

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

R , Obliquity of the Ecliptic (ε)

January 0 – May 1

a = 0 , b = 121

April 30 – September 1

a = 120 , b = 244

CN	R	ε	R	ε
N	h	o	h	o
0	10.6047331224855	23.4377110948153	18.5884978681253	23.4374297409298
1	3.97543961793545	0.00000374072128537152	4.07404271362649	-0.0000767344152519663
2	-0.0000111746294269529	-0.0000920193854998567	-0.00000445382964203615	0.000115080259167716
3	0.00000601353450997601	-0.0000297721754610259	-0.00000530713889639654	-0.0000151928712408966
4	0.00000140356548253156	0.0000151182488537369	0.00000138337152686356	-0.00000504963089059618
5	0.000000138490693552184	0.00000100251743422993	0.00000065994002296749	0.000000426635202946445
6	0.000000157336542822476	0.00000669989104045574	0.00000125087738594553	0.00000596105236270906
7	0.000000222589443201901	-0.000000441231395459629	0.00000004953999906774	0.00000275021483065287
8	-0.0000000685421627801239	0.0000098081536245487	0.00000142415194902235	0.00000429420345558688
9	0.0000000149332952646829	-0.000000417381987394321	-0.000000596307878154245	0.00000669343303956449
10	-0.0000000769415489476404	0.00000837027183715236	0.000000507705210021676	0.00000240861882286837
11	-0.000000622660112228441	0.000000375632389016987	-0.00000120245335614963	0.000008758955501178
12	0.000000569803728012131	0.000000754251618669713	-0.00000124334235592057	-0.000000941157376291793
13	-0.00000165985774185725	0.00000223711277574986	-0.000000271374719957527	0.00000428684551204313
14	-0.000000472012178097841	-0.00000587318002688818	-0.000000727272654824591	-0.00000743348801679129
15	-0.000000055970456431955	-0.000000416914366117297	0.000000157935891470543	-0.00000277145093181926
16	-0.000000132172504777413	-0.00000905274669705722	-0.000000965579028040612	-0.00000328553435849068
17	0.00000113639917586731	-0.0000014855717466533	0.000000878370416904417	-0.00000872708422250063
18	0.0000000602332607903144	0.00000162214661019034	0.000000671607686312921	0.00000393031071178679

August 31 – December 31

a = 243 , b = 366

CN	R	ε
N	h	o
0	2.63796702404559	23.4372014360339
1	4.04115992319754	-0.000314251487697322
2	0.0000182191401306518	-0.0000280689790527761
3	0.00000206599329801187	0.0000417687142220547
4	-0.000000809802311384053	0.00000912602085753393
5	-0.0000000919522232668383	-0.00000578327131626335
6	0.000000845573350444586	0.00000554551519900156
7	-0.000000117048803980223	0.000000335382595865491
8	0.000000452745523465608	0.00000603417640925648
9	-0.000000433372778593087	0.00000399314396914479
10	0.000000610631074726012	0.00000264726427276254
11	-0.000000777806445440868	0.00000720858849548387
12	0.000000461849419813589	-0.00000330397508345217
13	-0.000000563735250338851	0.00000681690341217303
14	-0.00000151316425159069	-0.00000471427555203316
15	0.000000134781842700247	-0.00000116537771286008
16	-0.000000665242598614963	-0.0000047559037442946
17	0.000000752759119516576	-0.00000779245714784199
18	0.000000531524415639976	0.00000238527244821752