 010+	0.9697 445-	0.9559 0101+	294.2611 175+	20.0674 309-	0.9035 7186+
a_1	12.5096 175+	4.6674 489-	0.0081 2174-	12.5674 005+	0.9452 691+	0.0000 6724-
a_2	809 249-	576 505+	3 1855-	859 341-	4426 049+	13 3984+
a_3	237 608+	380 358+	3310+	84 080-	89 450-	3731+
a_4	7 514-	8 945-	519+	17 750+	10 764-	609-
a_5	1 426-	326-		780+	696+	
April 29						
a_0	205.9224 604+	5.5424 341-	0.9474 9901+	306.7360 289+	18.6895 087-	0.9048 7569+
a_1	12.4153 321+	4.4417 815-	0.0086 3875-	12.3777 974+	1.7996 859+	0.0027 0004+
a_2	155 765-	1660 651+	1 8826-	997 297-	4100 091+	14 1489+
a_3	193 538+	341 259+	5429+	5 771-	125 751-	1302+
a_4	14 638-	10 568-	466+	21 533+	7 193-	725-
a_5	1 022-	431-		74-	333+	

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	319.0156 653+	16.4930 748-	0.9089 9639+	60.8456 586+	16.0174 961+	0.9978 7228+
a_1	12.1851 820+	2.5792 674+	0.0055 3989+	14.7336 221+	3.3191 018+	0.0071 4209+
a_2	886 177-	3683 012+	14 1005+	3470 365+	4773 160-	17 8787-
a_3	79 323+	151 488-	1592-	196 897-	534 719-	9416-
a_4	21 011+	5 500-	860-	74 105-	21 524+	2167+
a_5	576-	175-		1 362+	6 283+	
	May 9			May 17		
a_0	331.1222 054+	13.5612 226-	0.9159 2180+	75.8993 532+	18.8085 906+	1.0031 5400+
a_1	12.0398 599+	3.2681 352+	0.0082 7781+	15.3396 730+	2.2158 019+	0.0033 7065+
a_2	527 909-	3193 791+	13 1028+	2448 706+	6185 133-	19 4076-
a_3	157 481+	175 533-	5039-	475 577-	387 200-	550-
a_4	18 057+	6 405-	993-	66 995-	54 434+	2022+
a_5	787-	682-		8 758+	3 851+	
	May 10			May 18		
a_0	343.1267 494+	9.9919 704-	0.9254 4956+	91.4305 155+	20.3729 877+	1.0045 9861+
a_1	11.9883 511+	3.8513 298+	0.0107 0746+	15.6643 254+	0.8863 087+	0.0004 4642-
a_2	45 008+	2621 926+	10 9932+	708 046+	6981 561-	18 3796-
a_3	221 732+	208 184-	9042-	654 395-	133 788-	7665+
a_4	14 164+	9 904-	1065-	20 041-	74 106+	1359+
a_5	954-	1 047-		11 636+	1 182-	
	May 11			May 19		
a_0	355.1430 954+	5.9003 616-	0.9371 5527+	107.0993 656+	20.5550 537+	1.0024 0446+
a_1	12.0690 601+	4.3087 745+	0.0125 9218+	15.6074 125+	0.5210 933-	0.0038 3804-
a_2	785 668+	1927 453+	7 6440+	1258 657-	6950 288-	15 2919-
a_3	268 595+	258 297-	1 3371-	620 887-	148 563+	1 3111+
a_4	9 555+	15 310-	984-	40 688+	66 994+	481+
a_5	1 374-	1 100-		6 758+	5 151-	
	May 12			May 20		
a_0	7.3184 001+	1.4263 126-	0.9503 6831+	122.5235 681+	19.3599 722+	0.9971 7315+
a_1	12.3099 066+	4.6101 021+	0.0136 8046+	15.1890 607+	1.8423 605-	0.0064 8390-
a_2	1635 085+	1049 653+	3 0533+	2809 690-	6154 351-	11 0937-
a_3	292 542+	330 245-	1 7403-	394 689-	364 739+	1 4956+
a_4	2 923+	21 094-	643-	73 943+	39 807+	282-
a_5	2 296-	601-		598-	5 591-	
	May 13			May 21		
a_0	19.8211 321+	3.2535 608+	0.9641 7365+	137.3995 254+	16.9420 720+	0.9897 2661+
a_1	12.7247 058+	4.7122 226+	0.0137 4328+	14.5379 895+	2.9506 798-	0.0082 6530-
a_2	2507 308+	73 712-	2 5329-	3556 346-	4877 281-	6 7904-
a_3	280 464+	419 858-	2 0070-	107 229-	469 169+	1 3719+
a_4	8 427-	24 476-	10+	69 119+	11 340+	742-
a_5	3 715-	720+		4 589-	3 574-	
	May 14			May 22		
a_0	32.8234 008+	7.9140 506+	0.9774 6305+	151.5776 104+	13.5513 576+	0.9809 1204+
a_1	13.3050 770+	4.5620 948+	0.0126 3498+	13.8199 043+	3.7826 338-	0.0092 4154-
a_2	3260 929+	1472 986-	8 5210-	3509 369-	3437 440-	3 1241-
a_3	208 981+	509 289-	2 0069-	123 176+	480 078+	1 0658+
a_4	27 412-	21 179-	885+	45 069+	6 293-	877-
a_5	4 876-	2 926+		4 793-	1 320-	
	May 15			May 23		
a_0	46.4722 399+	12.2760 926+	0.9890 5409+	165.0629 231+	9.4722 264+	0.9714 5591+
a_1	14.0065 553+	4.1077 049+	0.0103 6413+	13.1706 159+	4.3292 737-	0.0095 8171-
a_2	3674 430+	3098 641-	13 9853-	2917 385-	2048 098-	4494-
a_3	51 237+	563 369-	1 6460-	256 256+	442 516+	7091+
a_4	53 200-	6 367-	1718+	20 912+	12 475-	768-
a_5	3 832-	5 364+		3 468-	55+	

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	177.9691 705 +	4.9811 526 +	0.9618 9250 +	277.7434 465 +	20.6856 935 -	0.9045 3049 +
a_1	12.6706 481 +	4.6111 002 -	0.0094 8959 -	12.7691 673 +	0.2798 342 -	0.0032 4478 -
a_2	2057 793 -	794 801 -	1 2246 +	326 170 -	4698 364 +	8 1842 +
a_3	305 939 +	393 450 +	3992 +	195 345 -	13 144 -	5645 +
a_4	3 770 +	11 888 -	524 -	4 176 +	19 793 -	30 -
a_5	2 231 -	519 +		2 660 +	830 +	
May 25						
a_0	190.4647 870 +	0.3287 804 +	0.9525 6005 +	290.4611 458 +	20.4989 020 -	0.9021 6028 +
a_1	12.3512 644 +	4.6565 212 -	0.0091 4585 -	12.6483 283 +	0.6483 936 +	0.0014 3979 -
a_2	1139 636 -	319 435 +	2 1170 +	860 526 -	4548 504 +	9 8548 +
a_3	299 118 +	351 025 +	1898 +	152 698 -	83 848 -	5526 +
a_4	7 171 -	9 123 -	239 -	17 682 +	15 454 -	181 -
a_5	1 538 -	398 +		1 509 +	1 117 +	
May 26						
a_0	202.7311 289 +	4.2615 673 -	0.9436 4249 +	303.0100 707 +	19.4054 765 -	0.9017 5942 +
a_1	12.2094 361 +	4.4907 774 -	0.0086 7506 -	12.4382 392 +	1.5273 165 +	0.0006 8974 +
a_2	300 669 -	1321 761 +	2 5510 +	1197 457 -	4215 428 +	11 3993 +
a_3	255 251 +	318 283 +	961 +	67 610 -	134 596 -	4808 +
a_4	14 773 -	7 065 -	17 +	25 128 +	9 697 -	341 -
a_5	1 225 -	7 -		237 +	941 +	
May 27						
a_0	214.9344 234 +	8.5890 476 -	0.9352 3231 +	315.3243 398 +	17.4709 524 -	0.9036 3377 +
a_1	12.2193 563 +	4.1337 704 -	0.0081 3534 -	12.1886 339 +	2.3266 146 +	0.0031 0021 +
a_2	364 182 +	2234 147 +	2 8553 +	1247 178 -	3762 885 +	12 6313 +
a_3	184 093 +	289 681 +	1058 +	34 795 +	164 263 -	3451 +
a_4	20 980 -	7 113 -	201 +	26 081 +	4 896 -	522 -
a_5	920 -	479 -		590 -	432 +	
May 28						
a_0	227.2064 171 +	12.4711 942 -	0.9273 9510 +	327.3942 845 +	14.7849 219 -	0.9080 2640 +
a_1	12.3385 691 +	3.6031 214 -	0.0075 2447 -	11.9597 739 +	3.0281 696 +	0.0057 0915 +
a_2	781 349 +	3055 713 +	3 2963 +	992 233 -	3245 043 +	13 3471 +
a_3	91 365 +	256 245 +	1893 +	133 040 +	179 897 -	1375 +
a_4	25 783 -	9 598 -	293 +	22 953 +	2 718 -	732 -
a_5	252 -	825 -		886 -	210 -	
May 29						
a_0	239.6296 542 +	15.7441 620 -	0.9202 2213 +	339.2703 458 +	11.4505 305 -	0.9150 7669 +
