

1847.

W. J. SIMMONITE'S
ASTRONOMICAL EPHEMERIS,
BEING A YEARLY COMPANION
TO THE
ARCANA OF PROGNOSTIC ASTRONOMY:
CONTAINING THE
LONGITUDES, LATITUDES, AND DECLINATIONS,
OF THE
SUN, MOON, AND PLANETS.

THORNE :
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TABLE

To convert **CLOCK TIME** into equivalent **SIDEREAL TIME**, to find the *true* Right Ascension of the Meridian, *perpetually*.

SOLAR HOURS.				MINUTES.	
Clock Time.	Sidereal Time to add.	Clock Time.	Sidereal Time to add.	Clock or Solar Time.	Sidereal Time to add.
	<i>min. sec.</i>		<i>min. sec.</i>	<i>min.</i>	<i>sec.</i>
1	0 10	13	2 8	4	1
2	0 20	14	2 18	10	2
3	0 30	15	2 28	16	3
4	0 40	16	2 38	22	4
5	0 49	17	2 48	28	5
6	0 59	18	2 57	34	6
7	1 9	19	3 7	40	7
8	1 19	20	3 17	46	8
9	1 28	21	3 27	52	9
10	1 38	22	3 37	58	10
11	1 48	23	3 47	60	10
12	1 58	24	3 57		

USE OF THIS TABLE.

Add the amount opposite the required hour and minute of the Clock thereto, and the sum will be the Sidereal Time since the *previous* noon: to this add the Right Ascension of the Meridian, as given in the Table for the month, and it will give the *true* Right Ascension on the Meridian.

Example.

Require the Right Ascension, 10th August, 24 min. past 5 o'clock p. m., 1847.

	<i>h.</i>	<i>m.</i>	<i>s.</i>
Right Ascension, at noon, 10th August	9	13	22
The time by the Clock	5	24	0
Add for 5 hours	0	0	49
And for 24 minutes	0	0	4

Right Ascension on the Meridian = 14 38 15

N. B. - If the hours exceed 24 hours, then take the excess of the 24 hours—as were the Right Ascension, when all added, to come to 28 hours, you must call it 4 hours.

OF THE

For turning the Arc of Direction into Time, to learn at what age its effects will appear.

January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
281	314	341	10	38	68	99	130	160	187	216	247
282	332	342	11	38	42	44	59	2	3	5	0
283	315	343	12	59	44	100	131	56	57	217	248
284	316	343	12	39	44	47	58	160	188	218	249
285	317	344	12	56	71	101	132	161	189	219	250
286	318	345	13	52	41	102	133	162	189	219	251
287	319	346	14	52	72	103	134	163	190	220	252
288	319	347	15	42	47	104	135	164	191	221	253
289	320	348	15	43	50	105	136	165	192	222	254
290	321	348	16	44	51	107	137	166	193	223	255
291	322	349	17	44	52	108	138	167	194	224	256
292	323	350	18	45	53	109	139	168	195	225	257
293	325	352	19	46	55	110	140	169	196	226	258
294	326	353	20	47	57	111	141	170	197	227	259
295	327	354	21	48	58	112	142	171	198	228	260
296	328	355	22	49	59	113	143	172	199	229	261
297	329	356	23	50	60	114	144	173	200	230	262
298	330	357	24	51	61	115	145	174	201	231	263
299	331	358	25	52	62	116	146	175	202	232	264
300	332	359	26	53	63	117	147	176	203	233	265
301	333	360	27	54	64	118	148	177	204	234	266
302	334	361	28	55	65	119	149	178	205	235	267
303	335	362	29	56	66	120	150	179	206	236	268
304	336	363	30	57	67	121	151	180	207	237	269
305	337	364	31	58	68	122	152	181	208	238	270
306	338	365	32	59	69	123	153	182	209	239	271
307	339	366	33	60	70	124	154	183	210	240	272
308	340	367	34	61	71	125	155	184	211	241	273
309	341	368	35	62	72	126	156	185	212	242	274
310	342	369	36	63	73	127	157	186	213	243	275
311	343	370	37	64	74	128	158	187	214	244	276
312	344	371	38	65	75	129	159	188	215	245	277
313	345	372	39	66	76	130	160	189	216	246	278
314	346	373	40	67	77	131	161	190	217	247	279
315	347	374	41	68	78	132	162	191	218	248	280
316	348	375	42	69	79	133	163	192	219	249	281
317	349	376	43	70	80	134	164	193	220	250	282
318	350	377	44	71	81	135	165	194	221	251	283
319	351	378	45	72	82	136	166	195	222	252	284
320	352	379	46	73	83	137	167	196	223	253	285
321	353	380	47	74	84	138	168	197	224	254	286

A TABLE

SUN'S RIGHT ASCENSION, IN 1847.

For finding the time of Day when the Sun is at right angles to the Earth.

Time of Day	Right Ascension	Declination	Latitude	Longitude
12	155 38	23 24	18 24	18 24
1	155 38	23 24	18 24	18 24
2	155 38	23 24	18 24	18 24
3	155 38	23 24	18 24	18 24
4	155 38	23 24	18 24	18 24
5	155 38	23 24	18 24	18 24
6	155 38	23 24	18 24	18 24
7	155 38	23 24	18 24	18 24
8	155 38	23 24	18 24	18 24
9	155 38	23 24	18 24	18 24
10	155 38	23 24	18 24	18 24
11	155 38	23 24	18 24	18 24
12	155 38	23 24	18 24	18 24

USE OF THE TABLE.

A child born at noon of June 28th, 1847, and the Arc of Direction for Sol to the square of Saturn should be 18 degree 24 minutes.

The Right Ascension of the Sun, at noon, June 28th, is 96° 38'

The Arc of the Sun to square Saturn, is 18 24

The Right Ascension of Sol when the aspect is complete = 115 2

The time answering the Sun's R. A. 115° 2' is 15th July, or 196 22 26

The day of the year answering to June 28th, noon, is 179 0 0

The remainder 17 22 26

Now these 17 days, 22 hours, 26 minutes, at the rate of *one* year for one day, one month for 2 hours, and 1 week for 30 minutes, is the age of 17 years, 11 months, and 6 days; or about the 4th of June, in the year of our Lord, 1865, when the effects of the Sun to the square of Saturn would occur.

WILLIAM JAMES SIMMONITE.

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

JANUARY, 1847.

M D	☾'s Node.	☾ Dec.	♀ Dec.	♂ Dec.	♀ Dec.	♂ Lat.	♀ Lat.	♂ Lat.	♀ Lat.	♂ Lat.	♀ Lat.
1	24 3	1 52	13 s 3	17 s 22	14 N 25	0 s 40	1 s 29	0 N 40	0 N 11	0 s 49	1 N 48
7	23 53	1 32	13 5	16 51	14 48	0 40	1 29	0 38	0 8	1 0	0 53
13	23 34	1 18	13 4	16 19	15 14	0 39	1 28	0 37	0 4	1 10	0 4
19	23 15	1 9	12 59	15 42	15 41	0 39	1 28	0 35	0 0	1 18	0 s 40
25	22 56	1 5	12 52	15 3	16 12	0 39	1 28	0 34	0 s 4	1 26	1 37

