

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 2014 January 21^d 13^h 23^m 48^s.32 UT1, using an assumed value of $\Delta T = 67^s$.

$$\text{TT} = 13^{\text{h}} 24^{\text{m}} 55^{\text{s}}.32, \text{ hence } p = 0.558\ 973\ 61$$

	right ascension	declination	horizontal parallax
b_1	$-0.000\ 1100$	$+0.000\ 0840$	$-0.000\ 005\ 59$
b_2	$+0.000\ 6703$	$+0.000\ 5750$	$+0.000\ 015\ 08$
b_3	$+0.028\ 7564$	$+0.024\ 6653$	$+0.001\ 002\ 93$
b_4	$+0.111\ 0225$	$-0.009\ 3818$	$+0.008\ 634\ 54$
b_5	$+11.604\ 7268$	$-4.070\ 6124$	$\pi = +0.922\ 331\ 33$
b_6	$\alpha = 179.240\ 4986$	$\delta = -2.621\ 9165$	
	$= 11^{\text{h}} 56^{\text{m}} 57^{\text{s}}.720$	$= -2^\circ 37' 18''.90$	$= 55' 20''.393$

DAILY POLYNOMIAL COEFFICIENTS

	Apparent Right Ascension	Apparent Declination	Horizontal Parallax	Apparent Right Ascension	Apparent Declination	Horizontal Parallax
January 0			January 8			
a_0	257.9689 725 +	19.5093 275 -	1.0141 0539 +	13.8791 900 +	7.7262 388 +	0.9543 8241 +
a_1	15.9033 721 +	0.2782 707 -	0.0100 5476 +	12.6621 235 +	4.0618 297 +	0.0143 6788 -
a_2	1943 109 +	6898 197 +	22 3974 -	695 946 -	2478 618 -	6 8154 +
a_3	691 043 -	195 019 +	2 3196 -	237 330 +	256 359 -	1 0995 +
a_4	47 158 -	76 718 -	2866 +	16 615 -	15 750 +	1369 -
a_5	13 687 +	2 094 -		1 066 -	793 -	
January 1			January 9			
a_0	273.9942 042 +	19.0861 577 -	1.0217 1712 +	26.4936 839 +	11.5160 666 +	0.9407 9233 +
a_1	16.0726 575 +	1.1281 480 +	0.0049 9423 +	12.5869 550 +	3.4951 028 +	0.0127 2973 -
a_2	275 539 -	7002 078 +	27 6104 -	94 331 -	3161 128 -	9 3028 +
a_3	744 568 -	129 000 -	1 1389 -	160 547 +	200 946 -	5501 +
a_4	25 273 +	86 698 -	3727 +	22 058 -	11 756 +	1028 -
a_5	10 434 +	4 679 +		501 -	197 -	
January 2			January 10			
a_0	289.9684 217 +	17.2789 037 -	1.0238 7368 +	39.0850 045 +	14.6761 178 +	0.9290 3761 +
a_1	15.8094 956 +	2.4575 278 +	0.0007 2025 -	12.6071 798 +	2.8071 976 +	0.0107 4526 -
a_2	2253 231 -	6141 985 +	28 8016 -	249 908 +	3695 395 -	10 3472 +
a_3	544 166 -	427 159 -	3916 +	67 767 +	155 608 -	1397 +
a_4	77 740 +	61 182 -	3382 +	24 760 -	10 840 +	676 -
a_5	1 396 +	7 876 +		302 +	306 +	
January 3			January 11			
a_0	305.5060 913 +	14.2552 238 -	1.0203 4623 +	51.7215 061 +	17.0993 296 +	0.9193 3428 +
a_1	15.2273 872 +	3.5372 411 +	0.0062 2770 -	12.6677 398 +	2.0259 253 +	0.0086 6096 -
a_2	3405 663 -	4572 389 +	25 6389 -	307 646 +	4094 102 -	10 3701 +
a_3	222 848 -	593 911 -	1 7663 +	27 652 -	109 073 -	1293 -
a_4	82 415 +	20 362 -	2035 +	23 362 -	12 507 +	363 -
a_5	4 792 -	6 387 +		1 325 +	508 +	
January 4			January 12			
a_0	320.3783 896 +	10.3215 325 -	1.0117 5161 +	64.4150 415 +	18.7062 391 +	0.9116 9377 +
a_1	14.5099 688 +	4.2685 904 +	0.0107 4421 -	12.7122 919 +	1.1796 400 +	0.0066 4026 -
a_2	3627 906 -	2732 364 +	19 1693 -	97 773 +	4341 173 -	9 7722 +
a_3	58 161 +	613 397 -	2 5769 +	107 345 -	54 061 -	2729 -
a_4	56 698 +	11 660 +	399 +	16 622 -	15 193 +	103 -
a_5	5 842 -	3 021 +		2 196 +	330 +	
January 5			January 13			
a_0	334.5364 695 +	5.8395 773 -	0.9993 5215 +	77.1249 336 +	19.4479 079 +	0.9060 0241 +
a_1	13.8215 956 +	4.6372 158 +	0.0137 8912 -	12.6940 926 +	0.3014 285 +	0.0047 7180 -
a_2	3171 742 -	992 262 +	11 2380 -	302 005 -	4408 894 -	8 8980 +
a_3	227 309 +	538 115 -	2 7179 +	151 749 -	9 747 +	3123 -
a_4	26 990 +	26 202 +	862 -	5 368 -	16 908 +	101 +
a_5	4 370 -	314 +		2 442 +	125 -	
January 6			January 14			
a_0	348.0658 838 +	1.1542 952 -	0.9847 0240 +	89.7733 582 +	19.3110 998 +	0.9020 9019 +
a_1	13.2640 526 +	4.6848 699 +	0.0152 5594 -	12.5872 402 +	0.5707 265 -	0.0030 8184 -
a_2	2371 575 -	461 818 -	3 6216 -	765 018 -	4279 466 -	8 0263 +
a_3	292 500 +	430 939 -	2 3528 +	149 113 -	75 850 +	2699 -
a_4	5 245 +	27 200 +	1494 -	7 042 +	16 238 +	247 +
a_5	2 734 -	991 -		1 901 +	604 -	
January 7			January 15			
a_0	1.1222 799 +	3.4439 199 +	0.9693 0464 +	102.2700 795 +	18.3215 752 +	0.8997 8648 +
a_1	12.8782 198 +	4.4736 088 +	0.0153 3423 -	12.3932 684 +	1.3976 718 -	0.0015 4763 -
a_2	1489 930 -	1601 404 -	2 5374 +	1151 110 -	3960 542 -	7 3677 +
a_3	286 763 +	332 182 -	1 7415 +	102 503 -	134 611 +	1688 -
a_4	8 248 -	21 879 +	1589 -	16 559 +	13 106 +	330 +
a_5	1 681 -	1 192 -		908 +	867 -	

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	114.5397 333 +	16.5425 341 +	0.8989 6202 +	209.0320 967 +	12.0306 654 -	0.9506 5321 +
a_1	12.1393 722 +	2.1445 882 -	0.0001 1156 -	12.9054 268 +	3.4562 056 -	0.0137 9998 +
a_2	1350 218 -	3486 762 -	7 0593 +	3520 090 +	2465 840 +	7 5081 +
a_3	27 719 -	178 382 +	348 -	225 339 +	375 471 +	9073 -
a_4	20 930 +	8 661 +	344 +	24 343 -	15 152 +	1524 -
a_5	2 -	831 -		4 422 -	1 366 -	
January 17			January 25			
a_0	126.5434 045 +	14.0678 910 +	0.8995 5636 +	222.3091 899 +	15.2013 612 -	0.9650 9803 +
a_1	11.8693 830 +	2.7853 766 -	0.0013 0363 +	13.6650 994 +	2.8450 211 -	0.0149 6841 +
a_2	1307 863 -	2907 962 -	7 1594 +	4005 645 +	3669 541 +	3 8715 +
a_3	55 652 +	204 879 +	1049 +	84 176 +	421 056 +	1 5281 -
a_4	20 681 +	4 450 +	288 +	47 691 -	8 558 +	1550 -
a_5	531 -	557 -		3 799 -	3 749 -	
January 18			January 26			
a_0	138.2895 814 +	11.0125 955 +	0.9015 8929 +	236.3781 224 +	17.6368 416 -	0.9802 8529 +
a_1	11.6325 127 +	3.3040 031 -	0.0027 7852 +	14.4705 102 +	1.9832 494 -	0.0152 2221 +
a_2	1022 165 -	2272 193 -	7 6432 +	3933 785 +	4946 494 +	1 6285 -
a_3	132 963 +	217 335 +	2222 +	142 108 -	416 654 +	2 1663 -
a_4	17 840 +	1 658 +	166 +	68 379 -	10 718 -	1110 -
a_5	692 -	165 -		448 +	5 823 -	
January 19			January 27			
a_0	149.8348 888 +	7.5032 559 +	0.9051 5601 +	251.2210 072 +	19.0854 303 -	0.9951 1692 +
a_1	11.4747 589 +	3.6926 600 -	0.0043 8047 +	15.1875 145 +	0.8761 524 -	0.0142 0210 +
a_2	523 172 -	1611 885 -	8 4037 +	3101 633 +	6073 708 +	8 7607 -
a_3	197 402 +	222 555 +	2905 +	407 378 -	315 859 +	2 6306 -
a_4	14 310 +	855 +	19 -	66 315 -	41 288 -	52 -
a_5	682 -	247 +		7 158 +	5 361 -	
January 20			January 28			
a_0	161.2784 335 +	3.6717 731 +	0.9104 0571 +	266.6720 314 +	19.3272 910 -	1.0081 7939 +
a_1	11.4347 280 +	3.9478 045 -	0.0061 4762 +	15.6626 842 +	0.4141 556 +	0.0116 5865 +
a_2	148 065 +	936 609 -	9 2564 +	1553 533 +	6719 769 +	16 6362 -
a_3	247 766 +	228 658 +	2849 +	599 092 -	99 378 +	2 6610 -
a_4	10 919 +	2 141 +	261 -	28 036 -	69 321 -	1498 +
a_5	740 -	608 +		10 692 +	1 340 -	
January 21			January 29			
a_0	172.7537 625 +	0.3465 516 -	0.9175 0485 +	282.4284 253 +	18.2382 868 -	1.0179 2331 +
a_1	11.5426 682 +	4.0653 682 -	0.0080 7393 +	15.7877 907 +	1.7595 302 +	0.0075 9310 +
a_2	949 484 +	231 690 -	9 9450 +	304 684 -	6588 625 +	23 6748 -
a_3	283 817 +	243 439 +	1820 +	606 189 -	188 374 -	2 0482 -
a_4	7 318 +	5 280 +	559 -	27 976 +	75 684 -	2998 +
a_5	1 100 -	840 +		7 227 +	3 857 +	
January 22			January 30			
a_0	184.4203 826 +	4.4101 329 -	0.9265 8590 +	298.1286 489 +	15.8459 142 -	1.0229 7409 +
a_1	11.8200 862 +	4.0361 426 -	0.0100 9520 +	15.5597 935 +	2.9924 008 +	0.0023 6380 +
a_2	1833 853 +	538 738 +	10 1452 +	1883 150 -	5608 172 +	27 9989 -
a_3	301 588 +	272 924 +	404 -	425 794 -	450 951 -	8132 -
a_4	1 970 +	9 666 +	901 -	64 011 +	54 946 -	3706 +
a_5	1 944 -	786 +		467 +	6 622 +	
January 23			January 31			
a_0	196.4540 156 +	8.3640 641 -	0.9376 8257 +	313.4639 957 +	12.3426 237 -	1.0224 9373 +
a_1	12.2771 480 +	3.8422 590 -	0.0120 7607 +	15.0812 579 +	3.9600 818 +	0.0033 3151 -
a_2	2730 998 +	1423 419 +	9 4725 +	2772 054 -	3992 029 +	28 2301 -
a_3	289 272 +	319 078 +	4016 -	167 637 -	604 866 -	7072 +
a_4	7 683 -	13 919 +	1252 -	64 669 +	20 672 -	3213 +
a_5	3 256 -	161 +		3 923 -	5 942 +	