a_1	12.5118 109 +	2.9193 566 -	0.0067 9666 -	11.8099 774 +	3.6220 160 +	0.0083 9054 +
a_2	898 205 +	3758 593 +	4 0403 +	464 262 -	2686 937 +	13 3129 +
a_3	13 616 -	209 591 +	3092 +	215 966 +	193 229 -	1547 -
a_4	27 213 -	13 879 -	295 +	18 485 +	3 801 -	973 -
a_5	909 +	859 -		911 -	829 -	
May 30						
a_0	252.2272 937 +	18.2681 740 -	0.9138 6337 +	351.0572 509 +	7.5796 067 -	0.9247 7333 +
a_1	12.6769 379 +	2.1107 413 -	0.0058 8402 -	11.7888 529 +	4.0994 992 +	0.0109 6781 +
a_2	703 179 +	4295 479 +	5 1429 +	285 450 +	2076 140 +	12 2580 +
a_3	112 633 -	145 701 +	4292 +	280 710 +	217 002 -	5447 -
a_4	22 597 -	18 337 -	225 +	14 048 +	8 031 -	1212 -
a_5	2 221 +	484 -		1 038 -	1 309 -	
May 31						
a_0	264.9612 486 +	19.9366 795 -	0.9085 3882 +	2.9040 208 +	3.2951 278 -	0.9369 0036 +
a_1	12.7758 562 +	1.2155 113 -	0.0047 1766 -	11.9352 553 +	4.4457 593 +	0.0132 0752 +
a_2	251 959 +	4617 710 +	6 5620 +	1201 528 +	1363 827 +	9 8923 +
a_3	180 391 -	67 897 +	5204 +	326 163 +	262 307 -	1 0340 -
a_4	11 121 -	20 821 -	109 +	9 128 +	14 761 -	1368 -
a_5	2 970 +	188 +		1 643 -	1 472 -	

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	14.9927 935+	1.2591 602+	0.9509 8002+	132.7972 196+	17.9986 892+	1.0073 1969+
a_1	12.2762 375+	4.6331 926+	0.0148 2099+	15.2615 538+	2.6910 251-	0.0086 6557-
a_2	2218 401+	473 562+	5 9717+	3764 572-	5709 768-	16 6732-
a_3	345 429+	335 769-	1 5913-	318 152-	520 226+	2 1067+
a_4	1 265+	22 490-	1300-	94 529+	28 486+	246+
a_5	3 035-	971-		4 320-	6 634-	
	June 10			June 18		
a_0	27.5252 370+	5.9037 861+	0.9662 2605+	147.6595 219+	14.7908 951+	0.9971 9991+
a_1	12.8225 325+	4.6176 953+	0.0154 8585+	14.4488 426+	3.6688 297-	0.0113 5845-
a_2	3231 944+	678 473-	4323+	4195 385-	4044 536-	10 2357-
a_3	318 957+	434 449-	2 1263-	15 368+	569 776+	2 1904+
a_4	13 778-	27 921-	838-	70 642+	4 820-	720-
a_5	5 110-	704+		6 573-	3 169-	
	June 11			June 19		
a_0	40.7009 708+	10.4074 675+	0.9815 3413+	161.6967 697+	10.7737 905+	0.9850 2973+
a_1	13.5565 410+	4.3408 530+	0.0149 0080+	13.6393 479+	4.3103 136-	0.0127 7736-
a_2	4054 927+	2142 385-	6 4202-	3791 263-	2395 737-	4 1118-
a_3	212 037+	537 308-	2 4765-	232 976+	520 399+	1 8868+
a_4	40 159-	24 920-	107+	37 046+	20 092-	1203-
a_5	6 474-	3 810+		5 117-	411-	
	June 12			June 20		
a_0	54.6795 448+	14.4782 402+	0.9955 4634+	174.9834 818+	6.2738 928+	0.9720 1784+
a_1	14.4118 400+	3.7431 244+	0.0128 7806+	12.9632 501+	4.6415 819-	0.0130 8185-
a_2	4384 994+	3865 679-	13 7463-	2921 208-	959 121-	8247+
a_3	11 748-	596 939-	2 4390-	331 122+	436 697+	1 3948+
a_4	74 909-	5 527-	1387+	11 632+	21 599-	1268-
a_5	3 870-	7 293+		3 124-	897+	
	June 13			June 21		
a_0	69.5208 314+	17.7752 795+	1.0068 1974+	187.6885 741+	1.5779 983+	0.9591 4526+
a_1	15.2534 255+	2.7923 435+	0.0094 5264+	12.4814 369+	4.7105 879-	0.0125 4922-
a_2	3861 291+	5616 450-	20 1956-	1889 248-	230 391+	4 2541+
a_3	345 123-	545 760-	1 8715-	347 147+	359 415+	8820+
a_4	96 382-	32 825+	2555+	3 642-	16 789-	1077-
a_5	4 868+	8 040+		1 853-	1 127+	
	June 14			June 22		
a_0	85.1167 223+	19.9554 885+	1.0140 9123+	200.0152 513+	3.0751 751-	0.9470 9888+
a_1	15.8860 380+	1.5224 704+	0.0049 5444+	12.2053 485+	4.5628 373-	0.0114 7690-
a_2	2296 611+	6976 065-	24 2615-	888 159-	1219 201+	6 2631+
a_3	676 858-	336 698-	8212-	314 373+	303 336+	4494+
a_4	69 970-	75 181+	3062+	12 679-	10 995-	775-
a_5	14 162+	3 394+		1 314-	776+	
	June 15			June 23		
a_0	101.1591 548+	20.7545 402+	1.0165 6802+	212.1618 219+	7.4867 805-	0.9362 8547+
a_1	16.1213 952+	0.0580 093+	0.0000 2159-	12.1163 002+	4.2320 067-	0.0101 2048-
a_2	11 430-	7501 163-	24 9008-	34 249-	2071 011+	7 1560+
a_3	815 351-	6 157-	4325+	250 653+	266 772+	1398+
a_4	5 929+	91 958+	2639+	19 213-	7 059-	457-
a_5	13 734+	3 976-		1 103-	172+	
	June 16			June 24		
a_0	117.1998 383+	20.0706 155+	1.0141 2598+	224.2977 310+	11.4856 976-	0.9268 9001+
a_1	15.8837 320+	1.4092 800-	0.0047 6635-	12.1764 106+	3.7405 110-	0.0086 6559-
a_2	2284 319-	7007 981-	22 0539-	591 388+	2830 693+	7 3102+
a_3	659 606-	319 649+	1 5026+	162 996+	239 893+	413-
a_4	76 323+	69 797+	1520+	24 877-	6 226-	173-
a_5	4 095+	7 927-		743-	465-	

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	236.5470 181 +	14.9198 191 -	0.9189 4958 +	336.0373 118 +	12.5708 906 -	0.9077 6295 +
a_1	12.3332 659 +	3.1051 278 -	0.0072 2287 -	11.7588 246 +	3.4336 224 +	0.0056 7631 +
a_2	923 651 +	3508 350 +	7 0893 +	949 229 -	2739 016 +	11 2933 +
a_3	56 569 +	210 081 +	1085 -	169 371 +	206 567 -	2784 +
a_4	28 837 -	8 674 -	51 +	22 114 +	1 490 -	458 -
a_5	129 +	918 -		938 -	229 -	
June 26						
a_0	248.9754 353 +	17.6540 630 -	0.9124 2531 +	347.7202 682 +	8.8841 953 -	0.9145 9185 +
a_1	12.5234 983 +	2.3443 622 -	0.0058 3549 -	11.6281 667 +	3.9187 439 +	0.0080 0020 +
a_2	921 610 +	4077 340 +	6 7993 +	317 810 -	2108 073 +	11 8453 +
a_3	56 701 -	166 183 +	857 -	248 466 +	215 173 -	967 +
a_4	28 317 -	13 465 -	204 +	17 438 +	2 672 -	736 -
a_5	1 501 +	962 -		888 -	834 -	
June 27						
a_0	261.5827 429 +	19.5755 156 -	0.9072 6323 +	359.3431 554 +	4.7765 120 -	0.9237 7889 +
a_1	12.6802 354 +	1.4849 058 -	0.0044 9314 -	11.6456 751 +	4.2743 205 +	0.0103 6883 +
a_2	596 648 +	4485 449 +	6 6674 +	523 357 +	1438 176 +	11 6842 +
a_3	154 222 -	102 963 +	15 -	309 219 +	234 466 -	1970 -
a_4	20 608 -	18 466 -	283 +	13 171 +	6 919 -	1048 -
a_5	2 798 +	503 -		1 070 -	1 303 -	
June 28						
a_0	274.3054 399 +	20.6034 772 -	0.9034 3951 +	11.0732 982 +	0.3826 427 -	0.9352 8596 +
a_1	12.7464 548 +	0.5645 644 -	0.0031 4878 -	11.8478 445 +	4.4881 967 +	0.0126 0465 +
a_2	38 387 +	4678 501 +	6 8330 +	1519 384 +	680 208 +	10 4554 +
a_3	208 438 -	24 506 +	1140 +	350 725 +	275 254 -	6177 -
a_4	6 133 -	21 035 -	290 +	8 145 +	13 617 -	1347 -
a_5	3 211 +	271 +		1 870 -	1 462 -	
June 29						