	Right Asc. of M. C.	☾ Long.	♂ Long.	♀ Long.	♂ Long.	♀ Long.	♂ Long.	♀ Long.	♂ Long.	♀ Decl.	♂ Lat.
1	18 42 4	10 31	10 25	27 27	8 6	2 9	14 29	17 48	9 13	18 N 19	4 s 49
2	18 46 0	11 32	10 26	27 33	8 0	2 50	15 43	18 54	21 45	16 46	5 0
3	18 49 57	12 34	10 26	27 39	7 55	3 31	16 58	20 14	21 48	14 27	4 56
4	18 53 53	13 35	10 27	27 45	7 50	4 12	18 14	21 10	16 13	11 53	4 39
5	18 57 50	14 36	10 27	27 51	7 45	4 54	19 29	22 21	28 12	8 12	4 10
6	19 1 47	15 37	10 28	27 57	7 40	5 35	20 45	23 35	10 4	4 34	3 30
7	19 5 43	16 38	10 29	28 3	7 35	6 17	22 0	24 50	21 52	0 46	2 41
8	19 9 40	17 39	10 30	28 9	7 30	6 58	23 16	26 7	3 41	3 s 4	1 45
9	19 13 36	18 40	10 31	28 15	7 25	7 40	24 31	27 25	15 37	6 49	0 43
10	19 17 33	19 42	10 32	28 21	7 21	8 21	25 46	28 44	27 44	10 21	0 N 21
11	19 21 29	20 43	10 33	28 27	7 16	9 3	27 0	29 5	10 8	13 31	1 25
12	19 25 26	21 44	10 34	28 33	7 12	9 44	28 17	1 27	22 54	16 8	2 27
13	19 29 22	22 45	10 35	28 40	7 9	10 25	29 32	2 50	1 7	18 0	3 24
14	19 33 19	23 46	10 36	28 46	7 6	11 7	0 3	4 14	19 48	18 54	4 10
15	19 37 16	24 47	10 37	28 52	7 3	11 49	2 3	5 39	3 56	18 41	4 43
16	19 41 12	25 48	10 39	28 58	7 0	12 30	3 18	7 3	18 29	17 14	4 59
17	19 45 9	26 49	10 40	29 5	6 58	13 12	4 33	8 31	3 20	14 3	4 55
18	19 49 5	27 51	10 41	29 12	6 55	13 54	5 49	9 57	18 19	11 3	4 31
19	19 53 2	28 52	10 43	29 19	6 52	14 35	7 4	11 25	3 16	6 45	3 49
20	19 56 58	29 53	10 44	29 25	6 50	15 17	8 20	12 52	18 4	2 6	2 51
21	20 0 55	0 54	10 46	29 32	6 48	15 58	9 35	14 23	2 36	2 N 37	1 43
22	20 4 51	1 55	10 48	29 38	6 46	16 40	10 50	15 53	16 48	7 4	0 30
23	20 8 48	2 56	10 50	29 45	6 44	17 22	12 5	17 23	0 40	11 2	0 s 43
24	20 12 45	3 57	10 52	29 52	6 42	18 4	13 21	18 53	14 8	12 19	1 62
25	20 16 41	4 58	10 54	29 59	6 41	18 46	14 36	20 25	27 28	16 42	2 54
26	20 20 38	5 59	10 56	0 6	6 40	19 27	15 52	21 58	10 27	18 19	3 45
27	20 24 34	7 0	10 58	0 13	6 39	20 9	17 8	23 31	23 14	18 53	4 24
28	20 28 31	8 1	1 0	20 6	6 38	20 51	18 29	25 4	5 50	18 31	4 49
29	20 32 27	9 1	1 1	30 6	6 38	21 33	19 38	26 38	18 16	17 15	5 0
30	20 36 24	10 2	1 1	50 6	6 37	22 15	20 53	28 14	0 32	15 12	4 58
31	20 40 20	11 3	1 1	70 4	6 s 37	22 57	22 8	29 50	12 41	12 31	4 41

	☾ Long.	♀ Long.	♂ Long.	♀ Long.	☾ Decl.	♂ Decl.	♀ Decl.	♂ Decl.	♀ Decl.	♂ Decl.	♀ Decl.
1	11 30	21 57	29 43	20 33	23 s 2	3 N 30	13 s 45	21 N 1	20 s 24	23 s 29	21 s 7
4	12 21	22 55	0 25	20 25	22 46	3 31	13 39	20 59	20 50	23 7	21 49
7	13 13	24 1	1 8	20 22	22 25	3 32	13 33	20 57	21 14	22 39	22 27
10	14 0	25 2	1 54	20 22	22 1	3 34	13 26	20 56	21 36	22 5	22 58
13	14 45	26 5	2 44	20 27	21 32	3 35	13 20	20 55	21 57	21 26	23 21
16	15 30	27 7	3 37	20 37	21 0	3 37	13 13	20 54	22 16	20 38	23 35
19	16 10	28 9	4 31	20 51	20 24	3 39	13 6	20 53	22 34	19 47	23 38
22	16 48	29 10	5 26	21 8	19 45	3 41	12 59	20 53	22 49	18 50	23 30
25	17 24	0 11	6 23	21 26	19 2	3 43	12 52	20 52	23 3	17 58	23 10
28	17 55	1 13	7 26	21 48	18 17	3 45	12 44	20 53	23 15	16 42	22 39
31	18 23	2 13	8 28	22 13	17 s 28	3 N 48	12 s 37	20 N 53	23 s 25	15 s 32	21 s 54

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

APRIL, 1847.

M D	☉'s Node.	☾ Dec.	♀ Dec.	♂ Dec.	♂ Dec.	♂ Lat.	♂ Lat.	♂ Lat.	♂ Lat.	♀ Lat.	♂ Lat.
1	19 26	6N21	9s14	6s54	22N40	0s38	1s32	0s21	1s5	0s4	2N22
7	19 7	6 58	8 45	6 12	23 10	0 38	1 33	0 20	1 12	0N13	1 14
13	18 47	7 28	8 16	5 31	23 40	0 38	1 34	0 19	1 18	0 30	0s22
19	18 29	7 50	7 46	4 53	24 7	0 38	1 35	0 18	1 25	0 48	1 40
25	18 10	8 3	7 16	4 16	24 34	0 38	1 36	0 17	1 31	1 5	2 31

	Right Asc. of M. C.	☉ Long.	♂ Long.	♂ Long.	♂ Long.	♂ Long.	♀ Long.	♂ Long.	☉ Long.	☉ Dec.	☉ Lat.
1	0 36 54	11P 8	14P 3	7 48	12 1	5 38	6 35	9P 57	17 51	7s 5	0s 5
2	0 40 50	12 8	14 6	7 54	12 11	6 21	7 48	9R 8	29 53	10 29	1N 2
3	0 44 47	13 7	14 19	8 0	12 21	7 5	9 1	8 19	12 2	13 28	2 6
4	0 48 43	14 6	14 13	8 6	12 31	7 48	10 14	7 32	24 22	15 53	3 5
5	0 52 40	15 5	14 16	8 13	12 41	8 31	12 27	6 48	6 55	17 35	3 57
6	0 56 36	16 4	14 19	8 19	12 51	9 14	12 40	6 7	19 43	18 26	4 38
7	1 0 33	17 3	14 23	8 25	13 1	9 58	13 53	5 30	2P 48	18 20	5 6
8	1 4 29	18 1	14 26	8 31	13 11	10 41	15 6	4 57	16 13	17 13	5 18
9	1 8 26	19 0	14 29	8 37	13 22	11 24	16 19	4 28	29 59	15 5	5 12
10	1 12 23	19 59	14 33	8 43	13 32	12 7	17 32	4 3	14 7	12 1	4 47
11	1 16 19	20 58	14 36	8 50	13 43	12 50	18 45	3 46	28 34	8 9	4 5
12	1 20 16	21 57	14 40	8 56	13 54	13 34	19 58	3 33	19 19	3 43	3 5
13	1 24 12	22 56	14 44	9 2	14 5	14 17	21 11	3 25	28 14	1N 1	1 52
14	1 28 9	23 54	14 47	9 8	14 16	15 0	22 24	3D 24	13P 14	5 42	0 31
15	1 32 5	24 53	14 50	9 14	14 27	15 44	23 37	3 26	28 9	10 1	0s 52
16	1 36 2	25 52	14 54	9 20	14 38	16 27	24 50	3 33	12 51	13 39	2 10
17	1 39 58	26 50	14 57	9 26	14 50	17 10	26 2	3 47	27 14	16 21	3 18
18	1 43 55	27 49	15 1	9 32	15 1	17 53	27 14	4 3	11 14	17 59	4 12
19	1 47 52	28 48	15 4	9 37	15 13	18 36	28 26	4 25	24 47	18 31	4 50
20	1 51 48	29 46	15 7	9 43	15 25	19 20	29 38	4 53	7 55	18 2	5 12
21	1 55 45	0 45	15 10	9 48	15 36	20 3	0 51	5 23	20 40	16 39	5 17
22	1 59 41	1 43	15 14	9 53	15 48	20 46	2 3	5 58	3 4	14 30	5 7
23	2 3 38	2 41	15 17	9 59	16 0	21 29	3 15	6 37	15 12	11 46	4 44
24	2 7 34	3 40	15 20	10 4	16 12	22 12	4 28	7 20	27 9	8 34	4 9
25	2 11 31	4 38	15 24	10 9	16 24	22 56	5 40	8 6	9m 0	5 4	3 23
26	2 15 27	5 37	15 27	10 14	16 36	23 39	6 52	8 56	20 48	1 22	2 29
27	2 19 24	6 35	15 31	10 19	16 48	24 22	8 4	9 48	2 38	2 24	1 28
28	2 23 21	7 33	15 35	10 24	17 0	25 5	9 16	10 45	14 33	6 6	0 23
29	2 27 17	8 31	15 38	10 29	17 12	25 48	10 28	11 43	26 36	9 36	0N 43
30	2 31 14	9 30	15 41	10 34	17 24	26 31	11 40	12 45	8m 49	12 44	1 48