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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 1			February 9			
a_0	328.2573 590+	8.0452 987-	1.0164 4205+	73.9065 988+	19.1251 080+	0.9106 2121+
a_1	14.5004 608+	4.5717 269+	0.0086 3675-	12.7136 176+	0.5595 660+	0.0072 5033-
a_2	2926 381-	2112 855+	24 2236-	476 496-	4397 010-	12 8749+
a_3	51 293+	629 564-	2 0112+	90 532-	13 569+	1645-
a_4	43 795+	9 324+	1803+	5 986-	13 078+	480-
a_5	4 686-	3 417+		1 751+	118-	
February 2			February 10			
a_0	342.4742 218+	3.3239 686-	1.0056 0209+	86.5630 901+	19.2476 259+	0.9046 3711+
a_1	13.9457 483+	4.8108 637+	0.0128 0600-	12.5896 392+	0.3105 932-	0.0047 4393-
a_2	2556 670-	314 222+	17 1572-	766 498-	4279 011-	12 1001+
a_3	180 196+	559 526-	2 7268+	97 110-	64 615+	3554-
a_4	19 939+	26 086+	201+	2 879+	12 504+	255-
a_5	3 618-	938+		1 492+	268-	
February 3			February 11			
a_0	356.1839 548+	1.4650 671+	0.9913 5505+	99.0668 055+	18.5168 167+	0.9010 6510+
a_1	13.4946 411+	4.7167 518+	0.0154 1146-	12.4091 031+	1.1421 435-	0.0024 4073-
a_2	1932 635-	1198 535-	8 8928-	1025 646-	4012 827-	10 8868+
a_3	224 542+	446 676-	2 7880+	71 000-	111 872+	4565-
a_4	1 859+	30 300+	980-	10 348+	11 140+	64-
a_5	2 320-	570-		890+	393-	
February 4			February 12			
a_0	9.5077 405+	6.0202 708+	0.9753 2331+	111.3673 678+	16.9856 524+	0.8996 6675+
a_1	13.1750 614+	4.3548 764+	0.0163 9292-	12.1872 570+	1.9068 881-	0.0004 0288-
a_2	1271 054-	2362 519-	1 1345-	1167 683-	3614 311-	9 4840+
a_3	209 378+	331 472-	2 3767+	21 061-	152 473+	4811-
a_4	9 664-	27 084+	1538-	14 705+	9 138+	98+
a_5	1 325-	1 069-		242+	424-	
February 5			February 13			
a_0	22.5755 353+	10.1083 496+	0.9590 3923+	123.4372 450+	14.7334 519+	0.9001 6514+
a_1	12.9791 365+	3.7932 304+	0.0159 6837-	11.9534 042+	2.5805 653-	0.0013 5352+
a_2	714 169-	3205 151-	5 0710+	1140 253-	3106 309-	8 1037+
a_3	157 922+	233 751-	1 7492+	39 908+	184 818+	4405-
a_4	16 300-	21 548+	1594-	15 765+	6 992+	228+
a_5	558-	923-		229-	357-	
February 6			February 14			
a_0	35.4973 613+	13.5597 523+	0.9437 3694+	135.2821 683+	11.8614 011+	0.9022 8726+
a_1	12.8768 809+	3.0902 332+	0.0144 9320-	11.7435 172+	3.1437 629-	0.0028 5123+
a_2	343 809-	3786 352-	9 3689+	928 257-	2513 466-	6 9215+
a_3	87 564+	156 570-	1 1062+	100 532+	209 299+	3476-
a_4	19 173-	16 891+	1373-	14 484+	5 202+	312+
a_5	171+	537-		466-	223-	
February 7			February 15			
a_0	48.3467 175+	16.2573 287+	0.9302 7752+	146.9443 148+	8.4877 194+	0.9057 9901+
a_1	12.8268 054+	2.2924 800+	0.0123 4251-	11.5935 857+	3.5816 967-	0.0041 4377+
a_2	194 462-	4160 079-	11 8731+	544 444-	1856 577-	6 0668+
a_3	13 018+	94 183-	5558+	153 738+	227 982+	2204-
a_4	18 373-	14 258+	1058-	12 056+	4 101+	333+
a_5	918+	202-		557-	55-	
February 8			February 16			
a_0	61.1536 330+	18.1257 881+	0.9191 6731+	158.4999 798+	4.7435 678+	0.9105 3075+
a_1	12.7849 289+	1.4378 116+	0.0098 4348-	11.5353 619+	3.8830 045-	0.0053 0435+
a_2	256 470-	4359 091-	12 9152+	16 482-	1148 570-	5 6036+
a_3	50 942-	39 092-	1335+	196 338+	243 931+	845-
a_4	13 743-	13 329+	749-	9 226+	3 856+	276+
a_5	1 525+	62-		646-	116+	

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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	170-0541 853+	0-7704 966+	0-9163 8976+	276-4091 723+	18-6254 249-	0-9975 9975+
a_1	11-5943 337+	4-0379 385-	0-0064 1075+	15-2017 091+	1-1623 988+	0-0102 3038+
a_2	621 417+	392 470-	5 5109+	638 596+	6222 221+	10 2892-
a_3	226 661+	260 577+	285+	445 973-	36 588-	2 0724-
a_4	6 010+	4 489+	132+	1 554+	55 808-	245+
a_5	883-	245+		6 124+	184+	
February 18						
a_0	181-7338 395+	3-2801 577-	0-9233 5577+	291-6309 115+	16-8500 251-	1-0065 9642+
a_1	11-7885 775+	4-0363 411-	0-0075 2678+	15-1993 160+	2-3736 385+	0-0075 6057+
a_2	1328 634+	418 664+	5 6687+	628 662-	5779 492+	16 3222-
a_3	241 618+	280 968+	838+	380 402-	256 434-	1 9781-
a_4	1 654+	5 811+	93-	32 934+	54 580-	1465+
a_5	1 370-	243+		2 716+	2 885+	
February 19						
a_0	193-6794 706+	7-2459 303-	0-9314 5686+	306-7328 860+	13-9292 503-	1-0123 4162+
a_1	12-1267 653+	3-8658 725-	0-0086 8194+	14-9739 900+	3-4322 188+	0-0037 6138+
a_2	2049 702+	1298 889+	5 8551+	1545 194-	4711 646+	21 3448-
a_3	234 125+	306 467+	483+	223 670-	445 071-	1 3782-
a_4	5 179-	7 188+	386-	45 995+	39 525-	2533+
a_5	2 098-	39-		1 084-	4 327+	
February 20						
a_0	206-0338 910+	10-9505 523-	0-9407 2528+	321-5344 806+	10-0738 937-	1-0138 5603+
a_1	12-6038 220+	3-5112 999-	0-0098 5200+	14-6157 041+	4-2273 804+	0-0008 1958-
a_2	2699 985+	2261 061+	5 7580+	1951 218-	3182 629+	23 9475-
a_3	192 061+	334 401+	1057-	51 725-	559 946-	3376-
a_4	15 874-	7 218+	715-	39 646+	17 349-	2936+
a_5	2 758-	771-		3 086-	4 243+	
February 21						
a_0	218-9250 544+	14-2016 613-	0-9511 3536+	335-9535 464+	5-5855 555-	1-0106 3730+
a_1	13-1937 091+	2-9562 673-	0-0109 4328+	14-2242 582+	4-6911 035+	0-0055 9276-
a_2	3153 246+	3299 885+	5 0023+	1899 487-	1441 169+	23 2132-
a_3	101 115+	354 862+	3937-	75 831+	587 564-	8638+
a_4	30 284-	3 537+	1024-	23 573+	4 133+	2455+
a_5	2 584-	1 984-		3 258-	3 109+	
February 22						
a_0	232-4409 128+	16-7922 987-	0-9625 2926+	349-9974 705+	0-8083 672-	1-0028 3414+
a_1	13-8412 896+	2-1894 106-	0-0117 8464+	13-8749 116+	4-8062 742+	0-0098 7799-
a_2	3248 905+	4365 835+	3 2009+	1563 181-	265 640-	19 1826-
a_3	44 700-	348 434+	8091-	137 937+	540 810-	1 8584+
a_4	44 132-	6 494-	1218-	7 010+	19 661+	1342+
a_5	608-	3 286-		2 516-	1 615+	
February 23						
a_0	246-5981 488+	18-5112 604-	0-9745 4090+	3-7303 070+	3-9193 896+	0-9912 3714+
a_1	14-4597 076+	1-2159 543-	0-0121 3332+	13-6052 032+	4-5995 738+	0-0131 0334-
a_2	2843 848+	5339 238+	451+	1132 504-	1753 984-	12 8400-
a_3	225 209-	289 363+	1 3070-	141 371+	446 753-	2 3905+
a_4	47 661-	23 481-	1155-	5 685-	27 534+	115+
a_5	3 095+	3 745-		1 538-	342+	
February 24						
a_0	261-3152 637+	19-1670 773-	0-9865 3648+	17-2356 745+	8-3016 774+	0-9770 8999+
a_1	14-9434 010+	0-0725 613-	0-0117 0395+	13-4180 713+	4-1259 347+	0-0149 4968-
a_2	1913 309+	6028 882+	4 5542-	757 907-	2925 658-	5 6280-
a_3	383 122-	158 715+	1 7839-	103 833+	333 650-	2 4224+
a_4	31 387-	42 960-	687-	13 445-	29 005+	799-
a_5	6 276+	2 499-		568-	441-	

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	30.5869 371 +	12.1045 376 +	0.9618 1175 +	131.8629 122 +	12.6422 389 +	0.9031 5737 +
a_1	13.2919 787 +	3.4520 890 +	0.0153 8062 -	11.7955 970 +	2.9540 752 -	0.0026 5641 +
a_2	532 772 -	3757 015 -	1 1451 +	887 655 -	2701 632 -	10 2429 +
a_3	44 922 +	222 229 -	2 0883 +	117 861 +	186 256 +	6480 -
a_4	16 301 -	26 640 +	1256 -	11 492 +	5 184 +	127 -
a_5	349 +	767 -		482 -	151 +	
March 6						
a_0	43.8285 357 +	15.1612 895 +	0.9467 4192 +	143.5826 309 +	9.4371 596 +	0.9067 7200 +
a_1	13.1925 561 +	2.6442 896 +	0.0145 7539 -	11.6577 800 +	3.4363 758 -	0.0045 0550 +
a_2	492 324 -	4271 547 -	6 6539 +	469 961 -	2110 243 -	8 2277 +
a_3	16 356 -	123 382 -	1 5764 +	158 963 +	208 532 +	6989 -
a_4	14 514 -	22 728 +	1335 -	9 014 +	5 992 +	32 +
a_5	1 113 +	827 -		541 -	206 +	
March 7						
a_0	56.9688 837 +	17.3682 763 +	0.9329 7621 +	155.2101 584 +	5.8112 324 +	0.9120 3069 +
a_1	13.0839 359 +	1.7616 434 +	0.0128 2510 -	11.6148 119 +	3.7933 652 -	0.0059 4263 +
a_2	617 341 -	4513 602 -	10 5864 +	55 595 +	1446 624 -	6 1547 +
a_3	63 048 -	40 724 -	1 0381 +	189 549 +	234 541 +	6859 -
a_4	8 847 -	18 560 +	1197 -	6 287 +	7 082 +	189 +
a_5	1 532 +	789 -		642 -	169 +	
March 8						
a_0	69.9840 492 +	18.6762 642 +	0.9213 0160 +	166.8500 492 +	1.8973 840 +	0.9185 2209 +
a_1	12.9387 806 +	0.8537 352 +	0.0104 4428 -	11.6849 890 +	4.0094 106 -	0.0069 7537 +
a_2	844 237 -	4532 311 -	12 9890 +	655 533 +	698 808 -	4 2143 +
a_3	83 141 -	25 668 +	5583 +	208 141 +	264 476 +	6089 -
a_4	1 063 -	14 593 +	981 -	3 075 +	7 994 +	317 +
a_5	1 486 +	713 -		886 -	37 +	
March 9						
a_0	82.8301 342 +	19.0807 232 +	0.9122 0223 +	178.6216 245 +	2.1546 568 -	0.9258 6117 +
a_1	12.7453 080 +	0.0395 457 -	0.0077 1824 -	11.8793 242 +	4.0666 138 -	0.0076 4826 +
a_2	1085 184 -	4374 883 -	14 0820 +	1289 536 +	142 964 +	2 5798 +
a_3	72 788 -	76 983 +	1667 +	211 348 +	296 664 +	4793 -
a_4	6 419 +	11 004 +	765 -	1 344 -	8 250 +	379 +
a_5	1 048 +	589 -		1 306 -	215 -	
March 10						
a_0	95.4603 917 +	18.6124 290 +	0.9059 0121 +	190.6507 722 +	6.1765 042 -	0.9337 2326 +
a_1	12.5095 256 +	0.8873 199 -	0.0048 8244 -	12.1994 448 +	3.9458 297 -	0.0080 3559 +
a_2	1254 576 -	4083 799 -	14 1289 +	1902 439 +	1080 324 +	1 3680 +
a_3	36 978 -	115 217 +	1382 -	192 633 +	327 271 +	3241 -
a_4	11 600 +	8 043 +	579 -	7 943 -	7 271 +	342 +
a_5	456 +	407 -		1 811 -	629 -	
March 11						
a_0	107.8419 674 +	17.3290 145 +	0.9024 1205 +	203.0587 487 +	9.9809 102 -	0.9418 6666 +
a_1	12.2523 844 +	1.6665 005 -	0.0021 2129 -	12.6336 391 +	3.6289 902 -	0.0082 2566 +
a_2	1291 378 -	3693 954 -	13 3717 +	2414 516 +	2099 492 +	5963 +
a_3	13 692 +	143 447 +	3692 -	142 606 +	349 713 +	1838 -
a_4	13 744 +	6 015 +	421 -	17 261 -	4 217 +	193 +
a_5	47 -	191 -		2 077 -	1 238 -	
March 12						
a_0	119.9679 529 +	15.3080 458 +	0.9015 8680 +	215.9461 662 +	13.3646 820 -	0.9501 3551 +
a_1	12.0036 901 +	2.3599 461 -	0.0004 2546 +	13.1513 820 +	3.1031 108 -	0.0082 9753 +
a_2	1168 339 -	3229 423 -	12 0161 +	2717 912 +	3161 559 +	1534 +
a_3	68 020 +	165 715 +	5375 -	53 127 +	353 796 +	1041 -
a_4	13 363 +	5 089 +	276 -	28 176 -	1 960 -	51 -
a_5	353 -	10 +		1 518 -	1 954 -	