a_0	287.0345 973 +	20.6998 172 -	0.9009 8832 +	23.1087 811 +	4.1445 414 +	0.9488 6090 +
a_1	12.6907 521 +	0.3702 101 +	0.0017 3638 -	12.2592 596 +	4.5354 846 +	0.0144 5649 +
a_2	591 555 -	4628 540 +	7 3471 +	2601 782 +	241 940 -	7 7887 +
a_3	201 293 -	56 534 -	2318 +	363 611 +	344 019 -	1 1629 -
a_4	10 344 +	19 554 -	233 +	820 -	21 325 -	1526 -
a_5	2 445 +	951 +		3 578 -	926 -	
June 30						
a_0	299.6473 435 +	19.8742 666 -	0.9000 1216 +	35.6641 403 +	8.6192 049 +	0.9639 6472 +
a_1	12.5174 117 +	1.2716 125 +	0.0001 8808 -	12.8865 800 +	4.3749 000 +	0.0156 0427 +
a_2	1108 907 -	4351 159 +	8 1791 +	3651 924 +	1411 302 -	3 3888 +
a_3	136 267 -	125 095 -	3266 +	323 242 +	437 498 -	1 7862 -
a_4	22 653 +	14 588 -	123 +	18 678 -	26 605 -	1403 -
a_5	1 035 +	1 197 +		5 907 -	908 +	
July 1						
a_0	312.0426 067 +	18.1813 870 -	0.9006 7589 +	48.9457 784 +	12.8066 551 +	0.9797 1522 +
a_1	12.2643 278 +	2.0990 785 +	0.0015 5066 +	13.7035 117 +	3.9512 058 +	0.0156 8995 +
a_2	1371 464 -	3900 337 +	9 2281 +	4450 326 +	2874 433 -	2 7919 -
a_3	36 009 -	171 614 -	3772 +	188 976 +	532 865 -	2 3661 -
a_4	27 627 +	8 434 -	30 -	49 459 -	22 634 -	777 -
a_5	197 -	959 +		6 911 -	4 348 +	
July 2						
a_0	324.1689 302 +	15.7101 837 -	0.9031 8677 +	63.1075 832 +	16.4153 025 +	0.9948 8161 +
a_1	11.9901 837 +	2.8247 668 +	0.0035 0823 +	14.6270 356 +	3.2095 841 +	0.0143 9058 +
a_2	1315 738 -	3344 489 +	10 3355 +	4650 971 +	4565 275 -	10 3190 -
a_3	72 159 +	196 076 -	3664 +	75 469 -	577 864 -	2 6936 -
a_4	26 383 +	3 563 -	223 -	86 893 -	376 -	426 +
a_5	825 -	413 +		2 717 -	8 048 +	

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			July 19			
a_0	78.1832 080+	19.1113 399+	1.0079 7520+	196.7497 241+	1.7350 950-	0.9609 0236+
a_1	15.4984 854+	2.1270 437+	0.0115 3574+	12.5217 897+	4.7249 238-	0.0148 7713-
a_2	3875 802+	6220 307-	18 0972-	1664 636-	1160 969+	4 6568+
a_3	444 267-	498 855-	2 5253-	339 299+	338 413+	1 4417+
a_4	102 143-	42 161+	1954+	7 709-	20 499-	1446-
a_5	7 855+	8 243+		1 644-	1 381+	
July 12			July 20			
a_0	94.0154 181+	20.5715 078+	1.0174 6823+	209.1380 448+	6.3119 924-	0.9466 2063+
a_1	16.1034 449+	0.7543 051+	0.0072 3697+	12.2867 472+	4.3987 161-	0.0135 7112-
a_2	2009 205+	7381 156-	24 4631-	709 407-	2067 039+	8 1223+
a_3	769 648-	251 106-	1 7229-	292 310+	269 967+	8592+
a_4	59 309-	85 587+	3194+	15 753-	13 447-	1184-
a_5	16 353+	2 353+		1 174-	930+	
July 13			July 21			
a_0	110.2385 231+	20.5713 807+	1.0221 1854+	221.3813 895+	10.4782 596-	0.9339 3582+
a_1	16.2588 402+	0.7618 555-	0.0019 5543+	12.2256 707+	3.9092 327-	0.0117 3628-
a_2	491 303-	7597 528-	27 7061-	61 259+	2805 562+	9 9994+
a_3	845 364-	110 319+	4088-	217 736+	225 091+	3850+
a_4	27 749+	96 630+	3504+	21 649-	8 761-	856-
a_5	12 663+	5 610-		886-	258+	
July 14			July 22			
a_0	126.3677 379+	19.0699 062+	1.0212 9752+	233.6327 063+	14.0852 773-	0.9232 2942+
a_1	15.9243 894+	2.2124 224-	0.0035 6809-	12.2941 416+	3.2839 693-	0.0096 5514-
a_2	2734 203-	6743 275-	26 8541-	575 691+	3430 838+	10 6505+
a_3	613 965-	438 804+	1 0243+	122 613+	192 251+	436+
a_4	91 495+	65 950+	2709+	26 256-	7 526-	541-
a_5	1 413+	8 943-		332-	392-	
July 15			July 23			
a_0	141.9666 013+	16.2327 374+	1.0151 7353+	245.9940 196+	17.0077 295-	0.9146 3827+
a_1	15.2306 556+	3.4075 254-	0.0085 2321-	12.4353 967+	2.5433 334-	0.0075 3362-
a_2	4013 414-	5120 820-	22 2004-	782 650+	3958 490+	10 4649+
a_3	238 107-	614 334+	2 1179+	14 873+	157 991+	1714-
a_4	95 642+	19 667+	1250+	28 105-	9 632-	269-
a_5	5 964-	6 770-		708+	798-	
July 16			July 24			
a_0	156.7810 725+	12.3758 533+	1.0046 5457+	258.5064 289+	19.1404 579-	0.9081 3130+
a_1	14.3918 141+	4.2429 025-	0.0122 7796-	12.5855 021+	1.7084 899-	0.0055 0283-
a_2	4213 821-	3227 502-	15 1407-	665 722+	4366 662+	9 7962+
a_3	84 216+	627 524+	2 6075+	89 728-	111 497+	2774-
a_4	63 782+	14 125-	182-	24 554-	13 819-	47-
a_5	6 811-	2 849-		2 002+	774-	
July 17			July 25			
a_0	170.7656 233+	7.8712 555+	0.9911 2146+	271.1472 754+	20.4025 912-	0.9035 7989+
a_1	13.5964 244+	4.7072 172-	0.0145 3123-	12.6829 090+	0.8076 224-	0.0036 2867-
a_2	3646 646-	1458 076-	7 4567-	269 287+	4610 478+	8 9414+
a_3	272 357+	544 188+	2 5157+	167 418-	48 749+	2944-
a_4	29 332+	27 698-	1124-	14 226-	17 840-	124+
a_5	4 768-	4+		2 890+	304-	
July 18			July 26			
a_0	184.0270 751+	3.0698 801+	0.9760 8489+	283.8392 377+	20.7461 054-	0.9008 1717+
a_1	12.9581 532+	4.8466 516-	0.0153 1292-	12.6822 956+	0.1218 103+	0.0019 2371-
a_2	2701 221-	8 427+	5960-	289 356-	4646 638+	8 1366+
a_3	343 152+	434 181+	2 0493+	195 480-	25 270-	2428-
a_4	5 798+	27 097-	1494-	672+	19 372-	241+
a_5	2 771-	1 253+		2 787+	373+	

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	296.4733 956+	20.1640 581-	0.8996 8525+	31.8921 956+	7.2845 959+	0.9473 0362+
a_1	12.5674 412+	1.0359 952+	0.0003 5957-	12.3597 684+	4.3389 796+	0.0127 6297+
a_2	843 861-	4458 345+	7 5548+	2824 426+	1104 978-	7 4002+
a_3	165 507-	98 730-	1443-	334 914+	360 807-	6852-
a_4	14 869+	17 379-	298+	6 048-	17 951-	1321-
a_5	1 761+	894+		3 928-	350-	
July 28						
a_0	308.9415 631+	18.6937 498-	0.9000 6972+	44.5669 003+	11.4751 670+	0.9607 2488+
a_1	12.3558 439+	1.8915 410+	0.0011 2007+	13.0207 425+	4.0023 887+	0.0139 8456+
a_2	1233 559-	4066 849+	7 3009+	3753 557+	2298 689-	4 5485+
a_3	89 153-	159 225-	228-	270 450+	434 998-	1 2219-
a_4	23 630+	12 735-	291+	25 976-	20 264-	1439-
a_5	470+	1 026+		5 727-	1 558+	
July 29						
a_0	321.1675 457+	16.4126 173-	0.9019 2051+	57.9868 732+	15.2023 162+	0.9750 2771+
a_1	12.0920 721+	2.6525 623+	0.0025 8506+	13.8393 356+	3.4048 282+	0.0144 7008+
a_2	1354 568-	3523 048+	7 4048+	4351 554+	3709 736-	274+
a_3	9 534+	200 040-	958+	109 592+	498 703-	1 8119-
a_4	25 760+	7 476-	216+	56 173-	12 796-	1202-
a_5	457-	780+		5 339-	4 665+	
July 30						
a_0	333.1276 447+	13.4284 237-	0.9052 5780+	72.2661 722+	18.1854 875+	0.9893 0733+