	☉ Long.	♀ Long.	♂ Long.	♂ Long.	☉ Decl.	♂ Decl.	♂ Decl.	♂ Decl.	♂ Decl.	♀ Decl.	♂ Decl.
1	13 49	19 7	3 48	8 22	4N25	4N58	10s5	21N51	19s56	13N39	6N25
4	13 3	19 45	5 15	9 24	5 34	5 2	9 58	21 58	19 26	14 58	4 25
7	12 19	20 18	6 43	10 36	6 42	5 6	9 52	22 2	18 55	16 14	3 50
10	11 34	20 50	8 10	11 33	7 49	5 10	9 45	22 7	18 22	17 26	2 18
13	10 50	21 23	9 42	12 38	8 55	5 14	9 39	22 11	17 4	18 33	1 0
16	10 8	21 54	11 12	13 46	10 0	5 18	9 33	22 15	17 1	19 57	0 23
19	9 26	22 23	12 43	14 5	11 3	5 27	9 27	22 20	16 36	20 36	0 14
22	8 53	22 48	14 16	16 4	12 5	5 25	9 21	22 24	15 58	21 30	0 24
25	8 16	23 11	15 50	17 13	13 5	5 29	9 15	22 28	15 20	22 19	0 54
28	7 44	23 30	17 28	18 25	14 2	5 33	9 10	22 32	14 40	23 3	1 41

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

MAY, 1847.

M	☉'s	☽	♀	♂	♀	♂	♂	♂	♂	♂	♀	♀
D	Node.	Dec.	Dec.	Dec.	Dec.	Lat.	Lat.	Lat.	Lat.	Lat.	Lat.	Lat.
1	17 51	8 N 3	6 S 48	3 S 36	24 N 56	0 S 38	1 S 37	0 S 16	1 S 38	1 N 20	2 N 57	
7	17 32	8 0	6 20	3 11	25 16	0 38	1 39	0 15	1 44	1 34	2 59	
13	17 13	7 45	5 54	2 42	25 33	0 38	1 40	0 15	1 51	1 47	2 40	
19	16 53	7 22	5 28	2 16	25 48	0 39	1 42	0 14	1 58	1 56	2 8	
25	16 34	6 50	5 9	1 53	26 0	0 39	1 43	0 13	2 5	2 5	1 33	

	Right Asc. of M. C.	☉	♂	♂	♂	♂	♀	♀	♂	♀	♀
		Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Dec.	Lat.
1	h. m. s.	10 8 28	15 45	10 39	17 36	27 13	12 52	13 48	21 14	15 21	2 N 50
2	35 10	10 8 28	15 45	10 39	17 36	27 13	12 52	13 48	21 14	15 21	2 N 50
3	2 39 7	11 26 15	48 10	44 17	48 27	56 14	4 14	57 3	51 17	17 3	43
4	2 43 3	12 24 15	51 10	49 18	1 28	39 15	15 16	7 16	42 18	22 4	27
5	2 47 0	13 22 15	54 10	54 18	13 29	22 16	27 17	20 29	47 18	30 4	58
6	2 50 56	14 20 15	57 10	58 18	26 0	5 17	38 18	35 3	30 17	37 5	13
7	2 54 53	15 18 16	0 11	2 18	38 0	48 18	49 19	53 26	38 15	45 5	11
8	2 58 50	16 46 16	3 11	6 18	51 1	31 20	1 21	12 10	22 12	58 4	51
9	3 2 46	17 14 16	6 11	11 19	4 2	14 21	13 22	34 24	21 9	23 4	14
10	3 46 43	18 12 16	9 11	15 19	16 2	57 22	24 23	59 8	38 5	13 3	22
11	3 10 39	19 10 16	12 11	19 19	29 3	40 23	35 25	25 23	2 0	42 2	16
12	3 14 36	20 8 16	15 11	23 19	42 4	23 24	46 26	55 7	30 3	55 1	0
13	3 18 32	21 6 16	18 11	27 19	55 5	6 25	57 28	26 22	9 8	19 0	20
14	3 22 29	22 4 16	21 11	31 20	8 5	49 27	8 29	59 6	8 42	12 13	1
15	3 26 25	23 2 16	24 11	35 20	21 6	32 28	19 1	34 21	8 15	20 2	49
16	3 30 22	24 0 16	27 11	39 20	34 7	15 29	29 3	11 5	21 17	28 3	48
17	3 34 19	24 57 16	29 11	43 20	47 7	58 0	40 4	50 19	16 18	30 4	32
18	3 38 15	25 55 16	32 11	47 21	0 8	41 1	51 6	32 2	20 48	18 26	5
19	3 42 12	26 53 16	35 11	50 21	13 9	24 3	2 8	18 15	57 17	22 5	11
20	3 46 8	27 51 16	37 11	53 21	26 10	7 4	13 10	2 28	44 15	26 5	6
21	3 50 5	28 48 16	40 11	57 21	40 10	49 5	23 11	51 11	11 12	51 4	46
22	3 54 1	29 46 16	43 12	0 21	53 11	32 6	33 13	41 23	20 9	45 4	14
23	3 57 58	0 44 16	45 12	3 22	6 12	14 7	44 15	32 5	52 18	6 18	3
24	4 1 54	1 41 16	48 12	7 22	20 12	57 8	54 17	26 17	9 2	38 2	43
25	4 5 51	2 39 16	51 12	10 22	33 13	39 10	4 19	23 28	58 18	8 1	41
26	4 9 48	3 37 16	53 12	13 22	46 14	21 11	14 21	22 10	50 4	53 0	39
27	4 13 44	4 34 16	56 12	16 23	0 15	4 12	24 23	23 22	49 8	26 0	26
28	4 17 41	5 32 16	59 12	18 23	13 15	46 13	33 25	25 5	51 0	11 46	1
29	4 21 37	6 29 17	1 12	21 23	26 16	28 14	42 27	29 17	25 14	36 2	32
30	4 25 34	7 27 17	4 12	23 23	40 17	10 15	52 29	36 0	4 6	16 49	3
31	4 29 30	8 24 17	6 12	25 23	53 17	52 17	1 1	43 13	3 18	12 4	13
32	4 33 27	9 22 17	8 12	26 24	7 18	34 18	10 3	51 26	17 18	39 4	46

	☉	♀	♂	♀	♂	♂	♂	♂	♀	♀
	Long.	Long.	Long.	Long.	Dec.	Dec.	Dec.	Dec.	Dec.	Dec.
1	7 1	23 49	19 8	0 19	37	14 N 58	5 N 37	9 S 5	22 N 36	13 S 59
4	6 55	24 2	20 36	20 49	15 52	5 40	8 59	22 39	13 17	24 13
7	6 37	24 15	22 13	22 11	16 43	5 44	8 56	22 43	12 34	24 39
10	6 22	24 26	23 49	23 16	17 32	5 47	8 51	22 47	11 51	24 59
13	6 13	24 35	25 28	24 31	18 18	5 51	8 47	22 50	11 7	25 12
16	6 11	24 38	27 7	25 46	19 1	5 54	8 44	22 53	10 22	25 20
19	6 10	24 39	28 46	27 0	19 42	5 57	8 40	22 56	9 37	25 21
22	6 13	24 38	0 26	28 17	20 19	6 0	8 37	22 59	8 51	25 15
25	6 20	24 34	2 6	29 30	20 53	6 3	8 34	23 1	8 3	25 17
28	6 32	24 22	3 46	0 44	21 24	6 6	8 32	23 4	7 16	24 46

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

JUNE, 1847.

