

FOR 0<sup>h</sup> TERRESTRIAL TIME

Date 0 <sup>h</sup> TT	Apparent		Apparent				True Dist.	Horiz. Parallax	Semi- diameter	Ephemeris Transit for date					
	Long.	Lat.	R.A.	Dec.						Upper	Lower				
	°	°	h	m	s	°	'	"	'	"	h	h			
<b>Jan. 0</b>	53-40	+4-55	3	19	05-97	+23	01	30-7	58-402	58	51-97	16	02-06	21-5313	09-0442
<b>1</b>	67-41	+4-94	4	18	48-81	+26	25	02-0	58-706	58	33-68	15	57-08	22-5332	10-0291
<b>2</b>	81-29	+5-03	5	20	34-29	+28	10	28-9	59-119	58	09-17	15	50-41	23-5396	11-0386
<b>3</b>	94-96	+4-83	6	22	26-09	+28	10	39-5	59-634	57	39-02	15	42-19	...	12-0309
<b>4</b>	108-37	+4-37	7	22	14-58	+26	30	29-4	60-234	57	04-57	15	32-81	00-5081	12-9680
<b>5</b>	121-48	+3-68	8	18	25-91	+23	25	06-9	60-886	56	27-86	15	22-81	01-4087	13-8297
<b>6</b>	134-28	+2-82	9	10	25-56	+19	14	41-8	61-549	55	51-36	15	12-87	02-2316	14-6157
<b>7</b>	146-76	+1-84	9	58	30-61	+14	19	21-4	62-174	55	17-69	15	03-70	02-9838	15-3383
<b>8</b>	158-97	+0-79	10	43	28-95	+8	56	22-5	62-711	54	49-30	14	55-97	03-6815	16-0160
<b>9</b>	170-97	-0-28	11	26	22-02	+3	19	32-4	63-114	54	28-29	14	50-24	04-3443	16-6691
<b>10</b>	182-82	-1-32	12	08	15-25	-2	20	11-1	63-346	54	16-28	14	46-98	04-9927	17-3179
<b>11</b>	194-62	-2-31	12	50	14-40	-7	53	27-3	63-384	54	14-36	14	46-45	05-6470	17-9827
<b>12</b>	206-46	-3-20	13	33	24-50	-13	11	10-4	63-216	54	23-01	14	48-81	06-3273	18-6832
<b>13</b>	218-42	-3-96	14	18	48-43	-18	03	07-6	62-848	54	42-09	14	54-00	07-0528	19-4380
<b>14</b>	230-58	-4-55	15	07	22-23	-22	16	48-9	62-304	55	10-77	15	01-82	07-8404	20-2610
<b>15</b>	243-04	-4-94	15	59	44-53	-25	36	51-8	61-620	55	47-50	15	11-82	08-7001	21-1566
<b>16</b>	255-82	-5-11	16	55	59-73	-27	45	45-0	60-848	56	29-97	15	23-39	09-6286	22-1128
<b>17</b>	268-98	-5-01	17	55	21-85	-28	26	33-9	60-048	57	15-14	15	35-69	10-6049	23-1001
<b>18</b>	282-49	-4-63	18	56	14-82	-27	27	40-0	59-283	57	59-47	15	47-76	11-5934	...