a_1	11.8340 939+	3.2945 591+	0.0041 0342+	14.7173 919+	2.5104 872+	0.0138 8383+
a_2	1176 003-	2885 879+	7 8175+	4289 556+	5235 856-	6 1056-
a_3	107 778+	222 417-	1844+	165 256-	501 763-	2 3109-
a_4	23 274+	3 523-	75+	85 284-	11 312+	442-
a_5	837-	310+		229+	7 345+	
July 31						
a_0	344.8571 599+	9.8678 398-	0.9101 6216+	87.3874 886+	20.1240 785+	1.0023 4510+
a_1	11.6401 179+	3.8037 549+	0.0057 2527+	15.4917 378+	1.3209 831+	0.0119 5169+
a_2	721 407-	2200 589+	8 4096+	3284 354+	6599 526-	13 2641-
a_3	192 476+	233 718-	2165+	498 851-	383 666-	2 5009-
a_4	19 010+	1 972-	128-	84 326-	50 099+	833+
a_5	867-	223-		9 644+	6 388+	
August 1						
a_0	356.4461 990+	5.8676 173-	0.9167 4875+	103.1503 087+	20.7523 912+	1.0127 2863+
a_1	11.5607 497+	4.1728 563+	0.0074 6701+	15.9700 501+	0.0907 944-	0.0085 8193+
a_2	38 579-	1485 364+	8 9739+	1378 855+	7385 838-	20 2229-
a_3	259 831+	244 123-	1669+	737 185-	122 607-	2 1640-
a_4	14 741+	3 124-	391-	32 189-	83 490+	2276+
a_5	882-	713-		14 268+	673+	
August 2						
a_0	8.0304 598+	1.5710 205-	0.9251 2593+	119.1827 338+	19.9191 686+	1.0190 9464+
a_1	11.6364 383+	4.3950 858+	0.0092 9625+	16.0189 182+	1.5710 187-	0.0039 7934+
a_2	820 573+	727 109+	9 2306+	882 633-	7246 127-	25 3191-
a_3	309 771+	263 944-	119+	726 345-	214 490+	1 2281-
a_4	10 534+	6 776-	701-	42 726+	85 905+	3260+
a_5	1 225-	1 056-		8 627+	5 717-	
August 3						
a_0	19.7808 634+	2.8695 986+	0.9353 3942+	135.0458 895+	17.6530 050+	1.0204 5186+
a_1	11.8970 842+	4.4580 861+	0.0111 1789+	15.6458 819+	2.9243 963-	0.0013 2233-
a_2	1800 885+	115 968-	8 8352+	2719 124-	6144 700-	27 0476-
a_3	339 082+	301 603-	2687-	474 386-	499 617+	1113+
a_4	4 718+	12 256-	1034-	85 246+	55 235+	3257+
a_5	2 205-	1 061-		704-	7 973-	

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			August 20		
a_0	150.3808 747+	14.1688 266+	1.0164 6845+	255.2196 455+	18.6898 262-	0.9139 0816+
a_1	14.9934 821+	3.9853 418-	0.0065 6808-	12.6155 412+	1.9436 318-	0.0080 0692-
a_2	3638 192-	4394 343-	24 7902-	421 687+	4376 602+	12 8046+
a_3	143 338-	641 889+	1 4393+	34 143-	100 631+	224-
a_4	79 311+	14 192+	2265+	22 735-	11 800-	586-
a_5	5 661-	6 009-		1 363+	449-	
	August 13			August 21		
a_0	165.0035 687+	9.8090 576+	1.0075 8792+	267.8718 040+	20.1869 596-	0.9071 7360+
a_1	14.2517 358+	4.6689 679-	0.0110 0370-	12.6812 244+	1.0430 663-	0.0054 7616-
a_2	3649 153-	2443 616-	19 1577-	196 506+	4603 188+	12 3929+
a_3	117 174+	640 445+	2 3492+	110 971-	48 995+	2555-
a_4	49 619+	15 841-	811+	15 747-	14 182-	358-
a_5	5 719-	2 694-		2 209+	355-	
	August 14			August 22		
a_0	178.9064 968+	4.9579 192+	0.9949 1146+	280.5602 282+	20.7662 612-	0.9029 0760+
a_1	13.5740 478+	4.9732 380-	0.0140 9813-	12.6820 406+	0.1135 800-	0.0030 8856-
a_2	3057 130-	644 192-	11 6633-	208 746-	4661 520+	11 4174+
a_3	259 449+	551 613+	2 6603+	151 748-	11 083-	3979-
a_4	20 837+	28 793-	475-	4 374-	16 026-	165-
a_5	3 947-	150-		2 416+	1+	
	August 15			August 23		
a_0	192.2024 654+	0.0274 709-	0.9799 0828+	293.2060 236+	20.4163 999-	0.9009 1934+
a_1	13.0468 195+	4.9481 832-	0.0156 5179-	12.5942 247+	0.8089 898+	0.0009 3104-
a_2	2193 196-	836 461+	3 9913-	666 036-	4532 131+	10 1300+
a_3	304 235+	435 665+	2 4521+	145 407-	74 948-	4631-
a_4	1 359+	29 039-	1244-	7 978+	15 991-	2+
a_5	2 373-	1 080+		1 848+	402+	
	August 16			August 24		
a_0	205.0602 875+	4.8512 374-	0.9640 9013+	305.7200 867+	19.1632 506-	0.9009 5501+
a_1	12.6988 093+	4.6612 668-	0.0157 6425-	12.4215 099+	1.6867 368+	0.0009 5610+
a_2	1296 026-	1980 068+	2 6105+	1035 893-	4215 380+	8 7461+
a_3	286 489+	330 435+	1 9401+	95 574-	134 749-	4615-
a_4	10 263-	23 317-	1494-	17 283+	13 886-	142+
a_5	1 455-	1 281+		856+	642+	
	August 17			August 25		
a_0	217.6569 712+	9.2836 575-	0.9487 6601+	318.0302 639+	17.0697 751-	0.9027 4099+
a_1	12.5207 188+	4.1748 094-	0.0147 1991-	12.1929 995+	2.4841 551+	0.0025 7255+
a_2	512 674-	2844 303+	7 5373+	1210 370-	3734 258+	7 4499+
a_3	231 200+	249 766+	1 3348+	18 399-	183 865-	4035-
a_4	17 456-	16 762-	1397-	21 445+	10 579-	246+
a_5	938-	904+		48-	643+	
	August 18			August 26		
a_0	230.1477 032+	13.1506 458-	0.9349 1935+	330.1025 260+	14.2315 743-	0.9060 2065+
a_1	12.4800 930+	3.5372 723-	0.0128 6788-	11.9539 588+	3.1719 368+	0.0039 5135+
a_2	66 796+	3502 077+	10 7115+	1137 407-	3125 625+	6 3889+
a_3	152 298+	191 429+	7734+	66 586+	219 865-	3030-
a_4	22 219-	12 217-	1141-	21 037+	7 305-	299+
a_5	425-	321+		578-	448+	
	August 19			August 27		
a_0	242.6474 413+	16.3197 571-	0.9231 8856+	341.9514 485+	10.7697 472-	0.9105 8357+
a_1	12.5300 426+	2.7841 549-	0.0105 3919-	11.7545 784+	3.7284 039+	0.0051 5020+
a_2	386 109+	4006 263+	12 3560+	817 226-	2426 684+	5 6589+
a_3	59 626+	145 476+	3171+	144 836+	244 777-	1808-
a_4	24 474-	10 685-	852-	18 045+	5 040-	283+
a_5	355+	196-		766-	149+	

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	353-6405 158+	6-8236 417-	0-9162 8441+	97-5589 257+	20-7781 031+	0-9937 9547+
a_1	11-6414 191+	4-1383 660+	0-0062 3907+	15-3303 201+	0-3950 242+	0-0100 3350+
a_2	282 106-	1663 608+	5 2832+	2048 909+	6765 375-	8 5155-
a_3	209 313+	263 628-	648-	516 124-	209 062-	1 8643-
a_4	14 220+	4 298-	185+	45 784-	55 405+	34-
a_5	831-	173-		9 586+	3 034+	
August 29						
a_0	5-2759 946+	2-5457 248-	0-9230 4718+	113-0389 046+	20-4815 277+	1-0027 9065+
a_1	11-6530 642+	4-3901 933+	0-0072 8370+	15-5717 436+	0-9970 949-	0-0077 6969+
a_2	422 862+	845 204+	5 1943+	322 112+	7029 743-	14 0963-
a_3	257 759+	282 700-	120+	603 672-	40 462+	1 8846-
a_4	10 175+	5 202-	4+	5 038+	70 889+	1031+
a_5	1 037-	441-		9 092+	1 284-	
August 30						
a_0	16-9980 347+	1-9001 546+	0-9308 5154+	128-5839 053+	18-7924 652+	1-0089 7258+
a_1	11-8185 154+	4-4721 228+	0-0083 2631+	15-4616 196+	2-3631 948-	0-0044 2633+
a_2	1246 853+	38 531-	5 2245+	1367 587-	6495 984-	19 0993-