M	☉'s	☽	♀	♂	♀	♄	♅	♆	♁	♂	♀	♂
D	Node.	Dec.	Dec.	Dec.	Dec.	Lat.	Lat.	Lat.	Lat.	Lat.	Lat.	Lat.
1	16 12	6 N 6	4 s 47	1 s 32	23 N 10	0 s 39	1 N 44	0 s 13	2 s 12	2 N 10	0 N 9	
7	15 53	5 22	4 33	1 16	26 15	0 39	1 45	0 13	2 18	2 11	1 8	
13	15 34	4 33	4 22	1 3 26	18 0	39	1 47	0 12	2 25	2 8	1 47	
19	15 15	3 38	4 18	0 56	26 17	0 39	1 48	0 12	2 31	2 1	1 59	
25	14 56	2 41	4 18	0 53	26 12	0 39	1 49	0 11	2 36	1 50	1 46	

	Right Asc. of M. C.	☉	♄	♅	♆	♁	♂	♀	♂	♀	♂	♀
	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Dec.	Lat.	Lat.
1	h. m. s.	10 11 19	17 17 16	12 22 28	24 11 20	19 16 16	19 20 20	6 11 0	9 17 46	18 s 3	5 N 4	
2	4 41 20	11 17 17	17 12 31	24 33 19	58 20 29	8 11 23	27 16 25	5 4				
3	4 45 17	12 14 17	18 12 33	24 47 20	39 21 37	10 23 7	17 13 49	4 48				
4	4 49 13	13 11 17	19 12 35	25 1 21	22 45 12	34 21 15	10 25 4	14				
5	4 53 10	14 9 17	21 12 37	25 14 22	3 23 54	14 45 5	19 6 24	3 25				
6	4 57 6	15 6 17	23 12 39	25 28 22	4 25 2 16	58 19 26	2 0 2	22				
7	5 1 3	16 4 17	25 12 41	25 42 23	26 26 11	19 9 3	37 2 N 32	1 11				
8	5 4 59	17 1 17	27 12 43	25 56 24	8 27 19	21 21 17	48 6 56	0 s 4				
9	5 8 56	17 58 17	29 12 45	26 9 24	49 28 28	23 31 1 8	59 10 56	1 19				
10	5 12 52	18 56 17	31 12 46	26 23 25	31 29 37	25 40 16	7 14 18	2 29				
11	5 16 49	19 53 17	33 12 47	26 37 26	12 0 45	27 48 0	11 9 16	48 3 29				
12	5 20 46	20 50 17	35 12 48	26 50 26	53 1 53	29 54 14	1 18 16	4 16				
13	5 24 42	21 48 17	37 12 49	27 4 27	34 3 1 1	28 58 27	38 18 39	4 47				
14	5 28 39	22 45 17	39 12 50	27 17 28	14 4 9 4	1 16 25	59 17 59	5 2				
15	5 32 35	23 42 17	41 12 50	27 31 28	55 5 16	6 2 24	1 16 23	5 0				
16	5 36 32	24 40 17	42 12 51	27 45 29	36 6 24 8	0 6 8	43 14 1 4	44				
17	5 40 29	25 37 17	44 12 52	27 58 0	16 7 31 9	59 19 7 11	4 4 15					
18	5 44 25	26 34 17	46 12 53	28 12 0	57 8 38 11	52 1 16	7 42 3	34				
19	5 48 21	27 31 17	47 12 53	28 26 1	37 9 45 13	46 13 14	4 4 2	44				
20	5 52 18	28 29 17	49 12 53	28 39 2	18 10 52 15	34 25 4 0	18 1 48					
21	5 56 15	29 26 17	5 12 54	28 53 2	59 11 59 11	22 6 53	3 s 28	0 47				
22	6 0 11	0 23 17	52 12 54	29 7 3	39 13 6 19	8 18 46	7 0 N 16					
23	6 4 8	1 20 17	5 12 54	29 20 4	19 14 12 20	51 0 48	10 32 1	19				
24	6 8 4	2 18 17	5 12 55	29 34 5	0 15 18 22	32 13 3	33 2	19				
25	6 12 1	3 15 17	56 12 s 55	29 48 5	39 16 24 24	9 25 37	16 2 3	15				
26	6 15 57	4 12 17	57 12 55	0 22 1 6	18 17 30 25	45 8 31	17 46 4	1				
27	6 19 54	5 9 17	58 12 R 54	0 15 6	58 18 36 27	19 21 46	18 36 4	36				
28	6 23 50	6 6 17	59 12 54	0 29 7	37 19 41 28	51 5 22	18 24 4	57				
29	6 27 47	7 3 18	1 12 54	0 43 8	16 20 46 0	21 19 16	17 7 5	0				
30	6 31 44	8 1 18	2 12 53	0 57 8	55 21 51 1	48 3 22	14 47 4	46				

	☽	♀	♂	♀	☉	♄	♅	♆	♁	♂	♀	♂
	Long.	Long.	Long.	Long.	Decl.	Decl.	Decl.	Decl.	Decl.	Decl.	Decl.	Decl.
1	6 55 24	5 6 11	3 22 30	22 N 1	6 N 10	8 s 29	23 N 7	6 s 17	24 N 12	21 N 29		
4	7 18 23	R 49	7 46 3	47 22 24	6 12 8	27 23 9	5 30 23	41 22	59			
7	7 45 23	30 9	29 5 3	22 44	6 15 8	25 23 10	4 44 23	4 24	8			
10	8 16 23	8 11	12 6 21	23 0	6 17 8	25 23 12	3 57 22	22 24	53			
13	8 47 22	41 12	56 7 39	23 12	6 19 8	24 23 13	3 11 21	34 25	13			
16	9 22 22	13 14	39 8 58	23 21	6 21 8	24 23 14	2 25 20	42 25	8			
19	10 0 21	43 16	23 10 17	23 26	6 23 8	24 23 15	1 39 19	46 24	43			
22	10 43 21	10 18	8 11 3	23 27	6 25 8	24 23 16	0 54 18	45 24	0			
25	11 28 20	34 19	53 12 54	23 25	6 26 8	25 23 16	0 9 17	41 23	2			
28	12 16 19	55 21	39 14 13	23 19	6 28 8	26 23 17	0 N 35	16 33	21	53		

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

JULY, 1847.

M	☾'s	☾	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂
D	Node.	Dec.	Dec.	Dec.	Dec.	Lat.	Lat.	Lat.	Lat.	Lat.	Lat.	Lat.
1	14 37	1 N 32	4 s 25	0 s 55	26 N 5	0 s 39	1 s 51	0 s 11	2 s 42	1 N 34	1 N 10	
7	14 18	0 37	4 37	0 59	25 53	0 40	1 53	0 10	2 46	1 15	0 16	
13	13 59	0 29	4 54	1 8	25 39	0 40	1 55	0 9	2 51	0 50	0 s 53	
19	13 40	1 35	5 16	1 21	25 23	0 40	1 56	0 8	2 56	0 31	2 15	
25	13 21	2 43	5 43	1 38	25 4	0 40	1 57	0 8	2 57	0 s 13	3 33	