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	229.3716 827+	16.1166 486-	0.9584 3746+	344.2580 982+	2.7572 789-	0.9968 8671+
a_1	13.6988 756+	2.3664 218-	0.0082 9495+	13.7505 100+	4.6720 635+	0.0040 4375-
a_2	2692 965+	4191 622+	1983-	1005 127-	627 001+	16 9036-
a_3	73 679-	326 136+	1240-	137 051+	513 097-	667+
a_4	36 380-	11 901-	341-	5 047+	2 301+	1858+
a_5	337+	2 455-		2 459-	2 106+	
March 22						
a_0	243.3288 825+	18.0327 303-	0.9666 9677+	357.9220 594+	1.9266 157+	0.9911 7785+
a_1	14.2009 841+	1.4362 443-	0.0082 0444+	13.5913 896+	4.6455 077+	0.0073 3006-
a_2	2256 984+	5074 023+	7829-	588 325-	877 414-	15 5984-
a_3	214 298-	254 096+	2628-	133 060+	483 059-	8247+
a_4	34 840-	24 531-	602-	7 442-	12 895+	1540+
a_5	3 024+	2 266-		1 775-	1 700+	
March 23						
a_0	257.7309 536+	18.9388 423-	0.9747 9062+	11.4670 010+	6.4375 356+	0.9823 8580+
a_1	14.5756 693+	0.3561 548-	0.0079 4492+	13.5097 799+	4.3311 142+	0.0101 4071-
a_2	1435 375+	5666 424+	1 9365-	251 575-	2232 222-	12 2211-
a_3	322 386-	133 931+	5091-	86 124+	414 826-	1 4477+
a_4	19 033-	36 180-	739-	16 487-	21 443+	870+
a_5	4 864+	1 191-		811-	1 098+	
March 24						
a_0	272.4165 050+	18.7186 987-	0.9824 8359+	24.9585 059+	10.5061 991+	0.9711 7645+
a_1	14.7608 469+	0.8022 435+	0.0073 7530+	13.4783 029+	3.7693 474+	0.0121 1582-
a_2	402 792+	5839 220+	3 9043-	100 268-	3337 061-	7 3790-
a_3	350 179-	21 832-	8131-	12 762+	318 483-	1 7939+
a_4	6 275+	42 167-	656-	20 676-	26 942+	120+
a_5	4 327+	334+		395+	387+	
March 25						
a_0	287.1836 734+	17.3388 998-	0.9893 8059+	38.4260 301+	13.9127 251+	0.9585 0331+
a_1	14.7410 222+	1.9468 394+	0.0063 2421+	13.4540 064+	3.0173 600+	0.0130 4868-
a_2	566 782-	5524 091+	6 7257-	182 093-	4126 992-	1 9437-
a_3	283 236-	186 447-	1 0850-	65 308-	207 256-	1 8347+
a_4	28 304+	40 274-	287-	18 679-	28 840+	477-
a_5	1 803+	1 576+		1 566+	333-	
March 26						
a_0	301.8427 045+	14.8621 657-	0.9949 2086+	51.8535 851+	16.4995 110+	0.9454 3896+
a_1	14.5549 151+	2.9804 026+	0.0046 4203+	13.3913 074+	2.1411 536+	0.0129 0614-
a_2	1228 700-	4738 894+	10 1335-	474 407-	4579 065-	3 2631+
a_3	153 527-	331 421-	1 2068-	123 968-	95 572-	1 6355+
a_4	36 944+	32 168-	347+	10 609-	27 092+	825-
a_5	880-	2 194+		2 241+	936-	
March 27						
a_0	316.2630 031+	11.4440 132-	0.9984 3234+	65.1842 181+	18.1758 165+	0.9330 1444+
a_1	14.2774 525+	3.8169 851+	0.0022 6717+	13.2561 124+	1.2070 373+	0.0117 9588-
a_2	1476 521-	3573 574+	13 5229-	887 523-	4712 612-	7 6710+
a_3	15 463-	438 054-	1 0677-	144 072-	3 234+	1 2996+
a_4	31 919+	21 095-	1092+	875+	22 277+	945-
a_5	2 434-	2 354+		2 103+	1 282-	
March 28						
a_0	330.3942 057+	7.3153 503-	0.9992 5137+	78.3374 688+	18.9140 156+	0.9221 0616+
a_1	13.9890 596+	4.3930 225+	0.0007 1401-	13.0367 867+	0.2737 553+	0.0099 0964-
a_2	1355 812-	2156 385+	16 0531-	1293 454-	4582 082-	11 0032+
a_3	87 644+	498 920-	6214-	120 005-	79 525+	9182+
a_4	19 292+	9 285-	1681+	11 500+	15 725+	921-
a_5	2 795-	2 308+		1 292+	1 284-	

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	91.2341 889+	18.7389 593+	0.9133 7945+	186.7655 524+	4.9158 950-	0.9360 7350+
a_1	12.7473 393+	0.6131 555-	0.0074 7038-	12.2067 955+	4.0270 708-	0.0097 5473+
a_2	1571 574-	4262 015-	13 2079+	2073 551+	671 460+	1 4976+
a_3	61 647-	129 755+	5489+	211 678+	331 806+	1 0859-
a_4	17 856+	9 207+	834-	10 072-	12 893+	277+
a_5	309+	980-		2 133-	697-	
April 7						
a_0	103.8200 227+	17.7134 004+	0.9072 7641+	199.1996 503+	8.8414 197-	0.9458 7218+
a_1	12.4218 267+	1.4234 388-	0.0046 9748-	12.6799 131+	3.7884 299-	0.0097 3959+
a_2	1646 328-	3827 313-	14 3572+	2626 758+	1737 276+	1 5854-
a_3	12 455+	157 048+	2157+	149 904+	375 789+	9731-
a_4	19 178+	4 280+	740-	21 095-	9 515+	549+
a_5	405-	513-		2 469-	1 744-	
April 8						
a_0	116.0803 395+	15.9233 118+	0.9040 2882+	212.1548 732+	12.4177 660-	0.9553 6140+
a_1	12.1037 663+	2.1403 309-	0.0017 9094-	13.2405 642+	3.3253 050-	0.0091 5256+
a_2	1497 980-	3335 612-	14 5625+	2925 099+	2904 283+	4 1701-
a_3	84 934+	169 314+	797-	41 338+	395 800+	7487-
a_4	16 941+	1 749+	663-	34 130-	708+	717+
a_5	719-	36-		1 700-	2 792-	
April 9						
a_0	128.0444 232+	13.4665 224+	0.9036 7952+	225.6884 981+	15.4132 710-	0.9640 2925+
a_1	11.8360 670+	2.7559 772-	0.0010 7112+	13.8234 863+	2.6268 214-	0.0081 2262+
a_2	1148 755-	2817 528-	13 9274+	2827 217+	4067 959+	5 9865-
a_3	145 482+	176 167+	3448-	110 732-	370 468+	4560-
a_4	13 210+	1 631+	601-	43 368-	13 640-	712+
a_5	749-	345+		777+	3 235-	
April 10						
a_0	139.7814 091+	10.4466 068+	0.9061 0289+	239.7793 738+	17.5979 371-	0.9715 1473+
a_1	11.6548 706+	3.2658 071-	0.0037 2910+	14.3387 553+	1.7091 618-	0.0068 1700+
a_2	640 549-	2275 771-	12 5344+	2242 571+	5065 093+	6 9333-
a_3	190 866+	186 283+	5860-	274 516-	284 020+	1661-
a_4	9 409+	3 440+	533-	39 507-	30 376-	524+
a_5	693-	583+		4 165+	2 443-	
April 11						
a_0	151.3921 829+	6.9722 532+	0.9110 2150+	254.3114 006+	18.7754 695-	0.9776 2703+
a_1	11.5874 373+	3.6634 090-	0.0060 3885+	14.6911 970+	0.6243 068-	0.0054 0150+
a_2	18 440-	1690 439-	10 4599+	1223 779+	5710 426+	7 1265-
a_3	221 544+	205 905+	8009-	389 833-	139 196+	460+
a_4	5 950+	6 449+	428-	17 619-	42 895-	214+
a_5	732-	647+		6 071+	498-	
April 12						
a_0	163.0004 524+	3.1611 004+	0.9180 2198+	269.0848 374+	18.8191 535-	0.9823 2263+
a_1	11.6522 263+	3.9368 227-	0.0078 7345+	14.8149 898+	0.5421 323+	0.0039 9858+
a_2	674 571+	1027 545-	7 8060+	9 448+	5865 699+	6 8698-
a_3	237 867+	238 081+	9744-	400 325-	36 211-	1304+
a_4	2 346+	9 795+	258-	13 963+	45 140-	111-
a_5	984-	494+		4 783+	1 525+	
April 13						
a_0	174.7440 587+	0.8536 397-	0.9265 7601+	283.8626 141+	17.6984 339-	0.9856 4616+
a_1	11.8589 464+	4.0667 428-	0.0091 3201+	14.7047 549+	1.6871 163+	0.0026 5928+
a_2	1392 402+	249 563-	4 7358+	1059 894-	5501 551+	6 5520-
a_3	237 097+	281 962+	1 0796-	298 553-	200 955-	814+
a_4	2 537-	12 413+	14-	38 119+	36 978-	338-
a_5	1 490-	63+		1 410+	2 495+	
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	298.4354 773+	15.4847 063-	0.9876 5500+	46.7116 711+	15.6120 443+	0.9491 1768+
a_1	14.4191 595+	2.7135 961+	0.0013 5976+	13.4328 558+	2.4886 559+	0.0103 6626-
a_2	1712 843-	4701 820+	6 5119-	122 300+	4356 245-	2 0403-
a_3	133 687-	324 021-	602-	140 679-	175 296-	1 1743+
a_4	44 525+	24 141-	386-	21 473-	27 990+	169+
a_5	1 558-	2 278+		2 608+	79+	
April 23						
a_0	312.6742 805+	12.3355 166-	0.9883 5369+	60.1408 025+	17.6503 528+	0.9386 6652+
a_1	14.0535 143+	3.5482 358+	0.0000 2384+	13.4078 275+	1.5760 522+	0.0104 1526-
a_2	1862 451-	3607 695+	6 9192-	402 447-	4713 415-	1 5738+
a_3	28 028+	398 206-	2209-	200 205-	63 100-	1 2398+
a_4	36 003+	12 725-	228-	8 009-	28 337+	170-
a_5	2 901-	1 561+		3 156+	877-	
April 24						
a_0	326.5476 628+	8.4674 483-	0.9876 6124+	73.4878 795+	18.7514 995+	0.9285 3092+
a_1	13.7023 836+	4.1460 031+	0.0014 3544-	13.2656 503+	0.6253 346+	0.0097 3537-
a_2	1591 421-	2352 312+	7 7091-	1019 512-	4741 497-	5 1837+
a_3	142 952+	433 809-	3163-	201 074-	41 100+	1 1686+
a_4	21 094+	5 094-	95+	8 142+	23 742+	417-
a_5	2 991-	1 019+		2 468+	1 526-	
April 25						
a_0	340.1070 098+	4.1300 024-	0.9854 2421+	86.6325 322+	18.9090 161+	0.9194 2661+
a_1	13.4339 276+	4.4847 947+	0.0030 6835-	13.0059 146+	0.3019 009-	0.0083 6475-
a_2	1065 943-	1030 482+	8 5890-	1549 209-	4491 037-	8 4347+
a_3	197 627+	444 072-	2782-	144 623-	120 759+	9988+
a_4	5 990+	190-	483+	20 527+	15 875+	562-
a_5	2 602-	897+		1 048+	1 610-	
April 26						
a_0	353.4544 446+	0.4135 040+	0.9814 7398+	99.4712 212+	18.1715 140+	0.9119 9958+
a_1	13.2811 227+	4.5580 425+	0.0048 5026-	12.6614 195+	1.1583 349-	0.0064 0068-
a_2	463 167-	293 916-	9 1241-	1849 476-	4049 628-	11 0915+
a_3	195 847+	435 754-	806-	52 766-	168 392+	7721+
a_4	7 119-	4 195+	800+	25 519+	7 681+	631-
a_5	2 116-	1 089+		243-	1 200-	
April 27						
a_0	6.7079 117+	4.8991 080+	0.9757 1125+	111.9449 441+	16.6257 035+	0.9067 7894+
a_1	13.2433 385+	4.3707 560+	0.0066 6723-	12.2857 796+	1.9152 698-	0.0039 7603-
a_2	60 461+	1565 117-	8 8821-	1857 150-	3510 371-	13 0277+
a_3	146 603+	407 950-	2465+	46 477+	187 476+	5189+
a_4	17 895-	9 658+	928+	23 971+	1 654+	663-
a_5	1 453-	1 331+		929-	566-	
April 28						
a_0	19.9700 218+	9.0736 562+	0.9681 8973+	124.0519 606+	14.3782 530+	0.9041 5094+
a_1	13.2915 286+	3.9398 761+	0.0083 3254-	11.9374 165+	2.5607 219-	0.0012 4134-
a_2	378 325+	2717 699-	7 5889-	1583 227-	2943 669-	14 1856+
a_3	61 142+	356 013-	6249+	132 990+	188 791+	2539+
a_4	25 442-	16 434+	825+	19 089+	1 124-	692-
a_5	364-	1 337+		1 052-	54+	
April 29						
a_0	33.3029 165+	12.7079 383+	0.9591 6905+	135.8461 572+	11.5419 363+	0.9043 4662+
a_1	13.3751 788+	3.2967 741+	0.0096 2982-	11.6677 781+	3.0932 405-	0.0016 4428+
a_2	405 419+	3673 740-	5 2282-	1080 264-	2383 487-	14 5310+
a_3	43 393-	277 154-	9592+	198 907+	185 117+	222-
a_4	27 431-	23 299+	536+	13 725+	775-	734-
a_5	1 164+	915+		906-	541+	