a_3	287 753+	307 967-	155+	495 846-	309 182+	1 4647-
a_4	5 182+	7 512-	251-	51 626+	63 582+	2087+
a_5	1 617-	536-		3 241+	4 799-	
August 31						
a_0	28-9703 673+	6-3368 227+	0-9396 9933+	143-8646 683+	15-8164 685+	1-0113 6339+
a_1	12-1554 752+	4-3687 539+	0-0093 6581+	15-0616 130+	3-5466 049-	0-0002 5068+
a_2	2125 063+	1012 897-	5 1108+	2513 119-	5235 100-	22 2231-
a_3	291 698+	343 197-	842-	260 130-	514 994+	6078-
a_4	2 720-	10 406-	554-	66 708+	38 474+	2672+
a_5	2 680-	244-		2 381-	5 667-	
September 1						
a_0	41-3669 787+	10-5689 022+	0-9495 6226+	158-6553 890+	11-8011 336+	1-0093 5770+
a_1	12-6655 679+	4-0589 321+	0-0103 4056+	14-5064 401+	4-4265 694-	0-0042 6927-
a_2	2957 025+	2107 411-	4 5167+	2917 283-	3516 030-	22 4492-
a_3	253 317+	386 688-	3068-	18 408-	612 928+	4868+
a_4	16 199-	11 957-	855-	53 370+	9 554+	2483+
a_5	3 929-	727+		4 548-	4 391-	
September 2						
a_0	54-3515 680+	14-3773 013+	0-9603 1525+	172-8731 422+	7-0847 703+	1-0029 1701+
a_1	13-3245 237+	3-5170 262+	0-0111 1762+	13-9365 354+	4-9442 688-	0-0085 1368-
a_2	3580 379+	3331 990-	3 0764+	2697 862-	1663 841-	19 5256-
a_3	149 113+	426 214-	6532-	149 801+	608 386+	1 4963+
a_4	36 604-	8 619-	1075-	29 980+	12 449-	1615+
a_5	4 215-	2 516+		4 107-	2 371-	
September 3						
a_0	68-0449 589+	17-5178 969+	0-9716 6444+	186-5574 586+	2-0334 740+	0-9926 1653+
a_1	14-0685 873+	2-7205 772+	0-0114 9391+	13-4518 428+	5-1006 843-	0-0119 0534-
a_2	3765 726+	4637 155-	4716+	2109 661-	62 947+	14 1029-
a_3	37 939-	434 371-	1 0918-	229 338+	535 887+	2 1428+
a_4	59 172-	4 118+	1093-	9 400+	24 067-	481+
a_5	1 654-	4 564+		2 885-	627-	
September 4						
a_0	82-4802 423+	19-7321 899+	0-9830 8540+	199-8219 207+	3-0097 963-	0-9795 1997+
a_1	14-7858 615+	1-6667 652+	0-0112 1691+	13-1010 307+	4-9372 678-	0-0140 6392-
a_2	3280 204+	5869 773-	3 4494-	1394 080-	1519 981+	7 4160-
a_3	287 839-	371 899-	1 5418-	238 698+	433 960+	2 3245+
a_4	68 368-	27 901+	773-	4 891-	26 897-	484-
a_5	4 221+	5 251+		1 832-	420+	
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	212.8067 408+	7.7543 178-	0.9649 4206+	314.5156 394+	17.8407 715-	0.9037 3128+
a_1	12.8909 524+	4.5136 323-	0.0148 6918-	12.2555 936+	2.2889 513+	0.0022 2630+
a_2	725 642-	2664 711+	7505-	1148 048-	3915 218+	10 7482+
a_3	201 265+	330 782+	2 1176+	4 094-	161 464-	6152-
a_4	13 970-	24 555-	1057-	18 118+	9 659-	201-
a_5	1 067-	775+		21-	240+	
September 14						
a_0	225.6437 519+	11.9707 788-	0.9501 9903+	326.6578 285+	15.1773 867-	0.9069 6887+
a_1	12.8000 831+	3.8908 902-	0.0144 2633-	12.0319 920+	3.0198 118+	0.0041 8333+
a_2	216 337-	3517 493+	4 9619+	1051 850-	3375 270+	8 7866+
a_3	135 125+	240 254+	1 6843+	67 903+	197 781-	6962-
a_4	19 322-	20 553-	1250-	17 892+	8 452-	47-
a_5	377-	667+		471-	102+	
September 15						
a_0	238.4337 438+	15.4878 830-	0.9364 2482+	338.5931 679+	11.8406 611-	0.9119 6077+
a_1	12.7894 368+	3.1232 034-	0.0129 7867-	11.8489 140+	3.6322 016+	0.0057 2991+
a_2	69 330+	4121 611+	9 2667+	745 510-	2732 234+	6 6749+
a_3	54 533+	164 558+	1 1787+	134 637+	230 641-	7150-
a_4	21 259-	17 201-	1190-	15 463+	7 956-	116+
a_5	419+	388+		675-	24-	
September 16						
a_0	251.2334 831+	18.1841 508-	0.9244 7878+	350.3824 735+	7.9590 982-	0.9182 8783+
a_1	12.8113 699+	2.2562 006-	0.0108 1935-	11.7460 508+	4.1062 616+	0.0068 5503+
a_2	109 571+	4515 947+	12 0939+	255 568-	1992 330+	4 6042+
a_3	25 822-	99 505+	7006+	189 666+	262 750-	6676-
a_4	19 142-	15 321-	1015-	12 094+	8 103-	266+
a_5	1 272+	169+		794-	99-	
September 17						
a_0	264.0514 408+	19.9803 214-	0.9149 2874+	2.1230 641+	3.6806 988-	0.9255 3918+
a_1	12.8185 173+	1.3292 036-	0.0082 3099-	11.7562 771+	4.4226 116+	0.0075 8623+
a_2	70 005-	4724 217+	13 5927+	378 064+	1154 463+	2 7640+
a_3	89 317-	39 884+	2947+	229 963+	296 153-	5590-
a_4	12 617-	14 547-	816-	8 206+	8 636-	366+
a_5	1 895+	121+		1 023-	98-	
September 18						
a_0	276.8529 538+	20.8345 576-	0.9080 7832+	13.9408 621+	0.8268 705+	0.9333 4957+
a_1	12.7736 219+	0.3781 532-	0.0054 5669-	11.9036 490+	4.5611 552+	0.0079 8599+
a_2	394 674-	4757 792+	13 9925+	1106 974+	213 199+	1 3070+
a_3	120 789-	17 047-	310-	252 260+	331 602-	4092-
a_4	2 889-	13 975-	636-	3 218+	9 193-	378+
a_5	1 982+	208+		1 522-	27+	
September 19						
a_0	289.5749 386+	20.7400 130-	0.9040 1142+	25.9806 042+	5.3752 687+	0.9414 2912+
a_1	12.6582 850+	0.5628 051+	0.0026 9294-	12.2012 474+	4.5006 512+	0.0081 3976+
a_2	754 532-	4624 880+	13 5225+	1867 862+	836 512-	3030+
a_3	112 810-	70 814-	2849-	249 461+	367 892-	2543-
a_4	7 215+	12 918-	483-	4 297-	9 181-	279+
a_5	1 490+	310+		2 316-	382+	
September 20						
a_0	302.1473 599+	19.7230 620-	0.9026 3741+	38.3929 227+	9.7545 996+	0.9495 7653+
a_1	12.4771 657+	1.4615 247+	0.0000 9321-	12.6467 808+	4.2195 007+	0.0081 3521+
a_2	1034 766-	4338 035+	12 3827+	2567 288+	1991 478-	2993-
a_3	69 502-	119 379-	4777-	208 680+	400 369-	1399-
a_4	14 706+	11 324-	343-	16 009-	7 444-	73+
a_5	700+	326+		3 101-	1 110+	
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			October 7			
a_0	51.3153 893+	13.7342 822+	0.9576 6855+	167.3734 881+	9.0465 117+	0.9957 3353+
a_1	13.2148 884+	3.6986 729+	0.0080 3631+	13.8444 611+	4.7333 155-	0.0032 8120-
a_2	3066 174+	3226 170-	6837-	2181 200-	2493 805-	15 9597-
a_3	113 722+	418 409-	1095-	122 957+	550 340+	1276-
a_4	32 122-	2 013-	200-	28 231+	3 756+	1732+
a_5	3 006-	2 225+		3 549-	2 411-	
September 30			October 8			
a_0	64.8447 546+	17.0685 183+	0.9656 2353+	181.0145 932+	4.1189 842+	0.9908 6092+
a_1	13.8478 910+	2.9282 246+	0.0078 5869+	13.4546 270+	5.0666 768-	0.0064 4207-
a_2	3184 408+	4471 202-	1 1409-	1678 452-	844 359-	15 3080-
a_3	43 555-	403 599-	1910-	200 781+	541 694+	5799+
a_4	48 160-	9 281+	473-	10 346+	8 286-	1582+
a_5	849-	3 318+		2 851-	1 649-	
October 1			October 9			
a_0	79.0018 299+	19.5105 228+	0.9733 4431+	194.3222 025+	0.9789 526-	0.9829 6186+