	Right Asc. of M. C.	☉	♂	♂	♂	♂	♀	♀	☾	☾	☾	☾	
		Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Decl.	Decl.	Lat.	
1	h. m. s.	8 58	18 37	3 12	52	1 21	11	9 34	22 56	3 14	17 37	11 s 32	4 N 13
2	6 35 40	8 58	18 37	3 12	52	1 24	10	12 24	0 4	35	1 56	7 36	3 25
3	6 39 37	9 55	18	4 12	R 51	1 24	10	12 24	0 4	35	1 56	7 36	3 25
4	6 43 33	10 52	18	5 12	50	1 38	10	51 25	4 5	55	16	13 3	14 2
5	6 47 30	11 49	18	6 12	49	1 52	11	30 26	9 7	12	0 27	1 N 18	1 14
6	6 51 26	12 47	18	7 12	48	2 5	12	8 27	13 8	27	14	35 5	45 0 s 0
7	6 55 22	13 44	18	8 12	47	2 19	12	46 28	16 9	40	28	36 9	50 1 14
8	6 59 19	14 41	18	9 12	46	2 33	13	24 29	19 10	49	12	30 13	20 2 2
9	7 3 16	15 38	18	10 12	45	2 46	14	2 0	21 11	55	26	16 16	4 3 22
10	7 7 13	16 35	18	11 12	44	3 0	14	40 1	25 12	59	9 54	17 51	4 9
11	7 11 9	17 33	18	12 12	42	3 14	15	18 2	28 14	0 23	21	18 36	4 41
12	7 15 6	18 30	18	12 12	40	3 27	15	56 3	31 14	59	6 36	18 20	4 58
13	7 19 2	19 27	18	13 12	39	3 40	16	33 4	33 15	54	19	38 17	5 4 59
14	7 22 59	20 24	18	14 12	37	3 53	17	10 5	35 16	45	2 25	15 1	4 45
15	7 26 55	21 22	18	14 12	35	4 7	17	47 6	36 17	34	14	57 12	16 4 1
16	7 30 52	22 19	18	15 12	33	4 20	18	23 7	37 18	19	27	14 9	2 3 37
17	7 34 49	23 16	18	15 12	30	4 33	19	0 8	38 19	0 9	18	5 29	2 49
18	7 38 45	24 13	18	16 12	28	4 46	19	36 9	39 19	37	21	13 1	45 1 53
19	7 42 42	25 11	18	16 12	26	5 0	20	12 10	39 20	10 3	1	2 s 0	0 53
20	7 46 38	26 8	18	16 12	23	5 13	20	48 11	40 20	39	14	49 5	42 0 N 10
21	7 50 35	27 5	18	16 12	21	5 27	21	24 12	39 21	4 26	41	9 10	1 12
22	7 54 32	28 3	18	17 12	19	5 40	21	59 13	38 21	26 8	14	12 19	2 13
23	7 58 28	29 0	18	17 12	16	5 53	22	34 14	37 21	40	21	0 15	0 3 8
24	8 2 24	29 57	18	17 12	14	6 7	23	9 15	36 21	53 3	36	17 2	3 55
25	8 6 21	0 54	18	17 12	11	6 20	23	44 16	34 21	59	16	37 18	16 4 32
26	8 10 17	1 52	18	17 12	8	6 33	24	18 17	32 22	1 0	7	2 18	32 4 56
27	8 14 14	2 49	18	17 12	6	6 46	24	51 18	29 21	R 57	13	52 17	43 5 3
28	8 18 11	3 46	18	17 12	3	6 59	25	24 19	25 21	48	28	5 15	48 4 51
29	8 22 7	4 44	18	17 11	59	7 12	25	57 20	22 21	34	12	35 12	51 4 22
30	8 26 4	5 41	18	17 11	56	7 25	26	30 21	18 21	16	27	15 9	5 3 34
31	8 30 0	6 39	18	16 11	52	7 38	27	2 22	13 20	52	11	57 4	44 2 32
32	8 33 57	7 36	18	16 11	48	7 51	27	35 23	8 20	23	26	36 0	7 1 20

	☾	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	Long.	Long.	Long.	Long.	Decl.	Decl.	Decl.	Decl.	Decl.	Decl.	Decl.	Decl.
1	13 16	7 19	16 23	15 32	23 N 9	6 N 29	8 s 26	23 N 17	1 N 19	15 N 23	20 N 36	
4	14 18	1 18	R 34	25 12	16 52	22 56	6 30	8 29	23 16	2 45	12 53	17 48
7	14 56	17 52	26 59	18 10	22 39	6 31	8 31	23 16	2 45	12 53	17 48	
10	15 54	17 24	28 11	19 3	22 18	6 32	8 33	23 15	3 26	11 35	16 22	
13	16 54	16 28	0 35	20 48	21 54	6 33	8 36	23 15	4 7	10 15	14 59	
16	17 56	15 46	2 33	22 8	21 27	6 33	8 39	23 14	4 46	9 54	13 41	
19	18 59	15 4	4 11	23 27	20 56	6 33	8 42	23 12	5 25	7 31	12 31	
22	20 54	14 21	5 59	24 47	20 22	6 33	8 45	23 11	6 2	6 8	11 33	
25	21 11	13 40	7 47	26 7	19 46	6 33	8 49	23 9	6 39	4 44	10 50	
28	22 20	13 3	9 3	27 28	19 6	6 33	8 53	23 8	7 14	3 21	10 25	

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

AUGUST, 1847.

M D	☉'s Node.	☾ Dec.	♂ Dec.	♀ Dec.	♀ Dec.	♂ Lat.	♂ Lat.	♂ Lat.	♂ Lat.	♀ Lat.	♀ Lat.
1	12 58	4 s 4	6 s 19	2 s 3	24 N 38	0 s 40	1 s 58	0 s 9	3 s 2	0 s 58	4 s 43
7	12 39	5 13	6 52	2 29	24 14	0 40	2 0	0 7	3 4	1 42	4 50
13	12 20	6 24	7 29	2 58	23 45	0 40	2 2	0 6	3 5	2 29	3 54
19	12 1	7 34	8 6	3 31	23 15	0 41	2 2	0 5	3 6	2 1	2 16
25	11 42	8 43	8 44	4 7	22 43	0 41	2 3	0 5	3 7	1 22	0 32

	Right Asc. of M. C.	☉ Long.	♂ Long.	♂ Long.	♂ Long.	♂ Long.	♀ Long.	♀ Long.	☉ Long.	☉ Dec.	☉ Lat.
h. m. s.											
1	8 37 53	8 33	18 16	11 45	8 3	28 8	24 3	19 5	11 5	4 N 27	0 N 4
2	8 41 50	9 31	18 16	11 42	8 16	28 41	24 56	19 14	25 22	8 42	1 s 12
3	8 45 46	10 28	18 15	11 38	8 28	29 13	25 49	18 33	9 8	24 12	2 22
4	8 49 43	11 26	18 14	11 35	8 40	29 44	26 42	17 50	23 11	15 19	3 23
5	8 53 40	12 23	18 14	11 32	8 53	0 8	15 27	34 17	5 6	11 17	20 4
6	8 57 36	13 21	18 13	11 28	9 5	0 46	28 26	16 18	20 4	18 22	4 44
7	9 1 33	14 18	18 12	11 24	9 17	1 16	29 17	15 29	3 23	11 18	23 5
8	9 5 29	15 16	18 11	11 20	9 29	1 46	0 6	14 42	16 5	17 27	5 4
9	9 9 26	16 13	18 10	11 16	9 41	2 16	0 56	13 55	28 47	15 40	4 51
10	9 13 22	17 11	18 9	11 12	9 53	2 45	1 45	13 10	11 16	13 10	4 25
11	9 17 19	18 9	18 8	11 8	10 5	3 14	2 33	12 29	23 34	10 7	3 46
12	9 21 15	19 6	18 8	11 4	10 17	3 43	3 20	11 51	5 41	6 41	2 57
13	9 25 12	20 4	18 7	11 0	10 29	4 11	4 7	11 17	17 38	3 2	2 1
14	9 29 9	21 2	18 6	10 56	10 41	4 37	4 52	10 49	29 0	43 1	0
15	9 33 5	21 59	18 5	10 52	10 53	5 4	5 37	10 26	11 15	4 25	0 3
16	9 37 2	22 57	18 4	10 48	11 5	5 31	6 21	10 10	23 2	7 56	1 6
17	9 40 58	23 55	18 3	10 44	11 16	5 57	7 4	10 2	4 53	11 10	2 7
18	9 44 55	24 52	18 2	10 40	11 28	6 23	7 46	10 0	16 54	13 58	3 4
19	9 48 51	25 50	18 1	10 36	11 39	6 49	8 27	10 6	29 9	16 12	3 53
20	9 52 48	26 48	18 0	10 32	11 51	7 14	9 7	10 19	11 44	17 43	4 32
21	9 56 44	27 46	18 58	10 28	12 2	7 39	9 46	10 40	24 43	18 23	4 59
22	10 0 41	28 44	18 57	10 23	12 13	8 3	10 23	11 9	8 8	18 3	5 10
23	10 4 38	29 41	18 56	10 19	12 24	8 26	10 59	11 46	22 2	16 39	5 4
24	10 8 34	30 39	18 55	10 14	12 35	8 50	11 34	12 30	6 22	14 11	4 39
25	10 12 31	1 37	18 53	10 9	12 46	9 13	12 8	13 21	21 4	10 46	3 56
26	10 16 27	2 35	18 52	10 5	12 57	9 36	12 41	14 20	6 0	6 36	2 56
27	10 20 24	3 33	18 51	10 0	13 8	9 58	13 13	15 26	21 3	1 59	1 43
28	10 24 20	4 31	18 49	9 55	13 19	10 18	13 43	16 37	6 4	2 N 45	0 22
29	10 28 17	5 29	18 48	9 51	13 30	10 38	14 12	17 55	20 53	7 15	0 s 58
30	10 32 13	6 27	18 47	9 46	13 41	10 58	14 39	19 18	5 8	26 11	2 14
31	10 36 10	7 25	18 46	9 41	13 52	11 17	15 42	20 47	19 39	14 27	3 20