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						
a_0	147.4270 817+	8.2288 353+	0.9074 3444+	249.6876 047+	18.5564 121-	0.9868 1226+
a_1	11.5164 349+	3.5144 419-	0.0045 1446+	14.9688 466+	1.0186 784-	0.0070 4140+
a_2	410 257-	1827 359-	14 0224+	1892 716+	5821 208+	13 6184-
a_3	244 820+	187 612+	3158-	462 507-	229 530+	6164-
a_4	9 194+	2 021+	787-	38 484-	49 251-	1517+
a_5	787-	863+		8 087+	1 944-	
May 9						
a_0	158.9278 136+	4.5507 072+	0.9133 1169+	264.7964 326+	18.9751 362-	0.9924 4535+
a_1	11.5111 133+	3.8223 899-	0.0071 9269+	15.1972 872+	0.1937 537+	0.0041 9355+
a_2	371 498+	1243 746-	12 6015+	355 463+	6194 853+	14 5644-
a_3	273 657+	204 392+	6321-	535 734-	15 126+	20+
a_4	5 332+	6 447+	823-	4 158+	58 922-	1289+
a_5	911-	988+		7 817+	1 687+	
May 10						
a_0	170.5038 845+	0.6251 254+	0.9216 9309+	279.9768 901+	18.1661 081-	0.9951 9554+
a_1	11.6691 868+	4.0067 486-	0.0094 9042+	15.1132 260+	1.4145 393+	0.0013 3286+
a_2	1215 360+	581 976-	10 2125+	1148 502-	5903 699+	13 8008-
a_3	285 584+	239 960+	9647-	443 516-	202 384-	5237+
a_4	894+	11 554+	788-	44 174+	49 553-	775+
a_5	1 416-	822+		3 229+	3 978+	
May 11						
a_0	182.3231 136+	3.4145 872-	0.9321 0041+	294.9356 545+	16.1859 950-	0.9952 0843+
a_1	11.9975 824+	4.0461 238-	0.0112 1195+	14.7697 496+	2.5167 312+	0.0012 3921-
a_2	2063 312+	215 490+	6 8508+	2181 849-	5039 123+	11 7831-
a_3	274 484+	294 022+	1 2855-	237 264-	360 836-	8326+
a_4	6 125-	15 917+	617-	59 474+	28 814-	182+
a_5	2 314-	189+		1 532-	3 899+	
May 12						
a_0	194.5536 316+	7.4081 492-	0.9438 6272+	309.4692 871+	13.2039 265-	0.9928 7599+
a_1	12.4889 817+	3.9083 592-	0.0121 7176+	14.2852 220+	3.4067 272+	0.0033 3881-
a_2	2826 833+	1194 997+	2 6356+	2552 300-	3822 751+	9 1908-
a_3	226 321+	358 836+	1 5385-	15 999-	437 922-	8991+
a_4	17 886-	17 160+	257-	50 597+	9 090-	291-
a_5	3 279-	1 080-		3 730-	2 435+	
May 13						
a_0	207.3458 122+	11.1595 170-	0.9561 4163+	323.5023 659+	9.4593 820-	0.9887 0510+
a_1	13.1134 508+	3.5553 868-	0.0122 2704+	13.7883 360+	4.0374 803+	0.0049 1892-
a_2	3365 577+	2363 690+	2 1172-	2334 123-	2478 755+	6 6757-
a_3	122 016+	415 635+	1 6457-	149 030+	450 783-	7746+
a_4	34 994-	11 899+	280+	31 288+	2 868+	535-
a_5	3 320-	2 889-		3 750-	961+	
May 14						
a_0	220.8041 909+	14.4360 702-	0.9679 9519+	337.0749 464+	5.2187 216-	0.9831 9072+
a_1	13.8075 163+	2.9546 448-	0.0113 2109+	13.3768 617+	4.3996 233+	0.0060 4313-
a_2	3488 274+	3653 052+	6 8677-	1736 834-	1153 176+	4 6733-
a_3	49 805-	433 457+	1 5330-	237 095+	430 175-	5535+
a_4	52 836-	2 887-	883+	12 396+	7 345+	541-
a_5	1 006-	4 476-		3 003-	151+	
May 15						
a_0	234.9501 699+	16.9828 005-	0.9784 8505+	350.3027 734+	0.7460 486-	0.9767 3020+
a_1	14.4685 976+	2.0973 901-	0.0095 2304+	13.1040 808+	4.5042 193+	0.0068 3341-
a_2	3011 666+	4891 207+	10 9221-	981 214-	91 813-	3 3323-
a_3	268 476-	377 205+	1 1721-	257 032+	399 362-	3326+
a_4	58 624-	26 197-	1359+	2 595-	7 831+	369-
a_5	3 807+	4 430-		2 330-	38+	

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	3-3339 435 +	3-7098 401 +	0-9695 9314 +	107-9026 796 +	17-3193 087 +	0-9080 6872 +
a_1	12-9827 451 +	4-3691 996 +	0-0074 1484 -	12-4719 330 +	1-6684 930 -	0-0048 4446 -
a_2	249 007 -	1242 563 -	2 5476 -	1917 536 -	3740 750 -	8 9652 +
a_3	223 658 +	367 467 -	1838 +	35 097 -	192 698 +	7292 +
a_4	14 301 -	7 867 +	107 -	27 818 +	6 235 +	259 -
a_5	1 822 -	387 +		525 -	1 193 -	
May 25						
a_0	16-3125 413 +	7-9188 621 +	0-9619 4086 +	120-1820 786 +	15-2965 148 +	0-9041 9111 +
a_1	12-9934 102 +	4-0137 879 +	0-0078 7346 -	12-0887 608 +	2-3569 350 -	0-0028 4303 -
a_2	317 896 +	2293 894 -	2 0520 -	1861 227 -	3137 173 -	10 9933 +
a_3	148 644 +	331 842 -	1426 +	70 600 +	206 084 +	6250 +
a_4	23 638 -	9 791 +	153 +	24 857 +	248 +	388 -
a_5	1 150 -	883 +		1 078 -	542 -	
May 26						
a_0	29-3501 267 +	11-6711 440 +	0-9538 7799 +	132-0941 546 +	12-6464 414 +	0-9025 0603 +
a_1	13-0915 537 +	3-4598 151 +	0-0082 3493 -	11-7470 992 +	2-9227 159 -	0-0004 7238 -
a_2	610 445 +	3221 821 -	1 5266 -	1511 107 -	2522 850 -	12 6319 +
a_3	43 294 +	283 678 -	2071 +	159 233 +	202 019 +	4700 +
a_4	29 693 -	14 348 +	337 +	19 250 +	2 410 -	509 -
a_5	43 +	1 176 +		1 072 -	92 +	
May 27						
a_0	42-5040 893 +	14-7819 615 +	0-9455 1449 +	143-7078 841 +	9-4914 106 +	0-9033 3875 +
a_1	13-2147 772 +	2-7366 741 +	0-0084 6460 -	11-4998 118 +	3-3675 976 -	0-0021 7465 +
a_2	562 569 +	3974 982 -	7008 -	928 649 -	1930 319 -	13 7324 +
a_3	74 108 -	214 659 -	3459 +	225 623 +	193 596 +	2671 +
a_4	29 623 -	20 458 +	406 +	13 813 +	1 873 -	642 -
a_5	1 702 +	966 +		866 -	601 +	
May 28						
a_0	55-7649 205 +	17-1018 139 +	0-9370 1846 +	155-1386 880 +	5-9500 136 +	0-9069 0693 +
a_1	13-2940 623 +	1-8859 451 +	0-0084 8473 -	11-3868 612 +	3-6960 309 -	0-0049 7558 +
a_2	179 554 +	4486 531 -	5793 +	177 563 -	1354 745 -	14 1438 +
a_3	174 799 -	123 615 -	5118 +	272 272 +	192 323 +	112 +
a_4	20 877 -	25 465 +	360 +	9 521 +	1 213 +	797 -
a_5	3 119 +	198 +		769 -	961 +	
May 29						
a_0	69-0576 825 +	18-5293 108 +	0-9286 4644 +	166-5358 954 +	2-1379 579 +	0-9132 9004 +
a_1	13-2707 426 +	0-9618 387 +	0-0082 0093 -	11-4364 540 +	3-9083 171 -	0-0077 7581 +
a_2	438 850 -	4702 602 -	2 3266 +	688 702 +	760 870 -	13 6937 +
a_3	226 973 -	20 341 -	6578 +	302 525 +	206 885 +	3076 -
a_4	4 778 -	26 439 +	230 +	5 799 +	6 125 +	970 -
a_5	3 404 +	799 -		1 009 -	1 137 +	
May 30						
a_0	82-2617 054 +	19-0214 191 +	0-9207 4625 +	178-0719 511 +	1-8250 314 -	0-9223 9475 +
a_1	13-1146 703 +	0-0253 911 +	0-0075 2907 -	11-6667 661 +	3-9954 070 -	0-0103 8346 +
a_2	1114 353 -	4613 015 -	4 4326 +	1620 995 +	92 059 -	12 1844 +
a_3	212 634 -	77 016 +	7503 +	315 191 +	242 676 +	6974 -
a_4	12 607 +	22 231 +	60 +	916 +	12 005 +	1119 -
a_5	2 366 +	1 507 -		1 753 -	1 000 +	
May 31						
a_0	95-2451 744 +	18-5952 826 +	0-9137 3607 +	189-9322 520 +	5-8040 763 -	0-9339 1573 +
a_1	12-8342 337 +	0-8659 686 -	0-0064 1506 -	12-0850 108 +	3-9357 150 -	0-0125 6634 +
a_2	1652 967 -	4263 690 -	6 7142 +	2554 538 +	718 049 +	9 4197 +
a_3	139 462 -	150 804 +	7739 +	300 612 +	300 268 +	1 1503 -
a_4	24 391 +	14 445 +	110 -	7 764 -	17 335 +	1162 -
a_5	753 +	1 612 -		3 007 -	283 +	

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	202.3017 008+	9.6361 978-	0.9472 9740+	319.7526 493+	10.7061 711-	1.0027 6679+
a_1	12.6814 915+	3.6949 510-	0.0140 5869+	14.3172 698+	3.9824 891+	0.0067 0158-
a_2	3379 668+	1725 759+	5 2780+	2948 520-	2957 200+	14 1878-
a_3	238 811+	371 502+	1 6243-	53 631+	526 626-	1 6903+
a_4	23 085-	19 164+	976-	49 833+	2 711+	64+
a_5	4 247-	1 319-		4 757-	2 468+	
June 10			June 18			
a_0	215.3423 070+	13.1196 383-	0.9617 1170+	333.7849 378+	6.4801 067-	0.9948 1608+
a_1	13.4177 116+	3.2313 454-	0.0145 8791+	13.7612 106+	4.4182 576+	0.0090 2959-
a_2	3914 951+	2942 089+	1639-	2536 279-	1418 210+	9 1008-
a_3	104 231+	433 594+	2 0266-	205 824+	492 203-	1 7041+
a_4	45 433-	12 773+	450-	25 579+	14 672+	644-
a_5	3 951-	3 722-		3 949-	560+	
June 11			June 19			
a_0	229.1569 984+	16.0125 102-	0.9760 7607+	347.3152 660+	1.9677 253-	0.9850 4038+
a_1	14.2118 266+	2.5096 031-	0.0139 2910+	13.3239 604+	4.5603 861+	0.0103 6434-
a_2	3915 275+	4282 214+	6 4867-	1804 832-	35 165+	4 3853-
a_3	114 822-	446 352+	2 2161-	269 293+	428 464-	1 4346+
a_4	66 904-	6 387-	423+	5 846+	17 051+	973-
a_5	195-	5 742-		2 820-	370-	
June 12			June 20			
a_0	243.7421 603+	18.0504 696-	0.9891 3913+	0.4859 750+	2.5549 989+	0.9743 7123+
a_1	14.9335 834+	1.5246 797-	0.0119 8387+	13.0447 110+	4.4455 151+	0.0108 5000-
a_2	3167 362+	5525 324+	12 8495-	990 080-	1151 670-	6658-
a_3	380 649-	363 714+	2 0465-	264 946+	364 023-	1 0368+
a_4	68 366-	36 519-	1451+	8 182-	14 903+	979-
a_5	6 443+	5 231-		2 018-	462-	
June 13			June 21			
a_0	258.9482 227+	18.9904 206-	0.9996 4792+	13.4571 528+	6.8503 888+	0.9635 4854+
a_1	15.4287 406+	0.3277 194-	0.0088 5814+	12.9218 981+	4.1117 050+	0.0107 1132-
a_2	1679 954+	6344 881+	18 0939-	264 528-	2158 961-	1 8631+
a_3	587 332-	167 545+	1 4521-	212 400+	308 802-	6406+
a_4	33 913-	63 800-	2254+	18 328-	12 450+	782-
a_5	10 726+	1 313-		1 419-	61-	
June 14			June 22			
a_0	274.4839 069+	18.6734 087-	1.0065 7400+	26.3718 633+	10.7165 563+	0.9530 7978+
a_1	15.5803 268+	0.9653 491+	0.0048 9402+	12.9246 727+	3.5922 218+	0.0101 7779-
a_2	177 877-	6451 647+	21 0913-	248 472+	3011 286-	3 3246+
a_3	617 176-	98 076-	5276-	125 364+	259 317-	3265+
a_4	22 474+	69 914-	2464+	25 642-	12 144+	496-
a_5	8 118+	3 509+		627-	472+	
June 15			June 23			
a_0	289.9877 876+	17.0793 430-	1.0093 3077+	39.3312 928+	13.9829 794+	0.9432 6214+
a_1	15.3726 396+	2.2000 471+	0.0006 1616+	13.0014 078+	2.9172 633+	0.0094 3475-
a_2	1813 359-	5773 231+	21 2103-	464 402+	3711 640-	4 0155+
a_3	449 862-	341 350-	4782+	17 249+	205 847-	1289+
a_4	63 299+	50 919-	1979+	29 032-	14 635+	205-
a_5	1 407+	5 741+		609+	792+	
June 16			June 24			
a_0	305.1405 756+	14.3406 255-	1.0078 9351+	52.3780 234+	16.5100 366+	0.9342 3979+
a_1	14.9010 266+	3.2347 903+	0.0034 0323-	13.0881 561+	2.1194 308+	0.0086 0115-
a_2	2769 323-	4501 220+	18 6170-	348 030+	4233 426-	4 2869+
a_3	185 428-	488 121-	1 2778+	91 954-	139 476-	491+
a_4	68 733+	21 230-	1043+	26 020-	18 799+	39+
a_5	3 510-	4 771+		2 062+	644+	