<b>19</b>	296-33	-3-97	19	56	41-02	-24	47	08-4	58-613	58	39-29	15	58-61	12-5576	00-0804
<b>20</b>	310-44	-3-06	20	55	05-35	-20	34	15-1	58-084	59	11-34	16	07-34	13-4747	01-0227
<b>21</b>	324-72	-1-95	21	50	44-80	-15	07	06-8	57-727	59	33-30	16	13-32	14-3408	01-9137
<b>22</b>	339-10	-0-70	22	43	49-92	-8	48	31-4	57-551	59	44-21	16	16-29	15-1673	02-7579
<b>23</b>	353-49	+0-59	23	35	08-62	-2	02	23-9	57-546	59	44-50	16	16-37	15-9737	03-5716
<b>24</b>	7-82	+1-85	0	25	48-20	+4	48	09-8	57-688	59	35-70	16	13-97	16-7830	04-3765
<b>25</b>	22-05	+2-98	1	17	01-54	+11	21	22-1	57-944	59	19-93	16	09-68	17-6175	05-1958
<b>26</b>	36-16	+3-92	2	09	55-77	+17	16	24-1	58-281	58	59-32	16	04-06	18-4949	06-0500
<b>27</b>	50-11	+4-62	3	05	19-26	+22	13	09-2	58-674	58	35-63	15	57-61	19-4228	06-9526
<b>28</b>	63-90	+5-04	4	03	24-74	+25	52	50-9	59-104	58	10-05	15	50-65	20-3928	07-9038
<b>29</b>	77-52	+5-17	5	03	34-07	+28	00	16-4	59-561	57	43-24	15	43-34	21-3787	08-8860
<b>30</b>	90-95	+5-02	6	04	18-46	+28	27	13-3	60-042	57	15-48	15	35-78	22-3441	09-8662
<b>31</b>	104-18	+4-59	7	03	45-04	+27	15	10-2	60-545	56	46-95	15	28-01	23-2572	10-8086
<b>Feb. 1</b>	117-18	+3-94	8	00	18-16	+24	35	02-1	61-065	56	17-95	15	20-11	...	11-6883
<b>2</b>	129-95	+3-09	8	53	08-29	+20	43	51-9	61-591	55	49-07	15	12-25	00-1016	12-4976
<b>3</b>	142-49	+2-11	9	42	14-55	+16	00	38-2	62-107	55	21-28	15	04-68	00-8774	13-2428
<b>4</b>	154-81	+1-04	10	28	10-38	+10	43	09-5	62-585	54	55-88	14	57-76	01-5958	13-9385
<b>5</b>	166-92	-0-06	11	11	47-22	+5	06	42-4	62-995	54	34-42	14	51-92	02-2732	14-6023
<b>6</b>	178-88	-1-14	11	54	03-67	-0	36	02-3	63-302	54	18-53	14	47-59	02-9281	15-2529
<b>7</b>	190-72	-2-17	12	36	00-23	-6	14	21-9	63-473	54	09-80	14	45-21	03-5792	15-9092
<b>8</b>	202-53	-3-10	13	18	37-35	-11	38	32-4	63-477	54	09-59	14	45-15	04-2452	16-5896
<b>9</b>	214-36	-3-90	14	02	54-27	-16	38	43-6	63-294	54	18-96	14	47-70	04-9445	17-3120
<b>10</b>	226-31	-4-54	14	49	46-23	-21	03	53-0	62-917	54	38-51	14	53-03	05-6940	18-0919
<b>11</b>	238-45	-5-00	15	39	57-57	-24	40	57-4	62-351	55	08-25	15	01-13	06-5068	18-9388
<b>12</b>	250-86	-5-23	16	33	49-56	-27	14	46-3	61-621	55	47-47	15	11-81	07-3874	19-8509
<b>13</b>	263-62	-5-21	17	31	05-29	-28	29	19-7	60-766	56	34-55	15	24-63	08-3267	20-8111
<b>14</b>	276-78	-4-92	18	30	41-49	-28	10	51-7	59-845	57	26-83	15	38-87	09-3000	21-7890
<b>15</b>	290-37	-4-35	19	31	00-55	-26	11	58-6	58-926	58	20-59	15	53-52	10-2741	22-7520

FOR 0<sup>h</sup> TERRESTRIAL TIME

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	Long.	Lat.	R.A.	Dec.						Upper	Lower				
	°	°	h	m	s	°	'	"	'	"	h	h			
<b>Feb. 15</b>	290-37	-4-35	19	31	00-55	-26	11	58-6	58-926	58	20-59	15	53-52	10-2741	22-7520
<b>16</b>	304-36	-3-51	20	30	23-71	-22	34	48-3	58-085	59	11-24	16	07-31	11-2204	23-6782
<b>17</b>	318-72	-2-43	21	27	46-25	-17	31	26-2	57-397	59	53-86	16	18-92	12-1252	...