a_1	14.4520 224+	1.9182 761+	0.0075 5429+	13.1818 845+	5.0771 785-	0.0092 6637-
a_2	2756 220+	5593 048-	2 0031-	1042 543-	714 525+	12 6355-
a_3	242 266-	333 230-	3845-	214 113+	492 459+	1 2221+
a_4	52 930-	26 458+	655-	3 886-	16 483-	1046+
a_5	3 409+	3 469+		2 056-	964-	
October 2			October 10			
a_0	93.7002 956+	20.8391 638+	0.9806 5329+	207.4206 498+	5.9371 774-	0.9725 6460+
a_1	14.9111 232+	0.7120 136+	0.0070 1208+	13.0350 282+	4.7936 103-	0.0113 8499-
a_2	1746 081+	6399 201-	3 5496-	444 082-	2083 377+	8 3630-
a_3	417 810-	193 565-	6540-	178 452+	417 203+	1 6416+
a_4	34 868-	44 474+	654-	14 171-	21 230-	348+
a_5	7 150+	1 971+		1 304-	426-	
October 3			October 11			
a_0	108.7414 740+	20.8965 454+	0.9872 3846+	220.4275 675+	10.4828 954-	0.9605 1094+
a_1	15.1246 235+	0.6071 238-	0.0060 7974+	12.9934 280+	4.2604 789-	0.0125 5124-
a_2	355 215+	6693 320-	5 8961-	6 803-	3203 352+	3 2490-
a_3	485 884-	2 588+	9247-	109 234+	328 235+	1 7752+
a_4	2 813+	54 468+	396-	20 769-	23 294-	276-
a_5	6 977+	599-		443-	63-	
October 4			October 12			
a_0	123.8540 096+	19.6257 352+	0.9926 3216+	233.4291 174+	14.3925 514-	0.9478 0955+
a_1	15.0545 106+	1.9235 262-	0.0046 0721+	13.0163 098+	3.5306 871-	0.0126 7956-
a_2	1015 653-	6364 809-	8 8917-	191 845+	4047 661+	1 8982+
a_3	407 070-	213 266+	1 0907-	22 341+	234 570+	1 6572+
a_4	38 625+	51 000+	127+	23 052-	23 584-	688-
a_5	3 018+	2 700-		619+	182+	
October 5			October 13			
a_0	138.7704 123+	17.0918 848+	0.9962 4240+	246.4646 024+	17.4973 557-	0.9354 7866+
a_1	14.7462 134+	3.1134 588-	0.0025 0670+	13.0524 707+	2.6601 264-	0.0118 3030-
a_2	1975 015-	5446 088-	12 0669-	126 752+	4611 684+	6 4511+
a_3	224 823-	389 826+	1 0421-	63 072-	142 186+	1 3755+
a_4	53 133+	36 945+	809+	19 879-	22 682-	876-
a_5	1 264-	3 440-		1 684+	409+	
October 6			October 14			
a_0	153.3018 288+	13.4761 503+	0.9974 4630+	259.5216 216+	19.6843 224-	0.9244 2225+
a_1	14.3043 824+	4.0726 703-	0.0001 8692-	13.0517 904+	1.7040 018-	0.0101 6252-
a_2	2343 465-	4089 383-	14 6889-	164 861-	4906 241+	10 0508+
a_3	26 184-	503 369+	7123-	125 394-	55 688+	1 0211+
a_4	45 821+	19 460+	1428+	11 189-	20 632-	902-
a_5	3 403-	3 128-		2 310+	650+	

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	272.5434 986+	20.8941 295-	0.9153 5791+	10.0963 193+	0.6793 720-	0.9353 3277+
a_1	12.9778 791+	0.7139 749-	0.0078 8210-	11.9215 778+	4.6235 978+	0.0098 4030+
a_2	585 033-	4956 019+	12 5748+	1210 336+	683 083+	2 0425+
a_3	147 134-	20 246-	6589+	265 533+	325 798-	1 1580-
a_4	686+	17 329-	844-	2 008+	14 655-	192+
a_5	2 166+	821+		1 643-	117-	
October 16						
a_0	285.4484 463+	21.1161 779-	0.9087 9073+	22.1655 205+	3.9784 771+	0.9452 6345+
a_1	12.8180 890+	0.2646 338+	0.0052 0323-	12.2432 858+	4.6565 553+	0.0099 0909+
a_2	1000 630-	4799 527+	14 0476+	2002 572+	383 436-	1 3064-
a_3	123 179-	81 365-	3214+	256 614+	385 141-	1 0803-
a_4	11 700+	13 134-	765-	6 108-	15 402-	516+
a_5	1 370+	806+		2 559-	648+	
October 17						
a_0	298.1554 615+	20.3809 607-	0.9050 1675+	34.6338 582+	8.5566 993+	0.9549 3903+
a_1	12.5863 737+	1.1952 788+	0.0023 2788-	12.7170 606+	4.4584 902+	0.0093 4437+
a_2	1286 263-	4484 698+	14 5551+	2710 143+	1624 814-	4 2305-
a_3	63 232-	125 978-	161+	206 123+	439 600-	8698-
a_4	18 522+	9 025-	696-	19 100-	12 307-	759+
a_5	392+	572+		3 404-	1 804+	
October 18						
a_0	310.6087 771+	18.7506 553-	0.9041 3902+	47.6402 950+	12.8076 978+	0.9637 8096+
a_1	12.3177 555+	2.0511 003+	0.0005 6011+	13.3115 849+	3.9976 283+	0.0082 6773+
a_2	1360 929-	4058 334+	14 1872+	3179 766+	2999 410-	6 3824-
a_3	14 354+	156 578-	2621-	95 902+	470 016-	5597-
a_4	20 330+	6 134-	644-	36 880-	3 267-	831+
a_5	337-	196+		3 100-	3 150+	
October 19						
a_0	322.7938 744+	16.3099 733-	0.9060 8521+	61.2754 487+	16.4583 718+	0.9713 6280+
a_1	12.0578 390+	2.8134 374+	0.0032 9315+	13.9600 098+	3.2570 108+	0.0068 5663+
a_2	1199 279-	3553 752+	13 0160+	3215 022+	4397 497-	7 5670-
a_3	92 096+	179 380-	5203-	81 011-	451 108-	2207-
a_4	18 500+	5 172-	591-	53 531-	12 889+	694+
a_5	684-	195-		338-	4 007+	
October 20						
a_0	334.7427 766+	13.1596 354-	0.9106 2201+	75.5434 726+	19.2322 118+	0.9774 4758+
a_1	11.8526 694+	3.4682 069+	0.0057 1659+	14.5571 348+	2.2493 375+	0.0053 0477+
a_2	818 849-	2982 619+	11 1029+	2647 367+	5633 302-	7 8224-
a_3	159 192+	202 191-	7585-	295 750-	359 863-	607+
a_4	15 015+	6 203-	507-	55 602-	33 700+	388+
a_5	773-	492-		4 560+	3 367+	
October 21						
a_0	346.5309 046+	9.4140 554-	0.9173 6798+	90.3306 648+	20.8859 395+	0.9819 8007+
a_1	11.7422 770+	4.0013 457+	0.0076 8933+	14.9779 259+	1.0298 792+	0.0037 7405+
a_2	258 902-	2333 893+	8 5281+	1472 307+	6476 935-	7 4185-
a_3	211 491+	231 997-	9638-	470 552-	192 765-	2161+
a_4	11 186+	8 745-	356-	31 361-	51 105+	20+
a_5	826-	619-		8 182+	946+	
October 22						
a_0	358.2694 765+	5.2034 565-	0.9258 1019+	105.4064 483+	21.2540 537+	0.9850 3409+
a_1	11.7580 049+	4.3947 178+	0.0090 9158+	15.1227 671+	0.3024 258-	0.0023 5598+
a_2	434 442+	1579 228+	5 4307+	45 387-	6739 180-	6 7675-
a_3	247 831+	273 103-	1 1089-	514 804-	19 494+	2203+
a_4	7 169+	11 944-	119-	11 667+	55 587+	286-
a_5	1 063-	515-		7 044+	1 914-	

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	120-4750 675 +	20-2850 266 +	0-9867 3249 +	228-4567 067 +	13-0748 645 -	0-9504 7616 +
a_1	14-9674 324 +	1-6231 375 -	0-0010 5711 +	12-9738 249 +	3-8759 658 -	0-0098 9083 -
a_2	1449 258 -	6366 431 -	6 2825 -	664 142 +	3624 295 +	2 9478 -
a_3	400 361 -	221 852 +	997 +	34 999 +	308 863 +	1 0496 +
a_4	47 537 +	45 228 +	431 -	29 240 -	20 042 -	342 +
a_5	2 269 +	3 383 -		216 +	896 -	
November 1						
a_0	135-2625 185 +	18-0516 157 +	0-9871 6701 +	241-4975 432 +	16-5596 084 -	0-9403 9893 +
a_1	14-5776 168 +	2-8134 681 -	0-0001 8675 -	13-1055 666 +	3-0669 126 -	0-0101 5183 -