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	65-4893 913+	18-1941 216+	0-9260 7263+	163-1720 646+	3-5154 028+	0-9057 4750+
a_1	13-1207 997+	1-2387 440+	0-0077 2748-	11-3015 949+	3-8089 117-	0-0051 5055+
a_2	63 305-	4532 595-	4 4625+	89 701+	857 807-	12 8514+
a_3	174 880-	58 192-	673+	274 127+	202 116+	2471+
a_4	15 403-	22 166+	204+	9 053+	1 200+	604-
a_5	3 036+	24+		719-	887+	
June 26						
a_0	78-5851 359+	18-9760 059+	0-9188 0017+	174-5108 758+	0-3588 692-	0-9122 0185+
a_1	13-0510 316+	0-3236 451+	0-0068 0661-	11-4050 344+	3-9189 144-	0-0077 7081+
a_2	649 951-	4573 938-	4 7894+	959 217+	235 366-	13 2226+
a_3	206 227-	30 262+	1518+	302 935+	215 885+	67+
a_4	206+	22 259+	282+	5 587+	5 743+	854-
a_5	2 905+	762-		1 074-	1 055+	
June 27						
a_0	91-5508 608+	18-8474 330+	0-9124 9051+	186-0425 767+	4-2790 517-	0-9212 8705+
a_1	12-8607 070+	0-5735 421-	0-0057 9187-	11-6894 552+	3-8983 971-	0-0103 8318+
a_2	1238 326-	4357 244-	5 4141+	1890 820+	457 335+	12 7218+
a_3	177 016-	111 375+	2672+	314 033+	249 320+	3347-
a_4	14 948+	18 276+	278+	382+	11 216+	1127-
a_5	1 771+	1 290-		1 947-	909+	
June 28						
a_0	104-2717 055+	17-8510 026+	0-9072 6954+	197-9523 606+	8-1055 708-	0-9328 9767+
a_1	12-5668 003+	1-4049 132-	0-0046 1777-	12-1610 067+	3-7271 938-	0-0127 8205+
a_2	1662 004-	3926 391-	6 3803+	2815 739+	1281 737+	11 0343+
a_3	100 322-	171 548+	3801+	295 326+	302 829+	7880-
a_4	23 663+	11 635+	208+	9 299-	16 102+	1367-
a_5	383+	1 337-		3 290-	158+	
June 29						
a_0	116-6646 777+	16-0716 349+	0-9033 2989+	210-4232 149+	11-6726 820-	0-9466 9067+
a_1	12-2139 583+	2-1347 410-	0-0032 1935-	12-8073 863+	3-3734 800-	0-0146 9779+
a_2	1817 217-	3355 320-	7 6420+	3612 951+	2288 478+	7 8478+
a_3	2 389-	204 918+	4645+	224 616+	367 830+	1 3422-
a_4	25 244+	4 842+	94+	26 165-	17 322+	1453-
a_5	589-	978-		4 433-	1 524-	
June 30						
a_0	128-6991 410+	13-6222 401+	0-9009 2214+	223-6112 981+	14-7789 513-	0-9620 2449+
a_1	11-8596 010+	2-7428 811-	0-0015 4781-	13-5846 799+	2-7992 711-	0-0158 0646+
a_2	1678 855-	2721 294-	9 0877+	4085 284+	3480 694+	2 9569+
a_3	92 505+	214 813+	5029+	76 137+	420 460+	1 9374-
a_4	22 026+	67-	47-	49 613-	9 890+	1208-
a_5	949-	436-		3 668-	4 013-	
July 1						
a_0	140-4022 147+	10-6286 606+	0-9003 3291+	237-6067 920+	17-1875 192-	0-9779 2083+
a_1	11-5599 175+	3-2229 402-	0-0004 1870+	14-4029 039+	1-9750 467-	0-0157 6820+
a_2	1278 705-	2081 610-	10 5629+	3979 088+	4761 194+	3 5570-
a_3	171 145+	210 496+	4845+	156 414-	418 807+	2 4382-
a_4	17 130+	2 210-	208-	69 631-	10 823-	466-
a_5	889-	102+		805+	5 988-	
July 2						
a_0	151-8530 004+	7-2183 981+	0-9018 5427+	252-3850 807+	18-6462 470-	0-9930 8486+
a_1	11-3619 278+	3-5769 459-	0-0026 6832+	15-1243 549+	0-9044 882-	0-0143 0663+
a_2	671 398-	1462 350-	11 8860+	3100 096+	5892 574+	11 1130-
a_3	230 857+	202 940+	4022+	423 113-	316 142+	2 6373-
a_4	12 631+	1 636-	391-	65 653-	42 292-	770+
a_5	726-	553+		7 571+	5 167-	
July 3						
July 4						
July 5						
July 6						
July 7						
July 8						
July 9						
July 10						

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	267.7713 257+	18.9346 095-	1.0060 2418+	23.3587 918+	9.6115 574+	0.9631 4130+
a_1	15.5949 679+	0.3493 737+	0.0113 2370+	13.0809 932+	3.7899 703+	0.0137 7781-
a_2	1512 909+	6535 416+	18 5195-	410 546-	3002 204-	3 7632+
a_3	608 235-	97 752+	2 3256-	161 610+	258 114-	1 2045+
a_4	25 183-	69 231-	2173+	19 698-	17 977+	1284-
a_5	10 815+	832-		821-	402-	
July 12						
a_0	283.4553 243+	17.9289 253-	1.0152 8510+	36.4128 394+	13.0772 534+	0.9498 4743+
a_1	15.7104 093+	1.6576 798+	0.0070 0915+	13.0390 779+	3.1190 855+	0.0127 1517-
a_2	354 400-	6405 046+	24 1632-	52 154-	3672 706-	6 6152+
a_3	602 900-	184 653-	1 4326-	75 146+	189 991-	6878+
a_4	31 358+	72 823-	3143+	23 960-	15 980+	1006-
a_5	7 011+	4 206+		115+	20+	
July 13						
a_0	299.0738 404+	15.6560 678-	1.0197 6610+	49.4518 320+	15.8116 693+	0.9378 5250+
a_1	15.4747 000+	2.8562 698+	0.0018 7264+	13.0416 658+	2.3339 494+	0.0112 2603-
a_2	1904 893-	5456 433+	26 5740-	30 652+	4146 581-	8 0853+
a_3	411 166-	432 601-	1414-	18 922-	125 746-	2853+
a_4	66 150+	50 269-	3176+	23 466-	16 197+	676-
a_5	189+	6 401+		1 215+	240+	
July 14						
a_0	314.3235 684+	12.3018 016-	1.0189 9896+	62.4924 457+	17.7200 297+	0.9274 5677+
a_1	14.9969 210+	3.8008 677+	0.0033 5738-	13.0333 415+	1.4735 079+	0.0095 5043-
a_2	2739 856-	3921 169+	25 1203-	154 759-	4424 223-	8 5451+
a_3	147 122-	570 272-	1 1540+	100 122-	58 636-	160+
a_4	65 402+	17 247-	2258+	17 292-	17 529+	364-
a_5	4 072-	5 258+		2 142+	114+	
July 15						
a_0	329.0379 245+	8.1670 431-	1.0132 6752+	75.4987 841+	18.7470 159+	0.9187 5881+
a_1	14.4289 368+	4.4097 470+	0.0079 4490-	12.9665 075+	0.5781 404+	0.0078 5116-
a_2	2829 720-	2159 461+	20 3460-	537 431-	4493 814-	8 3828+
a_3	73 327+	588 114-	2 0616+	147 701-	12 387+	1278-
a_4	43 837+	9 141+	875+	6 336-	18 162+	101-
a_5	4 755-	2 716+		2 424+	283-	
July 16						
a_0	343.1951 302+	3.5989 757-	1.0035 0292+	88.3963 873+	18.8788 015+	0.9117 3213+
a_1	13.9001 492+	4.6702 168+	0.0113 6069-	12.8133 881+	0.3097 836-	0.0062 1698-
a_2	2394 332-	477 062+	13 6749-	994 283-	4350 520-	7 9449+
a_3	201 703+	525 626-	2 3994+	149 060-	81 954+	1662-
a_4	19 699+	22 321+	371-	5 997+	16 707+	100+
a_5	3 730-	567+		1 906+	712-	
July 17						
a_0	356.8776 133+	1.0686 736+	0.9910 1097+	101.0962 314+	18.1437 608+	0.9062 9403+
a_1	13.4878 093+	4.6171 521+	0.0133 9077-	12.5731 638+	1.1489 751-	0.0046 7384-
a_2	1708 339-	960 289-	6 7229-	1386 430-	4011 556-	7 5104+
a_3	243 894+	431 317-	2 2336+	106 534-	141 519+	1241-
a_4	1 082+	24 702+	1132-	15 545+	13 040+	232+
a_5	2 531-	533-		919+	943-	
July 18						
a_0	10.2188 331+	5.5490 818+	0.9771 5996+	113.5217 452+	16.6089 915+	0.9023 6114+
a_1	13.2184 778+	4.3053 129+	0.0141 1059-	12.2705 938+	1.9040 864-	0.0031 9968-
a_2	995 484-	2111 411-	7090-	1603 605-	3518 206-	7 2796+
a_3	223 445+	337 963-	1 7667+	35 667-	184 268+	289-
a_4	11 535-	21 722+	1385-	19 976+	8 224+	294+
a_5	1 616-	721-		7-	894-	

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	125-6304 087+	14-3722 443+	0-8998 8948+	219-2516 698+	13-5803 706-	0-9444 3798+
a_1	11-9471 589+	2-5496 045-	0-0017 4063-	12-9408 521+	2-9401 244-	0-0138 6071+
a_2	1590 862-	2925 009-	7 3695+	3501 723+	2904 725+	8 8127+
a_3	43 865+	208 366+	911+	165 550+	349 229+	8821-
a_4	19 711+	3 700+	288+	28 610-	11 150+	1480-
a_5	550-	631-		3 557-	1 799-	
July 28						
a_0	137-4247 840+	11-5512 824+	0-8988 9778+	232-5560 324+	16-1941 643-	0-9590 7695+
a_1	11-6497 553+	3-0709 314-	0-0002 2790-	13-6776 408+	2-2508 520-	0-0152 9938+
a_2	1346 535-	2284 017-	7 8131+	3790 961+	4001 334+	5 2772+
a_3	117 127+	217 063+	2081+	16 428+	374 717+	1 4838-
a_4	16 771+	545+	218+	47 553-	2 190+	1537-
a_5	705-	269-		2 073-	3 784-	
July 29						
a_0	148-9532 051+	8-2736 833+	0-8994 7417+	246-6094 494+	18-0075 707-	0-9747 4030+
a_1	11-4219 422+	3-4625 317-	0-0014 0588+	14-4207 084+	1-3391 873-	0-0158 4809+
a_2	901 602-	1632 237-	8 5643+	3534 035+	5100 697+	852-
a_3	177 196+	216 767+	2970+	192 105-	344 954+	2 1157-
a_4	13 147+	772-	93+	58 964-	17 365-	1175-
a_5	655-	102+		2 154+	5 043-	
July 30						
a_0	160-3039 560+	4-6695 376+	0-9017 6711+	261-3586 697+	18-8044 337-	0-9903 5656+
a_1	11-2997 122+	3-7242 065-	0-0032 1156+	15-0473 803+	0-2250 277-	0-0151 4922+
a_2	297 688-	985 541-	9 5057+	2625 534+	5980 773+	7 1079-
a_3	223 262+	214 888+	3357+	403 719-	225 704+	2 6055-
a_4	9 869+	223-	81-	47 672-	43 753-	226-
a_5	601-	427+		7 035+	3 967-	
July 31						
a_0	171-5971 523+	0-8682 862+	0-9059 6201+	276-6241 678+	18-4135 858-	1-0045 3218+
a_1	11-3108 001+	3-8567 239-	0-0052 1021+	15-4358 216+	1-0193 571+	0-0129 3686+
a_2	425 300+	337 935-	10 4577+	1198 986+	6355 582+	15 0153-
a_3	256 635+	218 408+	3050+	523 395-	13 066+	2 7074-
a_4	6 915+	1 974+	301-	10 388-	64 340-	1236+
a_5	727-	666+		8 277+	350-	
August 1						
a_0	182-9767 647+	3-0001 264-	0-9122 4547+	292-1273 375+	16-7638 329-	1-0157 0915+
a_1	11-4752 524+	3-8576 658-	0-0073 8121+	15-5185 796+	2-2684 866+	0-0091 7108+
a_2	1229 426+	335 815+	11 1836+	350 559-	6005 290+	22 3499-
a_3	276 740+	233 017+	1861+	484 258-	245 511-	2 2034-
a_4	3 370+	5 416+	570-	32 453+	65 686-	2744+
a_5	1 180-	746+		4 549+	3 692+	
August 2						
a_0	194-6028 527+	6-8002 929-	0-9207 5795+	307-5661 358+	13-9255 678-	1-0224 5234+
a_1	11-8049 167+	3-7180 587-	0-0096 5097+	15-3184 409+	3-3714 654+	0-0041 5001+
a_2	2068 069+	1074 853+	11 3902+	1563 192-	4911 720+	27 2882-
a_3	277 924+	262 003+	407-	311 877-	470 172-	1 0738-
a_4	2 448-	9 341+	882-	54 764+	46 125-	3586+
a_5	2 028-	514+		596-	5 710+	
August 3						
a_0	206-6419 211+	10-3836 806-	0-9315 3505+	322-7024 866+	10-1139 892-	1-0238 0200+
a_1	12-2999 131+	3-4204 951-	0-0118 8154+	14-9338 441+	4-1971 622+	0-0014 8615-
a_2	2866 848+	1922 087+	10 7288+	2176 390-	3281 677+	28 3672-
a_3	247 256+	304 036+	3938-	100 547-	597 879-	3983+
a_4	12 670-	12 202+	1211-	50 521+	16 702-	3291+
a_5	3 078-	273-		3 562-	5 149+	