<b>18</b>	333-36	-1-17	22	22	52-95	-11	21	45-5	56-919	60	24-02	16	27-13	12-9909	00-5622
<b>19</b>	348-17	+0-19	23	16	11-86	-4	30	18-2	56-688	60	38-77	16	31-15	13-8320	01-4134
<b>20</b>	3-02	+1-54	0	08	38-19	+2	36	33-2	56-712	60	37-24	16	30-73	14-6685	02-2495
<b>21</b>	17-79	+2-77	1	01	18-46	+9	32	32-7	56-969	60	20-83	16	26-26	15-5218	03-0918
<b>22</b>	32-37	+3-82	1	55	16-62	+15	52	42-6	57-416	59	52-64	16	18-59	16-4094	03-9604
<b>23</b>	46-71	+4-60	2	51	19-85	+21	14	10-8	57-997	59	16-62	16	08-78	17-3401	04-8693
<b>24</b>	60-74	+5-09	3	49	42-29	+25	17	11-5	58-657	58	36-64	15	57-89	18-3084	05-8206
<b>25</b>	74-47	+5-28	4	49	51-10	+27	46	54-9	59-344	57	55-89	15	46-79	19-2919	06-8002
<b>26</b>	87-89	+5-17	5	50	26-86	+28	35	54-0	60-022	57	16-62	15	36-09	20-2582	07-7793
<b>27</b>	101-03	+4-80	6	49	46-86	+27	45	46-9	60-666	56	40-19	15	26-17	21-1767	08-7248
<b>28</b>	113-91	+4-18	7	46	22-03	+25	26	39-4	61-260	56	07-18	15	17-18	22-0303	09-6121
<b>Mar. 1</b>	126-55	+3-38	8	39	23-90	+21	54	08-0	61-800	55	37-74	15	09-16	22-8169	10-4316
<b>2</b>	138-99	+2-42	9	28	48-65	+17	25	45-0	62-284	55	11-82	15	02-10	23-5456	11-1876
<b>3</b>	151-24	+1-36	10	15	05-21	+12	18	23-0	62-709	54	49-39	14	55-99	...	11-8927
<b>4</b>	163-35	+0-26	10	59	00-43	+6	47	04-3	63-069	54	30-61	14	50-88	00-2311	12-5630
<b>5</b>	175-32	-0-85	11	41	28-54	+1	04	53-2	63-354	54	15-91	14	46-87	00-8905	13-2158
<b>6</b>	187-20	-1-91	12	23	25-65	-4	36	39-0	63-547	54	05-97	14	44-17	01-5412	13-8686
<b>7</b>	199-03	-2-88	13	05	47-43	-10	06	55-7	63-630	54	01-74	14	43-01	02-2003	14-5383
<b>8</b>	210-84	-3-73	13	49	27-87	-15	15	30-6	63-581	54	04-26	14	43-70	02-8847	15-2412
<b>9</b>	222-70	-4-42	14	35	17-05	-19	51	24-0	63-379	54	14-59	14	46-51	03-6097	15-9916
<b>10</b>	234-65	-4-93	15	23	56-17	-23	42	27-8	63-011	54	33-63	14	51-70	04-3880	16-7995
<b>11</b>	246-78	-5-22	16	15	48-73	-26	35	16-5	62-470	55	01-96	14	59-42	05-2261	17-6669
<b>12</b>	259-14	-5-29	17	10	49-22	-28	15	50-0	61-765	55	39-64	15	09-68	06-1202	18-5838
<b>13</b>	271-82	-5-10	18	08	15-32	-28	31	26-0	60-920	56	25-98	15	22-30	07-0545	19-5288
<b>14</b>	284-87	-4-64	19	06	53-12	-27	13	28-2	59-976	57	19-29	15	36-82	08-0033	20-4748
<b>15</b>	298-35	-3-92	20	05	19-07	-24	20	01-6	58-992	58	16-64	15	52-44	08-9408	21-3995
<b>16</b>	312-28	-2-95	21	02	29-01	-19	57	04-8	58-043	59	13-85	16	08-02	09-8501	22-2929
<b>17</b>	326-64	-1-77	21	57	57-23	-14	18	01-7	57-209	60	05-63	16	22-12	10-7285	23-1587
<b>18</b>	341-38	-0-44	22	51	58-40	-7	42	20-0	56-571	60	46-31	16	33-20	11-5854	...