	☉ Long.	♀ Long.	♂ Long.	♀ Long.	☉ Dec.	♂ Dec.	♂ Dec.	♂ Dec.	♂ Dec.	♀ Dec.	♀ Dec.
1	23 56	12 15	11 57	29 14	18 N 8	6 N 33	8 s 59	23 N 5	7 N 59	1 N 29	10 N 25
4	25 8	11 42	13 45	0 35	17 22	6 32	9 32	3 8	31 0	6 10	50
7	26 22	11 13	15 32	1 55	16 33	6 31	9 8	23 1	9 2	1 s 16	11 35
10	27 37	10 46	17 19	3 15	15 42	6 30	9 13	22 58	9 32	2 37	12 34
13	28 54	10 22	19 6	4 35	14 48	6 29	9 18	22 56	10 0	3 56	13 39
16	Om 2	10 120	54 5	56 13	53 6	28 9	23 22	53 10	27 5	13 14	41
19	1 31	9 45	22 41	7 1	12 55	6 27	9 28	22 51	10 52	6 27	15 33
22	2 50	9 32	24 28	8 35	11 56	6 25	9 31	22 48	11 1	7 38	16 7
25	4 7	9 21	26 14	9 54	10 54	6 24	9 39	22 45	11 38	8 46	16 19
28	5 25	9 13	28 0	11 14	9 52	6 22	9 44	22 42	11 58	9 49	16 4

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

SEPTEMBER, 1847.

M D	☉'s Node.	☾ Dec.	♀ Dec.	♂ Dec.	♀ Dec.	♄ Lat.	♅ Lat.	♆ Lat.	♁ Lat.	♀ Lat.	♂ Lat.
1	11 20	10 s 3	9 s 28	4 s 53	22 N 4	0 s 41	2 s 2	0 s 6	3 s 5	5 s 25	1 N 0
7	11 11	10 10	5 5	35 21	28 0	41 2	2 0	5 3	2 6	21 1	41
13	10 42	12 16	10 41	6 20	20 52	0 41	2 2	0 4	2 59	7 13	1 49
19	10 23	13 20	11 15	7 8	20 15	0 41	2 3	0 4	2 52	8 3	1 44
25	10 4	14 22	11 47	7 56	19 38	0 41	2 3	0 3	2 44	8 17	1 2

	Right Asc. of M. C.	☉ Long.	♄ Long.	♅ Long.	♆ Long.	♁ Long.	♀ Long.	♂ Long.	☉ Long.	☉ Dec.	☉ Lat.
1	h. m. s.	8m 23	17 42	9 36	14 23	3 11	8 36	15 28	22 20	3 11	31
2	10 44	3 9	21 17	41 9	32 14	14 11	54 15	50 23	58 17	2 18	2
3	10 48	0 10	20 17	40 9	28 14	24 12	11 16	9 25	39 0	13 18	5 8
4	10 51	56 11	18 17	38 9	23 14	34 12	29 16	27 27	23 13	7 17	37 5
5	10 55	53 12	16 17	36 9	19 14	44 12	45 16	44 29	10 25	45 16	4 5
6	10 59	49 13	14 17	34 9	14 14	54 13	1 16	58 0	ny 59	8 10	13 47
7	11 3	46 14	13 17	32 9	9 15	4 13	15 17	11 2	50 20	24 10	55 3
8	11 7	42 15	11 17	30 9	5 15	14 13	29 17	22 4	42 2	ny 29	7 37
9	11 11	39 16	9 17	28 9	1 15	23 13	42 17	29 6	35 14	26 4	3 2
10	11 15	35 17	8 17	26 8	56 15	33 13	54 17	34 8	29 26	17 0	21 1
11	11 19	32 18	6 17	24 8	52 15	42 14	5 17	37 10	23 8	5 3	21 0
12	11 23	29 19	5 17	22 8	48 15	51 14	16 17	38 12	16 19	51 6	55 0
13	11 27	25 20	3 17	20 8	43 16	0 14	28 17	39 14	10 1	ny 39	10 13
14	11 31	22 21	1 17	17 8	39 16	9 14	36 17	38 16	4 13	32 13	7 2
15	11 35	18 22	0 17	15 8	34 16	18 14	46 17	32 17	57 25	33 15	29 3
16	11 39	15 22	58 17	13 8	30 16	26 14	54 17	24 19	50 7	↑ 48	17 12
17	11 43	11 23	57 17	10 8	26 16	35 15	2 17	14 21	42 20	21 18	8 4
18	11 47	8 24	56 17	8 8	22 16	44 15	8 17	3 23	33 3	ny 15	18 10
19	11 51	4 25	54 17	6 8	17 16	53 15	13 16	49 25	23 16	34 17	13 5
20	11 55	1 26	53 17	3 8	14 17	1 15	17 16	30 27	12 0	ny 20	15 15
21	11 58	58 27	52 17	1 8	9 17	8 15	21 16	9 29	1 14	34 12	19 4
22	12 2	54 28	51 16	59 8	5 17	16 15	24 15	47 0	49 29	13 8	31 3
23	12 6	51 29	49 16	56 8	1 17	24 15	27 15	23 2	36 14	ny 11	4 7
24	12 10	47 0	48 16	54 7	57 17	32 15	28 14	57 4	22 29	22 0	N 38
25	12 14	44 1	47 16	52 7	52 17	40 15	28 14	29 6	7 14	ny 35	5 20
26	12 18	40 2	46 16	49 7	48 17	47 15	27 13	59 7	50 29	41 9	40 1
27	12 22	37 3	45 16	47 7	44 17	55 15	26 13	28 9	33 14	8 37	13 19
28	12 26	33 4	44 16	45 7	40 18	2 15	25 12	55 11	15 29	0 16	2 4
29	12 30	30 5	43 16	42 7	36 18	9 15	22 12	22 12	57 13	ny 11	47 41
30	12 34	27 6	42 16	40 7	32 18	16 15	18 11	48 14	37 26	41 18	15 5

	☉ Long.	♀ Long.	♂ Long.	♀ Long.	☉ Dec.	♄ Dec.	♅ Dec.	♆ Dec.	♁ Dec.	♀ Dec.	♂ Dec.
1	7 m 24	9 8	0 20	13 2	8 N 25	6 N 19	9 s 52	22 N 38	12 N 23	11 s 5	15 N 1
4	8 48	9 9	2 5	14 21	7 20	6 17	9 57	22 35	12 40	11 56	13 43
7	10 12	9 13	3 50	15 41	6 13	6 15	10 2	22 32	12 55	12 39	12 2
10	11 37	9 20	5 33	16 59	5 5	6 13	10 7	22 29	13 9	13 14	10 4
13	13 4	9 31	7 15	18 18	3 57	6 10	10 13	22 26	13 21	13 40	7 54
16	14 31	9 47	8 57	19 36	2 47	6 8	10 18	22 23	13 31	13 55	5 36
19	15 58	10 5	10 38	20 53	1 38	6 5	10 22	22 20	13 40	13 58	3 15
22	17 26	10 26	12 18	22 9	0 28	6 3	10 27	22 18	13 46	13 48	0 53
25	18 56	10 50	13 57	22 25	0 s 43	6 0	10 32	22 15	13 52	13 25	1 s 29
28	20 26	11 17	15 36	24 41	1 53	6 57	10 36	22 12	13 55	13 48	3 47

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

OCTOBER, 1847.