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 12						
a_0	337.4133 330+	5.6496 024-	1.0195 5186+	85.3209 021+	18.7472 905+	0.9157 3129+
a_1	14.4868 294+	4.6700 258+	0.0069 0834-	12.8532 790+	0.0680 744-	0.0084 2611-
a_2	2210 660-	1439 357+	25 2360-	1125 916-	4373 574-	11 5500+
a_3	65 614+	614 341-	1 7368+	101 060-	80 495+	923-
a_4	31 826+	9 296+	2030+	4 182+	13 479+	442-
a_5	3 955-	3 143+		1 427+	568-	
August 13						
a_0	351.6884 449+	0.8958 311-	1.0103 1389+	98.0520 443+	18.2511 993+	0.9084 4654+
a_1	14.0751 359+	4.7788 824+	0.0113 5330-	12.6001 630+	0.9135 333-	0.0061 6147-
a_2	1862 466-	316 498-	18 8557-	1389 750-	4056 903-	11 0154+
a_3	153 833+	546 918-	2 5468+	70 465-	128 713+	2678-
a_4	11 718+	24 783+	462+	11 322+	10 603+	198-
a_5	3 085-	1 085+		747+	595-	
August 14						
a_0	5.5935 809+	3.7992 964+	0.9973 3431+	110.5073 927+	16.9458 478+	0.9033 5785+
a_1	13.7519 387+	4.5619 613+	0.0143 4202-	12.3059 753+	1.6823 563-	0.0040 4662-
a_2	1361 529-	1797 767-	10 9767-	1525 768-	3613 101-	10 0997+
a_3	170 489+	437 713-	2 7142+	18 108-	165 214+	3455-
a_4	3 775-	29 823+	779-	14 934+	7 597+	2+
a_5	1 975-	239-		89+	530-	
August 15						
a_0	19.2258 407+	8.1406 682+	0.9821 5824+	122.6604 827+	14.9194 095+	0.9002 8667+
a_1	13.5282 836+	4.0829 035+	0.0157 5438-	12.0014 073+	2.3526 385-	0.0021 3025-
a_2	892 473-	2934 401-	3 3220-	1489 628-	3077 181-	9 0691+
a_3	136 250+	321 108-	2 3832+	42 259+	190 378+	3433-
a_4	13 688-	28 320+	1426-	15 191+	4 939+	156+
a_5	935-	739-		338-	393-	
August 16						
a_0	32.6770 396+	11.9007 790+	0.9662 9572+	134.5186 384+	12.2785 452+	0.8990 3057+
a_1	13.3847 222+	3.4106 495+	0.0157 6094-	11.7220 667+	2.9091 821-	0.0004 1318-
a_2	575 223-	3735 217-	2 9676+	1275 116-	2480 341-	8 1360+
a_3	72 726+	215 212-	1 7992+	99 536+	206 300+	2792-
a_4	18 424-	24 477+	1553-	13 350+	2 981+	261+
a_5	52+	720-		515-	223-	
August 17						
a_0	46.0096 748+	14.9187 613+	0.9509 9592+	146.1244 306+	9.1422 347+	0.8994 0568+
a_1	13.2841 524+	2.6084 735+	0.0146 8984-	11.5019 867+	3.3422 795-	0.0011 4071+
a_2	467 087-	4241 195-	7 4386+	901 582-	1845 783-	7 4564+
a_3	81+	124 408-	1 1712+	147 754+	216 099+	1728-
a_4	18 178-	20 863+	1368-	10 698+	1 877+	307+
a_5	970+	548-		527-	53-	
August 18						
a_0	59.2454 057+	17.0927 060+	0.9371 5337+	157.5520 515+	5.6371 692+	0.9012 7782+
a_1	13.1839 735+	1.7309 834+	0.0129 0552-	11.3700 123+	3.6458 818-	0.0025 9244+
a_2	566 214-	4494 716-	10 1406+	399 418-	1186 743-	7 1216+
a_3	62 555-	46 384-	6220+	185 247+	223 187+	477-
a_4	13 237-	18 169+	1058-	8 021+	1 639+	287+
a_5	1 629+	456-		512-	106+	
August 19						
a_0	72.3653 414+	18.3713 507+	0.9253 1354+	168.9013 977+	1.8951 063+	0.9045 8052+
a_1	13.0474 842+	0.8251 647+	0.0107 3309-	11.3486 555+	3.8155 658-	0.0040 1395+
a_2	816 994-	4529 406-	11 3822+	199 320+	506 283-	7 1479+
a_3	99 111-	21 718+	1996+	212 129+	230 889+	695+
a_4	4 927-	15 928+	733-	5 458+	2 205+	194+
a_5	1 797+	489-		594-	237+	

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	180.2916 846+	1.9477 547-	0.9093 1815+	286.0055 652+	17.4190 486-	0.9972 6754+
a_1	11.4540 445+	3.8465 550-	0.0054 7216+	15.0333 852+	1.6934 139+	0.0124 5794+
a_2	862 515+	202 000+	7 4678+	601 960+	5850 532+	9 9346-
a_3	227 845+	242 128+	1495+	372 295-	89 046-	2 3744-
a_4	2 513+	3 455+	29+	8 553+	52 322-	163+
a_5	858-	299+		4 481+	320+	
August 29						
a_0	191.8549 306+	5.7495 214-	0.9155 5233+	301.0632 203+	15.1546 862-	1.0084 9622+
a_1	11.6954 770+	3.7319 848-	0.0070 1175+	15.0477 468+	2.8160 405+	0.0097 6518+
a_2	1552 546+	952 128+	7 9266+	418 759-	5272 691+	16 9177-
a_3	229 026+	258 893+	1633+	294 951-	293 788-	2 3149-
a_4	1 760-	5 060+	204-	31 304+	50 514-	1544+
a_5	1 342-	207+		1 443+	2 650+	
August 30						
a_0	203.7282 546+	9.3598 774-	0.9233 7103+	316.0428 707+	11.8455 419-	1.0163 5360+
a_1	12.0733 184+	3.4617 641-	0.0086 3793+	14.8887 491+	3.7635 631+	0.0057 4903+
a_2	2215 626+	1761 267+	8 2852+	1101 444-	4114 808+	22 8976-
a_3	208 220+	280 988+	834+	156 971-	468 529-	1 6827-
a_4	8 539-	6 259+	496-	38 021+	36 783-	2796+
a_5	1 943-	167-		1 495-	4 057+	
August 31						
a_0	216.0429 094+	12.6168 067-	0.9328 4085+	330.8094 309+	7.7206 236-	1.0196 7258+
a_1	12.5745 223+	3.0227 952-	0.0103 0014+	14.6358 282+	4.4332 811+	0.0007 7674+
a_2	2769 571+	2640 141+	8 2274+	1359 301-	2529 154+	26 2523-
a_3	154 453+	303 902+	1144-	20 709-	575 014-	5326-
a_4	18 549-	5 610+	827-	29 815+	16 010-	3307+
a_5	2 285-	939-		2 936-	4 205+	
September 1						
a_0	228.9077 507+	15.3447 305-	0.9439 4403+	345.3099 459+	3.0931 089-	1.0178 0389+
a_1	13.1662 112+	2.4018 231-	0.0118 7823+	14.3682 131+	4.7623 052+	0.0045 0106-
a_2	3098 692+	3576 134+	7 3783+	1271 992-	750 143+	25 8817-
a_3	57 785+	316 314+	4466-	69 134+	597 529-	8218+
a_4	30 579-	1 013+	1149-	14 589+	5 320+	2791+
a_5	1 681-	2 051-		2 961-	3 295+	
September 2						
a_0	242.3863 836+	17.3574 126-	0.9565 0393+	359.5590 359+	1.6853 192+	1.0108 2474+
a_1	13.7902 155+	1.5923 235-	0.0131 7393+	14.1389 105+	4.7368 491+	0.0093 1915-
a_2	3071 656+	4510 621+	5 3427+	1006 726-	977 568-	21 7805-
a_3	80 116-	299 282+	9115-	98 315+	544 115-	1 9528+
a_4	39 670-	9 414-	1368-	510-	21 849+	1528+
a_5	428+	3 075-		2 183-	1 870+	
September 3						
a_0	256.4718 289+	18.4699 948-	0.9701 0730+	13.6068 359+	6.2723 720+	0.9995 3809+
a_1	14.3648 612+	0.6057 184-	0.0139 1424+	13.9657 655+	4.3877 742+	0.0130 2832-
a_2	2597 538+	5321 153+	1 7890+	736 707-	2460 140-	15 0481-
a_3	232 805-	230 793+	1 4698-	75 094+	438 801-	2 5585+
a_4	37 645-	25 297-	1329-	11 575-	31 059+	132+
a_5	3 461+	3 240-		1 039-	521+	
September 4						
a_0	271.0697 450+	18.5233 723-	0.9840 4019+	27.5051 788+	10.3734 102+	0.9852 6213+
a_1	14.8012 021+	0.5160 128+	0.0137 7788+	13.8358 043+	3.7767 893+	0.0152 6518-
a_2	1707 980+	5829 266+	3 4024-	591 285-	3585 006-	7 3250-
a_3	347 700-	97 924+	2 0179-	19 101+	309 915-	2 5950+
a_4	19 484-	42 084-	850-	16 826-	33 466+	895-
a_5	5 383+	1 996-		211+	428-	

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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
September 13						
a_0	41.2821 033+	13.7640 112+	0.9695 1498+	143.0467 540+	9.9519 453+	0.9006 4500+
a_1	13.7166 545+	2.9799 856+	0.0159 8759-	11.5581 174+	3.2119 528-	0.0008 1426+
a_2	632 822-	4318 258-	929-	913 558-	2039 448-	9 8407+
a_3	45 502-	180 655-	2 2204+	160 937+	201 309+	5375-
a_4	15 699-	31 167+	1390-	7 985+	2 599+	13+
a_5	1 286+	963-		553-	199+	
September 14						
a_0	54.9294 841+	16.2971 260+	0.9537 2623+	154.5303 524+	6.5564 584+	0.9023 8970+
a_1	13.5708 036+	2.0741 228+	0.0153 9574-	11.4266 041+	3.5583 105-	0.0026 2166+
a_2	850 646-	4682 866-	5 7317+	388 384-	1417 925-	8 2403+
a_3	95 141-	65 767-	1 6534+	187 369+	213 701+	5317-
a_4	9 080-	26 242+	1455-	5 185+	3 650+	154+
a_5	1 851+	1 202-		520-	212+	
September 15						
a_0	68.4049 861+	17.8988 894+	0.9390 5446+	165.9373 214+	2.8781 116+	0.9057 8376+
a_1	13.3694 256+	1.1277 152+	0.0138 1158-	11.4069 516+	3.7762 196-	0.0041 1637+
a_2	1172 022-	4734 748-	9 8245+	199 621+	752 799-	6 7410+
a_3	113 035-	27 161+	1 0667+	202 876+	230 371+	4687-
a_4	370+	20 146+	1276-	2 577+	4 758+	264+
a_5	1 729+	1 225-		600-	148+	
September 16						
a_0	81.6461 160+	18.5577 380+	0.9263 1924+	177.3847 204+	0.9498 603-	0.9105 3002+
a_1	13.1021 228+	0.1963 599+	0.0115 7773-	11.5084 690+	3.8556 912-	0.0053 3457+
a_2	1491 614-	4544 652-	12 2669+	817 704+	31 650-	5 4954+
a_3	94 636-	95 580+	5552+	207 064+	250 795+	3608-
a_4	9 084+	13 950+	1011-	409-	5 545+	320+
a_5	1 081+	1 066-		828-	10+	
September 17						
a_0	94.5906 303+	18.3104 793+	0.9160 1361+	188.9955 424+	4.7830 814-	0.9163 8124+
a_1	12.7795 826+	0.6788 487-	0.0089 9823-	11.7335 507+	3.7845 601-	0.0063 3823+
a_2	1710 228-	4184 870-	13 3340+	1428 143+	754 114+	4 6046+
a_3	47 935-	140 892+	1515+	196 936+	272 935+	2298-
a_4	14 396+	8 585+	747-	4 569-	5 654+	299+
a_5	297+	772-		1 176-	227-	
September 18						
a_0	107.1958 661+	17.2280 141+	0.9083 5646+	200.8910 265+	8.4643 939-	0.9231 5995+
a_1	12.4290 631+	1.4705 065-	0.0063 1586-	12.0758 442+	3.5497 090-	0.0072 0219+
a_2	1764 718-	3718 397-	13 3473+	1979 748+	1604 587+	4 0910+
a_3	12 291+	167 712+	1463-	166 716+	293 061+	1071-
a_4	15 694+	4 735+	517-	10 591-	4 604+	185+
a_5	289-	428-		1 503-	600-	
September 19						
a_0	119.4512 270+	15.4028 699+	0.9033 5554+	213.1803 077+	11.8239 378-	0.9307 6237+
a_1	12.0859 396+	2.1621 916-	0.0037 1094-	12.5168 205+	3.1393 325-	0.0079 9566+
a_2	1636 603-	3191 120-	12 6046+	2401 265+	2505 403+	3 8741+
a_3	72 031+	182 545+	3521-	109 362+	305 167+	304-
a_4	14 063+	2 638+	320-	18 407-	1 672+	21-
a_5	567-	122-		1 494-	1 117-	
September 20						
a_0	131.3820 589+	12.9400 725+	0.9008 6665+	225.9462 007+	14.6821 578-	0.9391 4218+
a_1	11.7855 696+	2.7446 576-	0.0013 0843-	13.0217 728+	2.5465 920-	0.0087 6053+
a_2	1341 834-	2628 867-	11 3619+	2603 891+	3419 769+	3 7617+
a_3	122 600+	191 994+	4795-	21 275+	300 358+	370-
a_4	11 099+	2 084+	146-	26 320-	3 927-	299-
a_5	610-	92+		719-	1 679-	