a_2	2342 557 -	5463 418 -	6 2399 -	595 847 +	4421 644 +	3955 +
a_3	189 978 -	369 086 +	794 -	78 886 -	220 008 +	1 1855 +
a_4	57 997 +	27 746 +	367 -	28 209 -	24 668 -	4 -
a_5	2 030 -	3 078 -		1 825 +	417 -	
November 2						
a_0	149-5924 786 +	14-7311 812 +	0-9863 4466 +	254-6521 675 +	19-1648 643 -	0-9304 0515 +
a_1	14-0742 941 +	3-7858 654 -	0-0014 7326 -	13-1907 006 +	2-1266 564 -	0-0097 1725 -
a_2	2584 953 -	4220 479 -	6 6905 -	208 234 +	4929 479 +	3 9407 +
a_3	20 691 +	449 896 +	2315 -	172 750 -	117 601 +	1 1811 +
a_4	46 807 +	12 279 +	111 -	18 755 -	26 821 -	290 -
a_5	3 746 -	1 990 -		3 098 +	342 +	
November 3						
a_0	163-4146 526 +	10-5692 865 +	0-9841 7810 +	267-8448 509 +	20-7894 605 -	0-9211 9718 +
a_1	13-5803 607 +	4-4910 746 -	0-0028 8524 -	13-1745 699 +	1-1160 366 -	0-0085 8639 -
a_2	2279 569 -	2816 987 -	7 4400 -	391 481 -	5124 791 +	7 3041 +
a_3	170 527 +	479 625 +	2777 -	216 713 -	14 161 +	1 0621 +
a_4	27 602 +	2 523 +	260 +	2 709 -	25 026 -	481 -
a_5	3 567 -	1 099 -		3 228 +	1 085 +	
November 4						
a_0	176-7865 126 +	5-8446 181 +	0-9805 2368 +	280-9586 534 +	21-3939 959 -	0-9134 4260 +
a_1	13-1848 632 +	4-9101 245 -	0-0044 4617 -	13-0317 893 +	0-0962 974 -	0-0068 2617 -
a_2	1638 047 -	1373 938 -	8 1063 -	1025 534 -	5027 999 +	10 1986 +
a_3	245 688 +	478 943 +	1715 -	195 877 -	74 882 -	8676 +
a_4	9 740 +	2 768 -	622 +	13 812 +	19 396 -	588 -
a_5	2 821 -	730 -		2 144 +	1 453 +	
November 5						
a_0	189-8328 318 +	0-8446 443 +	0-9752 5595 +	293-8698 972 +	20-9967 760 -	0-9077 1718 +
a_1	12-9334 464 +	5-0427 013 -	0-0060 9396 -	12-7745 144 +	0-8798 057 +	0-0045 4969 -
a_2	870 742 -	39 001 +	8 2406 -	1508 856 -	4701 536 +	12 4469 +
a_3	256 800 +	460 565 +	833 +	120 066 -	138 022 -	6314 +
a_4	4 274 -	6 306 -	849 +	24 519 +	11 930 -	645 -
a_5	2 199 -	754 -		604 +	1 300 +	
November 6						
a_0	202-7042 367 +	4-1488 064 -	0-9683 5475 +	306-4840 317 +	19-6616 819 -	0-9044 6887 +
a_1	12-8335 295 +	4-8996 312 -	0-0076 8311 -	12-4468 316 +	1-7745 837 +	0-0018 9667 -
a_2	147 976 -	1375 322 +	7 4810 -	1715 937 -	4228 904 +	13 9530 +
a_3	218 010 +	427 706 +	4301 +	16 617 -	173 052 -	3736 +
a_4	15 272 -	10 063 -	862 +	27 277 +	5 327 -	688 -
a_5	1 708 -	926 -		555 -	762 +	
November 7						
a_0	215-5430 716 +	8-8692 337 -	0-9599 7516 +	318-7602 802 +	17-4819 694 -	0-9039 9799 +
a_1	12-8623 754 +	4-5007 436 -	0-0090 1578 -	12-1092 923 +	2-5666 985 +	0-0009 7851 +
a_2	397 319 +	2588 787 +	5 6795 -	1607 708 -	3685 408 +	14 6595 +
a_3	140 262 +	378 133 +	7806 +	86 661 +	187 125 -	991 +
a_4	23 978 -	14 760 -	666 +	24 243 +	1 511 -	742 -
a_5	1 006 -	1 031 -		1 033 -	94 +	

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	330.7197 889+	14.5655 844-	0.9064 4493+	70.6912 860+	18.5156 708+	0.9871 8496+
a_1	11.8229 298+	3.2470 841+	0.0039 1045+	14.7427 083+	2.7361 238+	0.0076 9707+
a_2	1212 614-	3115 895+	14 5092+	3457 303+	5487 742-	14 3219-
a_3	173 298+	192 586-	1975-	298 624-	478 228-	8425-
a_4	18 952+	1 092-	814-	77 873-	30 795+	1730+
a_5	1 026-	515-		4 169+	5 877+	
November 17			November 25			
a_0	342.4405 796+	11.0263 300-	0.9117 7841+	85.7424 919+	20.6588 647+	0.9933 8289+
a_1	11.6394 641+	3.8117 928+	0.0067 2047+	15.3155 246+	1.5103 593+	0.0046 4920+
a_2	589 268-	2526 428+	13 4262+	2136 107+	6678 696-	15 8154-
a_3	238 914+	202 363-	5239-	564 653-	298 213-	1356-
a_4	13 843+	3 741-	883-	55 509-	61 528+	1604+
a_5	894-	967-		10 989+	2 484+	
November 18			November 26			
a_0	354.0463 032+	6.9826 016-	0.9197 8028+	101.2107 100+	21.4779 344+	0.9964 5303+
a_1	11.5983 749+	4.2543 889+	0.0092 1323+	15.5566 410+	0.1110 042+	0.0015 0968+
a_2	201 615+	1887 201+	11 3246+	219 501+	7179 338-	15 2755-
a_3	285 301+	227 132-	8797-	676 827-	30 107-	5160+
a_4	9 515+	8 688-	898-	3 022+	73 827+	1082+
a_5	964-	1 196-		10 944+	2 591-	
November 19			November 27			
a_0	5.6942 248+	2.5631 942-	0.9300 2902+	116.7230 149+	20.8751 178+	0.9964 9757+
a_1	11.7276 115+	4.5596 167+	0.0111 7829+	15.4041 663+	1.3056 634-	0.0013 4734-
a_2	1105 001+	1141 695+	8 1504+	1683 189-	6852 817-	13 0997-
a_3	313 402+	273 764-	1 2442-	559 106-	237 619+	9501+
a_4	4 928+	14 848-	784-	59 247+	59 417+	386+
a_5	1 501-	1 074-		4 059+	5 512-	
November 20			November 28			
a_0	17.5640 193+	2.0816 235+	0.9418 9008+	131.9092 823+	18.9133 250+	0.9939 3911+
a_1	12.0438 516+	4.6993 515+	0.0124 0369+	14.9255 175+	2.5839 299-	0.0036 6687-
a_2	2059 801+	220 539+	3 9570+	2964 631-	5838 751-	10 0372-
a_3	317 432+	343 475-	1 5654-	285 352-	420 439+	1 0985+
a_4	2 325-	20 507-	468-	78 159+	30 673+	233-
a_5	2 659-	374-		2 679-	4 948-	
November 21			November 29			
a_0	29.8450 958+	6.7665 932+	0.9545 2826+	146.5173 495+	15.7901 365+	0.9893 7604+
a_1	12.5487 803+	4.6320 289+	0.0127 0673+	14.2769 069+	3.6157 507-	0.0053 5414-
a_2	2971 559+	936 719-	1 0029-	3378 773-	4442 906-	6 8935-
a_3	280 668+	428 342-	1 7593-	995-	494 916+	9962+
a_4	15 608-	22 750-	77+	63 021+	5 730+	614-
a_5	4 207-	1 162+		5 161-	2 690-	
November 22			November 30			
a_0	42.7171 172+	11.2599 572+	0.9669 5955+	160.4620 656+	11.7798 909+	0.9834 2604+
a_1	13.2189 449+	4.3076 664+	0.0119 8145+	13.6234 822+	4.3549 075-	0.0064 5856-
a_2	3677 732+	2346 655-	6 2129-	3055 347-	2950 622-	4 2763-
a_3	175 799+	506 373-	1 7303-	199 768+	492 075+	7423+
a_4	37 396-	17 173-	769+	36 494+	7 365-	717-
a_5	4 940-	3 507+		4 560-	719-	
November 23			December 1			
a_0	56.3171 815+	15.2809 541+	0.9781 5437+	173.8031 832+	7.1783 202+	0.9766 0691+
a_1	13.9898 057+	3.6813 099+	0.0102 5056+	13.0846 621+	4.8007 139-	0.0071 1983-
a_2	3931 102+	3933 689-	10 9231-	2282 679-	1525 717-	2 4756-
a_3	21 730-	538 744-	1 4168-	300 898+	456 002+	4497+
a_4	63 858-	753+	1403+	13 728+	10 549-	592-
a_5	2 526-	5 747+		3 214-	259+	

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						
a_0	186.6907 186+	2.2696 058+	0.9692 7857+	289.6161 114+	21.3926 022-	0.9090 7348+