M D	☉'s Node.	☽ Dec.	♀ Dec.	♂ Dec.	♀ Dec.	♂ Lat.	♀ Lat.	♂ Lat.	♀ Lat.	♂ Lat.	♀ Lat.
1	9 45	15 s 22	12 s 16	8 s 47	18 N 58	0 s 41	2 s 2	0 s 5	2 s 34	8 s 15	0 N 24
7	9 26	16 18 12	42 9 39	18 20 0	41 2 2	0 2 2	2 2 2	7 33	0 s 18		
13	9 7	17 12 13	6 10 30	17 42 0	41 2 1	0 1 2	6 6	24 1	0		
19	8 48	18 3 13	26 11 23	17 4 0	41 2 1	0 1 49	5 7	1 39			
25	8 29	18 51 13	44 12 14	16 27 0	31 2 0	0 1 1	27 3	42 2	13		

	Right Asc. of M. C.	☉ Long.	♂ Long.	♀ Long.	♂ Long.	♀ Long.	♂ Long.	♀ Long.	☉ Dec.	♂ Dec.	♀ Dec.
1	h. m. s.	7 41	16 38	7 49	18 23	15 8 13	10 12	16 17	9 53	17 N 48	5 s 18
2	12 42 20	8 40	16 R 35	7 R 25	18 30 15	D 7 11 R 35	17 56	22 43	16 26	5 10	
7	12 46 16	9 39	16 33	7 21	18 36 14	59 9 58	19 34	5 14	14 19	4 47	
13	12 50 13	10 38	16 31	7 18	18 42 14	50 9 20	21 11	17 29	11 36	4 12	
19	12 54 9	11 37	16 28	7 15	18 48 14	42 8 44	22 47	29 33	8 25	3 26	
25	12 58 6	12 36	16 26	7 11	18 54 14	33 8 24	22 11	28 4	56 2	31	
1	13 2 2	13 36	16 24	7 8	19 0 14	23 7 33	25 57	23 18	1 17	1 31	
7	13 5 59	14 35	16 21	7 5	19 6 14	12 6 59	27 31	5 5	3 s 26	0 26	
13	13 9 55	15 34	16 19	7 2	19 12 14	1 6 25	29 46	52 6	2 0	N 39	
19	13 13 52	16 34	16 17	6 59	19 17 13	48 5 51	0 m 37	28 42	9 25	1 43	
25	13 17 49	17 33	16 15	6 56	19 22 13	35 5 18	2 9	10 m 35	12 26	2 43	
1	12 13 21 45	18 33	16 13	6 53	19 27 13	22 4 49	3 39	22 35	14 57	3 36	
7	13 25 42	19 32	16 10	6 50	19 32 13	7 4 22	5 10	4 4	16 50	4 20	
13	13 29 38	20 32	16 7	6 47	19 36 12	50 3 57	6 40	17 4	17 58	4 53	
19	13 33 35	21 31	16 5	6 45	19 41 12	33 3 36	8 9	29 39	18 15	5 12	
25	13 37 31	22 31	16 2	6 42	19 45 12	15 3 16	9 37	12 31	17 37	5 17	
1	13 41 28	23 30	16 0	6 40	19 49 11	57 2 57	11 4	25 44	16 1	5 5	
7	13 45 24	24 30	15 57	6 37	19 53 11	39 2 40	12 31	9 20	13 30	4 36	
13	13 49 21	25 30	15 55	6 35	19 57 11	21 2 25	13 57	23 19	10 8	3 50	
19	13 53 18	26 29	15 53	6 32	20 0 11	3 2 13	15 22	7 43	6 5	2 48	
25	13 57 14	27 29	15 51	6 30	20 4 10	44 2 3	16 47	22 28	1 33	1 34	
1	14 1 11	28 29	15 48	6 28	20 7 10	24 1 57	18 10	7 28	3 N 10	0 13	
7	14 5 7	29 28	15 46	6 26	20 10 10	4 1 56	19 33	22 38	7 43	1 s 11	
13	14 9 4	0 m 28	15 44	6 24	20 13 9	44 1 D 56	20 56	7 46	11 46	2 29	
19	14 13 0	1 28	15 41	6 22	20 15 9	24 1 57	22 16	22 44	15 0	3 36	
25	14 16 57	2 28	15 39	6 21	20 18 9	3 1 58	23 36	7 24	17 10	4 27	
1	14 20 53	3 28	15 37	6 20	20 20 8	42 2 0	24 55	21 39	18 12	5 0	
7	14 24 50	4 28	15 34	6 19	20 23 8	22 2 3	26 13	5 27	18 7	5 14	
13	14 28 47	5 28	15 32	6 18	20 25 8	1 2 11	27 29	18 46	17 0	5 17	
19	14 32 43	6 28	15 29	6 17	20 27 7	41 2 23	28 44	1 39	15 4	4 52	
25	14 36 40	7 28	15 27	6 16	20 29 7	20 2 40	29 57	14 10	12 27	4 19	

	☉ Long.	♀ Long.	♂ Long.	♀ Long.	☉ Dec.	♂ Dec.	♀ Dec.	♂ Dec.	♀ Dec.	♂ Dec.	♀ Dec.
1	21 m 56	11 34	17 15	25 56	3 s 3	5 N 55	10 s 40	22 N 10	13 N 57	12 s 0	6 s 2
4	23 27 12	17 18	53 27	10 4 13	5 52	10 44	22 7	13 57	11 2	8 13	
7	24 57 12	50 20	30 28	25 5 22	5 49	10 47	22 5	13 55	9 58	10 18	
10	26 29 13	27 22	6 29	40 6 31	5 46	10 50	22 3	13 51	8 50	12 18	
13	28 0 14	7 23	39 0 55	7 39	5 44	10 53	22 1	13 47	7 43	14 11	
16	29 33 14	49 25	11 2	9 8	46 5	41 10	56	22 0	13 40	6 39	15 57
19	1 6 15	32 26	42 3	22 9	52 5	38 10	58	21 58	13 33	5 40	17 36
22	2 39 16	19 28	12 4	34 10	56 5	35 11	0 21	57 13	24 4	50 19	7
25	4 13 17	8 29	42 5	46 12	0 5	33 11	2 21	56 13	15 4	9 20	29
28	5 47 18	0 1 m	1 6	57 13	1 5	30 11	3 21	56 13	5 3	37 21	41

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

NOVEMBER, 1847.