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	239.2277 863+	16.8572 977-	0.9482 7219+	353.3803 785+	0.3794 599-	1.0074 8329+
a_1	13.5380 482+	1.7749 415-	0.0094 8981+	14.0473 060+	4.7047 641+	0.0025 1036-
a_2	2502 547+	4280 469+	3 4618+	348 483-	20 679+	21 2496-
a_3	90 206-	267 663+	1564-	103 981+	542 836-	612-
a_4	30 290-	12 475-	607-	2 424-	1 864+	2461+
a_5	967+	2 022-		2 432-	2 818+	
September 30						
a_0	253.0041 363+	18.1788 757-	0.9580 8645+	7.4027 487+	4.2735 566+	1.0028 6646+
a_1	13.9998 656+	0.8445 498-	0.0101 1092+	14.0066 193+	4.5482 029+	0.0066 8008-
a_2	2059 861+	4988 349+	2 6196+	75 461-	1568 445-	19 9708-
a_3	200 573-	197 651+	4020-	70 485+	507 478-	9439+
a_4	25 393-	22 841-	880-	14 895-	16 158+	1987+
a_5	2 933+	1 836-		1 502-	2 365+	
October 1						
a_0	267.1876 848+	18.5072 932-	0.9684 1034+	21.4072 307+	8.6160 196+	0.9943 0355+
a_1	14.3429 764+	0.2023 620+	0.0104 7902+	14.0059 650+	4.0899 155+	0.0103 1154-
a_2	1335 188+	5425 870+	8815+	31 547+	2970 258-	15 9756-
a_3	272 274-	88 378+	7601-	3 270-	419 745-	1 7475+
a_4	10 139-	32 223-	1019-	22 692-	28 124+	1045+
a_5	3 897+	1 054-		10-	1 417+	
October 2						
a_0	281.6363 284+	17.7568 342-	0.9788 9131+	35.4137 531+	12.3698 888+	0.9825 7965+
a_1	14.5262 238+	1.3006 341+	0.0103 8649+	14.0022 130+	3.3818 970+	0.0129 4062-
a_2	496 586+	5487 117+	2 0062-	114 534-	4046 576-	10 1368-
a_3	274 336-	50 444-	1 1777-	93 160-	293 780-	2 1614+
a_4	10 000+	37 526-	901-	22 775-	35 238+	42+
a_5	3 057+	18+		1 667+	189+	
October 3						
a_0	296.1860 829+	15.9162 836-	0.9889 5039+	49.3930 859+	15.3212 930+	0.9688 4191+
a_1	14.5487 662+	2.3679 240+	0.0095 9581+	13.9430 829+	2.4986 362+	0.0143 1794-
a_2	235 840-	5110 817+	6 0653-	513 953-	4714 617-	3 6506-
a_3	204 959-	199 809-	1 5508-	166 929-	151 611-	2 1669+
a_4	25 459+	37 359-	424-	14 101-	36 077+	704-
a_5	961+	987+		2 788+	985-	
October 4						
a_0	310.6934 111+	13.0608 961-	0.9977 8036+	63.2669 493+	17.3368 157+	0.9543 6855+
a_1	14.4507 721+	3.3156 952+	0.0079 0051+	13.7859 673+	1.5241 673+	0.0144 2621-
a_2	688 410-	4297 108+	10 9459-	1071 407-	4962 866-	2 4157+
a_3	94 702-	338 941-	1 7301-	195 479-	17 594-	1 8740+
a_4	29 948+	32 365-	417+	300+	30 927+	1086-
a_5	1 118-	1 727+		2 735+	1 756-	
October 5						
a_0	325.0687 550+	9.3524 480-	1.0044 1744+	76.9265 316+	18.3658 540+	0.9403 6044+
a_1	14.2960 979+	4.0613 525+	0.0052 0898+	13.5145 286+	0.5378 084+	0.0134 2439-
a_2	804 091-	3103 363+	15 8549-	1628 670-	4847 683-	7 3829+
a_3	13 182+	450 784-	1 5635-	167 551-	88 454+	1 4317+
a_4	23 892+	23 705-	1429+	14 192+	21 890+	1168-
a_5	2 377-	2 318+		1 635+	1 923-	
October 6						
a_0	339.2879 136+	5.0279 763-	1.0078 9888+	90.2630 209+	18.4297 362+	0.9278 0584+
a_1	14.1476 024+	4.5384 672+	0.0016 2620+	13.1450 222+	0.3973 970-	0.0115 6504-
a_2	645 024-	1631 965+	19 6631-	2029 850-	4470 233-	10 9799+
a_3	84 769+	522 180-	9783-	95 222-	156 995+	9608+
a_4	11 627+	12 038-	2236+	22 239+	12 107+	1074-
a_5	2 747-	2 746+		257+	1 552-	

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	103.1977 855 +	17.6020 710 +	0.9174 2412 +	197.4144 344 +	7.4328 513 -	0.9257 9109 +
a_1	12.7195 087 +	1.2402 774 -	0.0091 2379 -	12.0939 855 +	3.6711 440 -	0.0080 9306 +
a_2	2179 567 -	3942 129 -	13 2228 +	2112 048 +	1298 823 +	2 9363 +
a_3	4 255 -	190 270 +	5304 +	175 550 +	307 100 +	7858 -
a_4	23 208 +	4 307 +	913 -	13 950 -	8 686 +	333 +
a_5	703 -	911 -		1 779 -	882 -	
October 16						
a_0	115.7011 624 +	15.9869 473 +	0.9096 6653 +	209.7356 068 +	10.9426 226 -	0.9341 0254 +
a_1	12.2912 499 +	1.9703 544 -	0.0063 5662 -	12.5625 906 +	3.3162 168 -	0.0084 5794 +
a_2	2060 168 -	3354 582 -	14 2712 +	2537 141 +	2263 427 +	7830 +
a_3	81 333 +	198 749 +	1657 +	102 060 +	332 558 +	6497 -
a_4	19 402 +	196 -	752 -	23 245 -	4 305 +	464 +
a_5	1 057 -	274 -		1 661 -	1 689 -	
October 17						
a_0	127.7963 632 +	13.7009 626 +	0.9047 4609 +	222.5596 269 +	13.9989 793 -	0.9425 7845 +
a_1	11.9108 481 +	2.5818 609 -	0.0034 8272 -	13.0905 097 +	2.7628 869 -	0.0084 3823 +
a_2	1710 366 -	2762 237 -	14 3218 +	2687 152 +	3270 027 +	8868 -
a_3	148 402 +	195 498 +	1341 -	6 842 -	332 529 +	4597 -
a_4	13 942 +	1 476 -	613 -	32 091 -	4 284 -	485 +
a_5	995 -	207 +		505 -	2 327 -	
October 18						
a_0	139.5523 096 +	10.8623 008 +	0.9026 7602 +	235.9149 080 +	16.4022 718 -	0.9508 8687 +
a_1	11.6183 750 +	3.0761 458 -	0.0006 8310 -	13.6128 014 +	2.0120 004 -	0.0081 4236 +
a_2	1191 476 -	2182 518 -	13 5556 +	2468 968 +	4218 589 +	1 9789 -
a_3	194 339 +	191 823 +	3789 -	138 988 -	292 112 +	2615 -
a_4	8 901 +	350 -	493 -	34 993 -	16 246 -	367 +
a_5	796 -	494 +		1 741 +	2 361 -	
October 19						
a_0	151.0717 814 +	7.5870 998 +	0.9033 0566 +	249.7573 823 +	17.9650 628 -	0.9588 0886 +
a_1	11.4415 439 +	3.4549 952 -	0.0018 9463 +	14.0517 746 +	1.0883 271 -	0.0076 8286 +
a_2	563 024 -	1604 190 -	12 1270 +	1859 484 +	4973 787 +	2 5501 -
a_3	222 055 +	195 428 +	5764 -	260 287 -	204 005 +	1113 -
a_4	4 928 +	2 204 +	373 -	26 035 -	28 392 -	130 +
a_5	665 -	600 +		3 998 +	1 513 -	
October 20						
a_0	162.4796 547 +	3.9915 089 +	0.9063 5162 +	263.9668 729 +	18.5386 014 -	0.9662 2687 +
a_1	11.3971 945 +	3.7160 232 -	0.0041 3217 +	14.3371 710 +	0.0444 802 -	0.0071 4462 +
a_2	126 059 +	998 666 -	10 1784 +	962 505 +	5400 303 +	2 8155 -
a_3	235 085 +	210 208 +	7266 -	324 099 -	76 114 +	588 -
a_4	1 632 +	5 293 +	232 -	5 193 -	36 049 -	169 -
a_5	707 -	530 +		4 620 +	88 -	
October 21						
a_0	173.9130 561 +	0.1972 222 +	0.9114 2665 +	278.3678 272 +	18.0390 537 -	0.9730 8236 +
a_1	11.4932 306 +	3.8503 120 -	0.0059 4061 +	14.4326 735 +	1.0439 521 +	0.0065 5710 +
a_2	834 028 +	330 962 -	7 8651 +	5 341 +	5411 500 +	3 1017 -
a_3	234 389 +	236 535 +	8203 -	299 552 -	68 269 -	1289 -
a_4	1 888 -	8 052 +	57 -	18 591 +	36 254 -	440 -
a_5	973 -	277 +		3 050 +	1 132 +	
October 22						
a_0	185.5128 423 +	3.6616 996 -	0.9180 7117 +	292.7732 437 +	16.4642 907 -	0.9793 1201 +
a_1	11.7291 106 +	3.8421 851 -	0.0072 6525 +	14.3528 346 +	2.0918 362 +	0.0058 8047 +
a_2	1516 124 +	429 743 +	5 3761 +	751 281 -	5000 532 +	3 7568 -
a_3	216 859 +	271 239 +	8436 -	196 154 -	201 698 -	3104 -
a_4	6 762 -	9 543 +	142 +	33 820 +	30 268 -	586 -
a_5	1 405 -	192 -		465 +	1 586 +	

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	307.0347 633+	13.8954 393-	0.9847 7990+	57.5517 467+	16.6555 784+	0.9618 6039+
a_1	14.1574 903+	3.0201 188+	0.0050 1252+	13.9659 560+	1.9601 355+	0.0115 2878-
a_2	1132 254-	4229 711+	5 0375-	307 739-	4907 266-	5 0793-
a_3	57 412-	307 005-	5524-	251 984-	118 617-	1 5567+
a_4	35 654+	22 187-	524-	14 331-	37 014+	125+
a_5	1 596-	1 391+		4 038+	766-	
November 1						
a_0	321.0766 927+	10.4851 295-	0.9892 2820+	71.4607 012+	18.1167 503+	0.9499 8060+
a_1	13.9272 779+	3.7657 799+	0.0038 1831+	13.8250 991+	0.9575 181+	0.0120 7265-
a_2	1106 611-	3189 471+	6 9992-	1109 210-	5048 739-	3492-
a_3	68 658+	382 014-	7697-	269 280-	21 083+	1 6016+
a_4	27 194+	15 309-	214-	6 525+	32 899+	359-
a_5	2 587-	1 070+		3 430+	1 973-	
November 2						
a_0	334.9026 360+	6.4400 278-	0.9922 6749+	85.1489 468+	18.5745 953+	0.9380 2960+
a_1	13.7361 370+	4.2834 812+	0.0021 7899+	13.5267 961+	0.0337 323-	0.0116 7641-
a_2	763 392-	1962 244+	9 4205-	1843 581-	4807 885-	4 2307+
a_3	151 424+	432 555-	8602-	209 958-	132 739+	1 4519+
a_4	13 983+	10 149-	305+	23 867+	22 646+	662-
a_5	2 825-	1 050+		1 534+	2 321-	
November 3						
a_0	348.5786 919+	2.0044 876-	0.9934 2147+	98.4729 291+	18.0753 809+	0.9269 1482+
a_1	13.6330 662+	4.5426 295+	0.0000 4905+	13.1054 044+	0.9475 894-	0.0104 2119-
a_2	253 511-	614 163+	11 8000-	2314 966-	4297 042-	8 1853+
a_3	179 171+	462 436-	7373-	100 232-	200 369+	1 1825+
a_4	307-	5 048-	893+	31 226+	10 789+	793-
a_5	2 719-	1 418+		334-	1 854-	
November 4						
a_0	2.2040 215+	2.5529 516+	0.9922 2572+	111.3399 029+	16.7190 176+	0.9174 2248+
a_1	13.6346 338+	4.5254 217+	0.0024 9637-	12.6246 643+	1.7434 977-	0.0084 6110-
a_2	254 927+	789 258-	13 4621-	2431 717-	3649 749-	11 2567+
a_3	150 994+	468 155-	3721-	20 736+	225 465+	8629+
a_4	14 126-	2 039+	1344+	29 084+	1 473+	810-
a_5	2 288-	1 952+		1 327-	1 009-	
November 5						
a_0	15.8776 060+	6.9530 311+	0.9883 5937+	123.7262 448+	14.6331 378+	0.9101 6525+
a_1	13.7241 245+	4.2289 156+	0.0052 4661-	12.1555 117+	2.4057 227-	0.0059 8327-
a_2	600 205+	2161 949-	13 7683-	2208 333-	2974 597-	13 3606+
a_3	72 191+	440 342-	1776+	123 697+	221 732+	5383+
a_4	25 957-	11 969+	1472+	22 110+	3 492-	776-
a_5	1 221-	2 243+		1 469-	199-	
November 6						
a_0	29.6662 522+	10.9231 388+	0.9817 6841+	135.6753 570+	11.9517 596+	0.9055 6412+
a_1	13.8548 317+	3.6703 320+	0.0078 8805-	11.7590 642+	2.9356 178-	0.0031 8068-
a_2	648 758+	3388 690-	12 3598-	1719 298-	2332 320-	14 5113+
a_3	42 814-	370 266-	7776+	197 603+	206 121+	2283+
a_4	32 432-	23 482+	1225+	14 623+	4 371-	737-
a_5	665+	1 889+		1 183-	391+	
November 7						
a_0	43.5785 017+	14.2201 122+	0.9727 3440+	147.2835 957+	8.8031 238+	0.9038 5002+
a_1	13.9591 017+	2.8918 501+	0.0100 7768-	11.4797 435+	3.3417 982-	0.0002 3943-
a_2	332 372+	4339 674-	9 3076-	1050 594-	1736 259-	14 7544+
a_3	164 703-	258 114-	1 2733+	244 440+	192 753+	661-
a_4	29 072-	33 186+	711+	8 694+	2 313-	715-
a_5	2 836+	763+		867-	746+	