a_1	12.7222 810+	4.9731 466-	0.0075 0376-	12.9458 658+	0.5364 817+	0.0052 2369-
a_2	1329 721-	218 373-	1 4739-	1342 257-	4917 980+	7 7181+
a_3	324 210+	416 472+	2099+	214 555-	120 938-	7626+
a_4	2 094-	8 970-	329-	23 117+	19 655-	140-
a_5	2 288-	374+		1 815+	1 785+	
December 3						
a_0	199.3120 102+	2.6845 907-	0.9616 4512+	302.4087 892+	20.3782 034-	0.9046 9647+
a_1	12.5516 182+	4.8952 816-	0.0077 4875-	12.6232 003+	1.4768 263+	0.0034 5687-
a_2	392 522-	980 978+	1 0325-	1829 096-	4455 120+	9 9173+
a_3	293 195+	384 092+	782+	105 001-	181 849-	7061+
a_4	13 388-	6 952-	24-	31 981+	10 475-	295-
a_5	1 883-	42-		55-	1 532+	
December 4						
a_0	211.8521 687+	7.4440 647-	0.9538 0070+	314.8417 723+	18.4749 442-	0.9022 9900+
a_1	12.5547 763+	4.5866 610-	0.0079 3273-	12.2386 443+	2.3098 707+	0.0012 7337-
a_2	387 897+	2091 125+	8041-	1952 824-	3862 055+	11 8542+
a_3	221 011+	355 501+	710+	21 754+	208 828-	5879+
a_4	22 880-	7 132-	240+	31 308+	2 714-	437-
a_5	1 575-	678-		1 111-	836+	
December 5						
a_0	224.4653 903+	11.7868 441-	0.9457 9706+	326.8903 293+	15.7999 386-	0.9022 6547+
a_1	12.6887 202+	4.0649 781-	0.0080 6264-	11.8665 732+	3.0189 649+	0.0012 5637+
a_2	897 853+	3108 041+	4421-	1710 864-	3227 649+	13 3513+
a_3	114 211+	319 884+	1708+	135 751+	211 777-	4136+
a_4	31 059-	10 626-	403+	25 474+	1 453+	582-
a_5	783-	1 224-		1 306-	45+	
December 6						
a_0	237.2521 327+	15.5102 148-	0.9377 1132+	338.6018 080+	12.4792 367-	0.9048 9251+
a_1	12.8897 410+	3.3522 675-	0.0080 8369-	11.5746 626+	3.6015 648+	0.0040 2744+
a_2	1046 260+	3991 659+	3131+	1163 837-	2601 482+	14 2377+
a_3	16 921-	265 076+	3359+	224 719+	205 914-	1817+
a_4	35 292-	16 985-	441+	18 867+	1 621+	750-
a_5	830+	1 341-		1 063-	646-	
December 7						
a_0	250.2413 614+	18.4386 415-	0.9296 9693+	350.0843 393+	8.6380 175-	0.9103 5439+
a_1	13.0802 170+	2.4818 769-	0.0079 0266-	11.4163 266+	4.0604 118+	0.0068 9951+
a_2	792 048+	4671 525+	1 5828+	387 094-	1986 996+	14 3269+
a_3	148 650-	184 039+	5152+	289 680+	206 202-	1174-
a_4	31 099-	23 968-	365+	13 640+	1 677-	946-
a_5	2 842+	797-		840-	1 181-	
December 8						
a_0	263.3830 924+	20.4374 385-	0.9220 0773+	1.4922 046+	4.3998 120-	0.9186 6539+
a_1	13.1830 140+	1.5023 446-	0.0074 1691-	11.4308 479+	4.3946 891+	0.0096 9182+
a_2	188 001+	5071 849+	3 3430+	555 425+	1346 506+	13 4007+
a_3	243 938-	80 811+	6629+	335 745+	224 912-	4965-
a_4	16 315-	28 075-	215+	9 665+	7 682-	1150-
a_5	4 074+	273+		1 000-	1 519-	
December 9						
a_0	276.5592 885+	21.4272 973-	0.9149 9355+	13.0130 360+	0.1061 164+	0.9296 3614+
a_1	13.1429 430+	0.4748 236-	0.0065 4084-	11.6460 213+	4.5926 847+	0.0121 7703+
a_2	600 862-	5148 588+	5 4551+	1610 699+	610 463+	11 2174+
a_3	268 723-	28 158-	7491+	363 896+	270 801-	9599-
a_4	4 775+	26 564-	35+	5 008+	15 482-	1291-
a_5	3 608+	1 321+		1 861-	1 494-	

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	24-8568 316+	4-7310 698+	0-9428 2601+	142-1978 774+	16-9843 031+	1-0067 5714+
a_1	12-0784 008+	4-6265 984+	0-0140 8085+	14-9978 400+	3-4324 236-	0-0064 9724-
a_2	2713 881+	309 828-	7 5647+	3845 710-	5225 079-	16 9513-
a_3	364 300+	347 200-	1 4847-	188 620-	577 683+	1 8344+
a_4	3 935-	23 364-	1246-	92 141+	17 612+	438+
a_5	3 624-	719-		6 029-	5 744-	
December 19						
a_0	37-2422 945+	9-2895 571+	0-9575 0240+	156-8008 956+	13-0883 266+	0-9987 5258+
a_1	12-7270 784+	4-4507 700+	0-0150 9846+	14-2059 529+	4-2999 579-	0-0093 1972-
a_2	3746 920+	1498 895-	2 3750+	3919 280-	3443 777-	11 2152-
a_3	311 067+	446 641-	1 9963-	119 247+	592 674+	1 9977+
a_4	22 126-	27 577-	863-	60 190+	10 933-	533-
a_5	5 859-	1 343+		6 541-	2 245-	
December 20						
a_0	50-3723 732+	13-5431 500+	0-9726 3012+	170-6322 101+	8-5019 406+	0-9885 0579+
a_1	13-5580 025+	4-0066 432+	0-0149 4000+	13-4786 787+	4-8164 042-	0-0109 8483-
a_2	4488 577+	2990 910-	4 1060-	3265 849-	1753 715-	5 5587-
a_3	163 739+	541 545-	2 3552-	295 671+	527 868+	1 7699+
a_4	52 809-	21 276-	45-	27 200+	21 533-	1072-
a_5	6 446-	4 789+		4 596-	124+	
December 21						
a_0	64-3896 818+	17-1948 991+	0-9869 2355+	183-8161 315+	3-5608 107+	0-9771 3135+
a_1	14-4804 990+	3-2398 853+	0-0134 1040+	12-9227 944+	5-0173 370-	0-0116 0856-
a_2	4598 077+	4695 202-	11 1630-	2261 546-	297 997-	8966-
a_3	109 132-	576 980-	2 3794-	359 524+	443 526+	1 3295+
a_4	87 855-	3 409+	1108+	4 548+	20 404-	1198-
a_5	1 667-	8 006+		2 841-	1 050+	
December 22						
a_0	79-3101 231+	19-9087 077+	0-9989 9079+	196-5488 944+	1-4439 089-	0-9655 5410+
a_1	15-3314 110+	2-1331 164+	0-0105 0834+	12-5787 421+	4-9515 157-	0-0114 3699-
a_2	3726 715+	6325 303-	17 6022-	1184 051-	920 694+	2 3776+
a_3	471 362-	483 689-	1 9270-	349 828+	372 377+	8436+
a_4	97 364-	45 704+	2228+	9 329-	14 856-	1043-
a_5	8 797+	7 416+		1 955-	983+	
December 23						
a_0	94-9582 129+	21-3662 369+	1-0075 6848+	209-0430 858+	6-2675 048-	0-9544 2879+
a_1	15-9008 061+	0-7449 318+	0-0064 9902+	12-4421 717+	4-6611 152-	0-0107 5016-
a_2	1816 972+	7427 734-	22 0288-	210 072-	1958 544+	4 2913+
a_3	768 892-	230 126-	1 0118-	293 166+	322 441+	4236+
a_4	49 521-	84 547+	2815+	18 988-	9 796-	747-
a_5	16 042+	1 356+		1 636-	379+	
December 24						
a_0	110-9604 792+	21-3539 729+	1-0117 9159+	221-4915 046+	10-7014 632-	0-9441 4264+
a_1	16-0217 407+	0-7751 639-	0-0019 0247+	12-4796 947+	4-1764 038-	0-0097 9473-
a_2	625 714-	7597 420-	23 3826-	539 121+	2870 886+	5 1239+
a_3	809 094-	117 654+	1415+	201 087+	286 589+	1246+
a_4	35 484+	90 296+	2569+	27 318-	7 883-	413-
a_5	11 377+	5 724-		1 271-	424-	
December 25						
a_0	126-8434 252+	19-8392 896+	1-0113 9564+			
a_1	15-6737 400+	2-2260 982-	0-0026 2874-			
a_2	2726 323-	6760 272-	21 4453-			
a_3	559 416-	420 205+	1 1853+			
a_4	92 336+	59 272+	1624+			
a_5	525+	8 088-				

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.