M D	 s Node.	 Dec.	 Dec.	 Dec.	 Dec.	 Lat.	 Lat.	 Lat.	 Lat.	 Lat.	 Lat.
1	8 $\frac{1}{2}$ 6	19 s 41	14 s 0	13 s 13	15 N 46	0 s 41	1 s 59	0 N 2	1 s 2	2 s 10	2 s 41
7	7 47	20 20	14 10	14 2	15 12	0 41	1 58	0 3	0 41	1 9	2 27
13	7 28	20 55	14 15	14 4	14 41	0 40	1 57	0 4	0 20	0 0	2 42
19	7 7	21 26	14 19	15 35	14 11	0 40	1 57	0 4	0 0	0 N 50	1 42
25	6 50	21 52	14 18	16 16	13 46	0 40	1 56	0 5	0 N 17	1 30	0 N 40

[illegible]

	☉	♀	♂	♀	☉	♂	♂	♀	♂	♀	♂
	Long.	Long.	Long.	Long.	Dec.	Dec.	Dec.	Dec.	Dec.	Dec.	Dec.
1	7 52	19 10	3 2	8 30	14 20	5 26	11 8	4 21	12 52	3 10	23 1
4	9 26	19 59	4 25	9 34	15 17	5 24	11 5	5 21	12 42	3 12	23 46
7	11 1	20 53	5 46	10 40	16 12	5 22	11 5	5 21	12 33	3 12	23 18
10	12 37	21 51	7 5	11 47	17 4	5 20	11 4	5 21	12 25	3 8	24 34
13	14 13	22 51	8 20	12 50	17 54	5 18	11 4	5 21	12 18	3 23	24 32
16	15 48	23 53	9 34	13 53	18 40	5 16	11 3	5 21	12 13	3 45	24 20
19	17 24	24 56	10 45	14 56	19 24	5 14	11 2	5 21	12 9	4 13	23 9
22	19 0	25 59	11 55	15 56	20 5	5 12	11 0	5 22	12 8	4 59	21 33
25	20 36	27 4	13 6	16 56	20 42	5 10	10 58	5 22	12 8	5 25	20 25
28	22 11	27 48	13 51	17 36	21 16	5 9	10 55	5 22	12 10	6 7	18 43

SIMMONITE'S ASTRONOMICAL EPHEMERIS.

DECEMBER, 1847.

M D	☉ Node.	☽ Dec.	♂ Dec.	♀ Dec.	♀ Dec.	♄ Lat.	♅ Lat.	♆ Lat.	♁ Lat.	♀ Lat.	♂ Lat.
1	6 ^h 31	22 s 13	14 s 4	17 s 26	13 N 5	0 s 41	1 s 55	0 N 6	0 N 31	2 N 2	2 N 18
7	6 ^h 12	22 30 13	52	17 53 12	51	0 41	1 54	0 7	0 44	2 26	2 44
13	5 53	22 42 13	36	18 13 12	41	0 40	1 53	0 8	0 56	2 4	2 21
19	5 34	22 48 13	17	18 23 12	36	0 40	1 52	0 9	1 6	2 5	1 38
25	5 15	22 51 12	53	18 26 12	37	0 39	1 51	0 10	1 13	2 59	1 19

	Right Asc. of M. C.	☉ Long.	♈ Long.	♉ Long.	♊ Long.	♋ Long.	♌ Long.	♍ Long.	♎ Long.	♏ Long.	♐ Long.	♑ Dec.	♒ Lat.
	<i>h. m. s.</i>												
1	16 38 53	8 43	14 34	6 35	19 40	0 8 46	22 34	27 24	28 31	0 s 11	0 s 50		
2	16 42 49	9 44	14 32	6 37	19 35	0 46 23	27 26	41 10	17 3	53	0 N 12		
3	16 46 46	10 45	14 31	6 40	19 30	0 46 24	21 26	R 9 22	5 7	27	1 15		
4	16 50 43	11 46	14 30	6 42	19 25	0 ^d 47 25	17 25	48 3 ^m 58	10 45	2 14			
5	16 54 39	12 47	14 30	6 45	19 20	0 48 26	14 25	39 16	1 13	38	3 8		
6	16 58 36	13 48	14 29	6 47	19 15	0 50 27	11 25 ^d 41	28 15	15 58	3 55			
7	17 2 32	14 49	14 28	6 50	19 9	0 54 28	9 25	51 10	† 43	17	36	4	30
8	17 6 29	15 50	14 28	6 53	19 4	0 58 29	8 26	13 23	23 18	24	4	53	
9	17 10 25	16 51	14 27	6 56	18 58	1 3 0 ^m	7 26	40 6 ^h 18	11 17	5 2			
10	17 14 22	17 52	14 26	6 59	18 52	1 8 1	6 27	16 19	25 17	11 4	55		
11	17 18 18	18 53	14 26	7 2	18 48	1 14 2	6 28	1 2 ^h 43	15 9	4 32			
12	17 22 15	19 54	14 25	7 5	18 40	1 21 3	7 28	50 16	12 12	17 3	53		
13	17 26 12	20 55	14 24	7 8	18 34	1 28 4	7 29	44 29	50 8	42	3 1		
14	17 30 8	21 56	14 24	7 12	18 28	1 37 5	7 0	† 41 13	38 4	37 1	58		
15	17 34 5	22 57	14 23	7 15	18 21	1 46 6	8 1	42 27	36 0	N 14	0 47		
16	17 38 1	23 58	14 22	7 19	18 14	1 56 7	10 2	48 11	34 4	13 0	28		
17	17 41 58	24 59	14 22	7 23	18 7	2 6 8	12 3	58 25	29 8	28 1	42		
18	17 45 54	26 0	14 21	7 26	18 0	2 17 9	15 5	11 10	8 23	12 16	2 49		
19	17 49 51	27 2	14 21	7 30	17 53	2 28 10	17 6	24 24	49 15	20 3	46		
20	17 53 47	28 3	14 21	7 34	17 46	2 40 11	20 7	39 9	Π 14	17 26	4 29		
21	17 57 44	29 4	14 20	7 38	17 39	2 53 12	23 8	57 23	31 18	25 4	54		
22	18 1 41	30 5	14 20	7 42	17 31	3 6 13	27 10	16 7	35 18	14 5	0		
23	18 5 37	1 6	14 20	7 46	17 24	3 20 14	31 11	37 21	19 17	0 4	49		
24	18 9 34	2 7	14 s 20	7 50	17 16	3 35 15	35 12	57 4	8 40	14 51	4 23		
25	18 13 30	3 8	14 20	7 54	17 9	3 50 16	40 14	20 17	39 12	1 3	43		
26	18 17 27	4 9	14 20	7 58	17 1	4 5 17	46 15	46 0	14 8	42 2	53		
27	18 21 23	5 11	14 20	8 4	16 54	4 21 18	52 17	10 12	31 5	5 1	56		
28	18 25 20	6 12	14 20	8 9	16 46	4 37 19	58 18	36 24	33 1	2 0	55		
29	18 29 16	7 13	14 ^d 21	8 14	16 38	4 54 21	4 20	2 6	24 2 s	26 0	9		
30	18 33 13	8 14	14 21	8 19	16 30	5 11 22	10 21	29 18	12 6	4 1	9		
31	18 37 10	9 15	14 21	8 24	16 22	5 29 23	16 22	57 0 ^m 1	9 29	2 9			

	☉ Long.	♀ Long.	♂ Long.	♀ Long.	☉ Dec.	♄ Dec.	♅ Dec.	♆ Dec.	♁ Dec.	♀ Dec.	♂ Dec.
1	23 ^h 47	29 ^h 18	15 ^h 14	18 ^h 52	21 s 46	5 N 8	10 s 53	22 N 7	12 N 15	6 s 53	17 s 22
4	25 24	0 ^h 27	16 12	19 42	22 13	5 7	10 50	22 9	12 21	7 41	16 39
7	27 2	1 36	17 9	20 33	22 35	5 6	10 46	22 12	12 30	8 33	16 35
10	28 39	2 46	18 5	21 21	22 54	5 5	10 43	22 15	12 40	9 25	17 2
13	0 ^h 17	3 58	18 57	22 9	23 9	5 4	10 39	22 18	12 52	10 20	17 49
16	1 53	5 10	19 43	22 56	23 19	5 4	10 34	22 21	13 6	11 15	18 46
19	3 29	6 24	20 28	23 37	23 25	5 3	10 30	22 24	13 22	12 10	19 47
22	5 5	7 39	21 8	24 18	23 27	5 3	10 25	22 28	13 39	13 5	20 47
25	6 41	8 55	21 44	24 58	23 25	5 3	10 20	22 31	13 57	13 59	21 42
28	8 18	10 12	22 14	25 34	23 19	5 4	10 14	22 34	14 16	14 53	22 32