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	158.6835 065+	5.3068 183+	0.9050 7227+	259.8711 312+	18.5591 609-	0.9739 8179+
a_1	11.3460 006+	3.6317 760-	0.0026 6302+	14.6214 770+	0.3871 839-	0.0074 9437+
a_2	273 787-	1164 399-	14 1274+	1370 519+	5586 198+	9 4997-
a_3	270 598+	191 056+	3521-	421 318-	134 422+	4820-
a_4	4 416+	1 511+	704-	19 286-	44 797-	1078+
a_5	755-	900+		6 828+	677-	
November 17			November 25			
a_0	170.0295 544+	1.5779 492+	0.9091 0578+	274.5862 826+	18.3788 302-	0.9804 8876+
a_1	11.3738 117+	3.8062 844-	0.0053 5472+	14.7648 833+	0.7521 278+	0.0054 9298+
a_2	556 960+	573 140-	12 6497+	59 325+	5713 948+	10 3061-
a_3	280 580+	206 079+	6348-	431 020-	50 101-	429-
a_4	732+	6 124+	677-	16 282+	47 905-	846+
a_5	956-	845+		5 283+	1 866+	
November 18			November 26			
a_0	181.4870 976+	2.2643 443-	0.9156 5522+	289.3161 528+	17.0649 217-	0.9849 5530+
a_1	11.5691 917+	3.8562 169-	0.0076 6713+	14.6565 921+	1.8616 592+	0.0034 5275+
a_2	1393 528+	90 319+	10 3418+	1083 191-	5294 970+	9 9400-
a_3	273 612+	238 830+	9083-	315 232-	222 363-	2991+
a_4	3 985-	10 512+	591-	42 937+	37 871-	429+
a_5	1 499-	501+		1 424+	3 079+	
November 19			November 27			
a_0	193.2224 548+	6.0865 449-	0.9242 5978+	303.8373 387+	14.6994 809-	0.9874 4825+
a_1	11.9276 365+	3.7620 494-	0.0094 3933+	14.3632 674+	2.8403 350+	0.0015 7164+
a_2	2175 447+	874 930+	7 2681+	1757 146-	4431 515+	8 7989-
a_3	242 248+	285 454+	1 1488-	131 121-	343 257-	4692+
a_4	11 529-	13 231+	401-	49 294+	21 974-	19-
a_5	2 245-	255-		1 829-	2 695+	
November 20			November 28			
a_0	205.3904 834+	9.7312 585-	0.9343 0702+	318.0165 259+	11.4522 480-	0.9881 8673+
a_1	12.4296 655+	3.4962 642-	0.0105 3222+	13.9913 035+	3.6162 178+	0.0000 4816-
a_2	2810 501+	1808 150+	3 5907+	1873 162-	3296 860+	7 4128-
a_3	173 424+	335 121+	1 3134-	46 944+	404 830-	4562+
a_4	23 094-	12 137+	84-	39 337+	8 434-	352-
a_5	2 698-	1 475-		3 186-	1 576+	
November 21			November 29			
a_0	218.1159 620+	13.0121 294-	0.9450 6614+	331.8288 226+	7.5475 129-	0.9874 3939+
a_1	13.0332 070+	3.0299 821-	0.0108 5297+	13.6448 957+	4.1515 541+	0.0014 0800-
a_2	3165 102+	2871 587+	3871-	1528 242-	2047 492+	6 2598-
a_3	54 515+	368 126+	1 3491-	172 381+	423 347-	3080+
a_4	37 356-	4 736+	332+	23 004+	771-	483-
a_5	1 926-	2 886-		3 219-	630+	
November 22			November 30			
a_0	231.4672 026+	15.7179 552-	0.9557 4882+	345.3401 107+	3.2335 584-	0.9854 3138+
a_1	13.6666 797+	2.3447 766-	0.0103 8414+	13.3985 539+	4.4340 547+	0.0025 8690-
a_2	3085 113+	3975 454+	4 2220-	905 293-	779 083+	5 6229-
a_3	112 608-	357 760+	1 2142-	232 403+	420 333-	1082+
a_4	47 869-	10 134-	752+	6 816+	2 095+	395-
a_5	813+	3 705-		2 859-	278+	
November 23			December 1			
a_0	245.4264 272+	17.6307 944-	0.9655 9687+	358.6717 714+	1.2366 085+	0.9822 8906+
a_1	14.2311 831+	1.4482 636-	0.0092 0562+	13.2885 139+	4.4647 488+	0.0036 9486-
a_2	2468 188+	4950 766+	7 4043-	195 790-	466 598-	5 5276-
a_3	293 785-	280 593+	9067-	231 283+	409 030-	542-
a_4	43 865-	29 400-	1039+	7 536-	3 256+	136-
a_5	4 671+	2 988-		2 521-	526+	

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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 2			December 10			
a_0	11.9628 289+	5.6141 728+	0.9780 3466+	119.4130 978+	15.6142 171+	0.9144 6850+
a_1	13.3144 665+	4.2502 863+	0.0048 2208-	12.4473 705+	2.1840 115-	0.0069 8118-
a_2	427 591+	1668 910-	5 7614-	2406 431-	3299 697-	8 4848+
a_3	176 231+	390 404-	1094-	33 568+	243 346+	9232+
a_4	20 364-	5 789+	202+	29 986+	350+	417-
a_5	2 029-	1 133+		1 439-	1 015-	
December 3			December 11			
a_0	25.3354 383+	9.6592 199+	0.9726 2753+	131.6260 368+	13.1245 040+	0.9084 2395+
a_1	13.4436 951+	3.8022 655+	0.0059 9908-	11.9874 299+	2.7713 136-	0.0050 2392-
a_2	813 735+	2794 053-	5 9590-	2140 253-	2577 697-	11 0012+
a_3	75 149+	355 613-	258-	139 077+	235 065+	7552+
a_4	30 931-	11 554+	507+	22 466+	4 651-	525-
a_5	897-	1 689+		1 478-	203-	
December 4			December 12			
a_0	38.8648 388+	13.1478 431+	0.9660 3503+	143.4154 478+	10.1184 419+	0.9045 7042+
a_1	13.6161 678+	3.1422 372+	0.0071 7833-	11.6093 500+	3.2182 944-	0.0026 1811-
a_2	844 557+	3774 635-	5 7271-	1603 035-	1902 414-	12 9495+
a_3	56 403-	292 509-	1822+	214 344+	214 792+	5449+
a_4	35 785-	20 299+	680+	14 956+	5 554-	605-
a_5	1 098+	1 698+		1 137-	408+	
December 5			December 13			
a_0	52.5563 534+	15.8855 656+	0.9583 0901+	154.8873 105+	6.7308 708+	0.9032 9570+
a_1	13.7543 958+	2.3085 253+	0.0082 4186-	11.3584 603+	3.5363 566-	0.0001 1105+
a_2	471 621+	4513 339-	4 7726-	881 647-	1287 263-	14 2184+
a_3	187 316-	194 813-	4601+	262 969+	196 888+	3032+
a_4	30 196-	29 120+	675+	9 280+	3 414-	688-
a_5	3 302+	862+		819-	800+	
December 6			December 14			
a_0	66.3364 903+	17.7262 738+	0.9496 4265+	166.1847 492+	3.0852 153+	0.9048 5203+
a_1	13.7820 990+	1.3594 906+	0.0090 3133-	11.2643 244+	3.7357 080-	0.0030 1817+
a_2	238 396-	4914 430-	2 9924-	45 244-	709 065-	14 7121+
a_3	274 484-	70 525-	7344+	291 928+	191 355+	288+
a_4	13 023-	33 525+	509+	5 263+	680+	790-
a_5	4 345+	561-		761-	1 008+	
December 7			December 15			
a_0	80.0664 334+	18.5905 654+	0.9403 9062+	177.4741 921+	0.7020 950-	0.9093 3639+
a_1	13.6490 366+	0.3685 755+	0.0093 8911-	11.3445 779+	3.8193 388-	0.0059 3764+
a_2	1096 451-	4930 495-	4918-	854 510+	120 826-	14 3209+
a_3	283 621-	57 258+	9397+	305 165+	204 149+	2869-
a_4	9 383+	30 483+	249+	1 575+	5 835+	909-
a_5	3 455+	1 808-		1 099-	1 012+	
December 8			December 16			
a_0	93.5787 467+	18.4746 846+	0.9310 4879+	188.9347 851+	4.5124 168-	0.9166 6833+
a_1	13.3501 385+	0.5890 578-	0.0091 9561-	11.6071 092+	3.7794 194-	0.0086 7936+
a_2	1856 457-	4593 963-	2 4681+	1768 475+	536 786+	12 9116+
a_3	212 720-	160 852+	1 0385+	300 025+	237 418+	6519-
a_4	26 782+	21 057+	25-	3 807-	11 087+	1011-
a_5	1 352+	2 242-		1 876-	688+	
December 9			December 17			
a_0	106.7247 808+	17.4441 972+	0.9222 0360+	200.7481 760+	8.2132 384-	0.9265 6355+
a_1	12.9264 176+	1.4522 924-	0.0083 9142-	12.0483 496+	3.5960 595-	0.0110 2564+
a_2	2320 472-	4007 518-	5 5618+	2626 933+	1322 481+	10 3488+
a_3	93 162-	222 890+	1 0267+	265 445+	288 130+	1 0607-
a_4	33 165+	9 585+	253-	13 232-	14 813+	1026-
a_5	538-	1 835-		2 919-	184-	

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DAILY POLYNOMIAL COEFFICIENTS

	Apparent Right Ascension	Apparent Declination	Horizontal Parallax	Apparent Right Ascension	Apparent Declination	Horizontal Parallax
December 18						
a_0	213-0841 483+	11-6467 740-	0-9385 0775+	328-3926 955+	8-8115 792-	0-9990 6850+
a_1	12-6466 171+	3-2392 930-	0-0127 3612+	14-0863 896+	4-1195 280+	0-0040 3035-
a_2	3314 610+	2273 953+	6 5567+	2257 917-	2405 940+	13 2156-
a_3	183 009+	344 635+	1 4788-	92 002+	493 426-	1 3330+
a_4	28 300-	14 180+	854-	38 898+	2 201+	137+
a_5	3 510-	1 756-		3 979-	1 856+	
December 19						
a_0	226-0773 463+	14-6229 656-	0-9517 4313+	342-2659 855+	4-5003 939-	0-9938 5127+
a_1	13-3513 685+	2-6763 198-	0-0135 6962+	13-6759 772+	4-4544 954+	0-0062 6811-
a_2	3658 565+	3375 382+	1 6221+	1788 367-	957 384+	9 1541-
a_3	35 430+	382 702+	1 8300-	208 103+	466 861-	1 3785+
a_4	46 954-	5 391+	405-	18 698+	11 167+	504-
a_5	2 276-	3 700-		3 430-	462+	
December 20						
a_0	239-7931 912+	16-9233 080-	0-9652 8792+	355-7854 632+	0-0043 167+	0-9868 0056+
a_1	14-0737 954+	1-8861 280-	0-0133 2880+	13-3865 000+	4-5106 111+	0-0077 0558-
a_2	3460 192+	4518 731+	4 0883-	1086 177-	371 629-	5 3309-
a_3	172 879-	366 658+	1 9997-	249 016+	417 920-	1 1663+
a_4	59 478-	13 775-	326+	1 536+	13 127+	824-
a_5	1 739+	4 817-		2 709-	131-	
December 21						
a_0	254-1899 440+	18-3227 564-	0-9780 1118+	9-0881 298+	4-4372 725+	0-9786 7027+
a_1	14-6910 545+	0-8803 018-	0-0119 2426+	13-2432 301+	4-3160 949+	0-0084 5489-
a_2	2602 116+	5487 719+	9 8654-	357 018-	1547 973-	2 3274-
a_3	390 590-	264 097+	1 8693-	228 414+	366 662-	8282+
a_4	50 482-	38 984-	1187+	12 045-	12 222+	845-
a_5	6 802+	3 607-		2 128-	20-	
December 22						
a_0	269-0977 831+	18-6321 357-	0-9887 7384+	22-3170 822+	8-5631 241+	0-9700 5701+
a_1	15-0775 110+	0-2790 779+	0-0094 3792+	13-2344 695+	3-9013 811+	0-0087 0572-
a_2	1195 755+	6009 950+	14 7401-	234 632+	2574 844-	3439-
a_3	523 502-	74 062+	1 3837-	159 371+	317 693-	4853+
a_4	14 444-	57 606-	1877+	22 893-	12 022+	658-
a_5	8 630+	117-		1 420-	483+	
December 23						
a_0	284-2419 381+	17-7504 288-	0-9966 1816+	35-5885 208+	12-1765 020+	0-9613 5885+
a_1	15-1581 451+	1-4801 898+	0-0061 5000+	13-3193 417+	3-2961 553+	0-0086 5522-
a_2	374 890-	5885 416+	17 7579-	561 134+	3450 950-	7265+
a_3	496 794-	155 557-	6142-	54 318+	264 504-	2206+
a_4	30 341+	57 612-	2096+	30 323-	14 517+	367-
a_5	5 329+	3 365+		193-	968+	
December 24						
a_0	299-3164 818+	15-7026 779-	1-0009 5190+	48-9663 561+	15-1026 604+	0-9527 9467+
a_1	14-9489 241+	2-5892 448+	0-0024 9807+	13-4356 403+	2-5329 048+	0-0084 5844-
a_2	1629 978-	5106 873+	18 3541-	540 183+	4147 651-	1 1772+
a_3	325 065-	351 619-	2413+	67 905-	196 738-	745+
a_4	56 735+	39 714-	1739+	31 476-	19 589+	64-
a_5	95+	4 618+		1 566+	1 018+	
December 25						
a_0	314-0755 846+	12-6414 172-	1-0016 5607+			
a_1	14-5481 466+	3-4915 561+	0-0010 3078-			
a_2	2264 001-	3860 001+	16 6104-			
a_3	99 101-	464 826-	9447+			
a_4	55 979+	15 994-	977+			
a_5	3 235-	3 638+				

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