<b>19</b>	356-40	+0-94	23	45	17-43	-0	34	03-5	56-192	61	10-93	16	39-91	12-4380	00-0109
<b>20</b>	11-56	+2-27	0	38	55-79	+6	39	33-3	56-108	61	16-43	16	41-41	13-3070	00-8692
<b>21</b>	26-69	+3-44	1	33	57-23	+13	29	41-9	56-320	61	02-55	16	37-63	14-2112	01-7537
<b>22</b>	41-66	+4-35	2	31	11-75	+19	27	59-6	56-797	60	31-77	16	29-25	15-1614	02-6804
<b>23</b>	56-32	+4-96	3	30	56-36	+24	09	03-3	57-481	59	48-61	16	17-49	16-1540	03-6534
<b>24</b>	70-60	+5-25	4	32	37-49	+27	13	39-2	58-297	58	58-32	16	03-79	17-1663	04-6597
<b>25</b>	84-45	+5-21	5	34	49-09	+28	31	59-1	59-175	58	05-86	15	49-50	18-1629	05-6689
<b>26</b>	97-88	+4-89	6	35	37-93	+28	05	25-8	60-048	57	15-15	15	35-69	19-1093	06-6440
<b>27</b>	110-92	+4-33	7	33	25-99	+26	05	10-1	60-867	56	28-91	15	23-10	19-9856	07-5568
<b>28</b>	123-63	+3-56	8	27	21-20	+22	48	09-0	61-599	55	48-66	15	12-13	20-7886	08-3959
<b>29</b>	136-05	+2-64	9	17	21-07	+18	32	43-5	62-224	55	15-02	15	02-97	21-5280	09-1654
<b>30</b>	148-25	+1-62	10	03	58-14	+13	35	52-0	62-735	54	48-00	14	55-61	22-2195	09-8787
<b>31</b>	160-29	+0-53	10	48	02-89	+8	12	14-1	63-134	54	27-24	14	49-96	22-8808	10-5528
<b>Apr. 1</b>	172-22	-0-56	11	30	32-14	+2	34	24-4	63-425	54	12-26	14	45-88	23-5299	11-2058
<b>2</b>	184-08	-1-62	12	12	23-22	-3	06	25-5	63-612	54	02-66	14	43-26	...	11-8552

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	Long.	Lat.	R.A.	Dec.						Upper	Lower	
	°	°	h	m	s	°	'	"	'	"	h	h
<b>Apr. 1</b>	172-22	-0-56	11 30	32-14		+ 2 34	24-4	63-425	54 12-26	14 45-88	23-5299	11-2058
<b>2</b>	184-08	-1-62	12 12	23-22		- 3 06	25-5	63-612	54 02-66	14 43-26	...	11-8552
<b>3</b>	195-90	-2-61	12 54	31-71		- 8 39	39-9	63-700	53 58-21	14 42-05	00-1838	12-5178
<b>4</b>	207-72	-3-48	13 37	50-27		-13 54	36-6	63-685	53 58-96	14 42-26	00-8590	13-2093
<b>5</b>	219-58	-4-20	14 23	06-59		-18 39	53-8	63-562	54 05-22	14 43-96	01-5703	13-9434
<b>6</b>	231-51	-4-75	15 10	59-00		-22 43	11-1	63-322	54 17-52	14 47-31	02-3297	14-7297
<b>7</b>	243-54	-5-09	16 01	48-71		-25 51	16-1	62-955	54 36-52	14 52-49	03-1435	15-5704
<b>8</b>	255-73	-5-20	16 55	30-40		-27 50	53-8	62-453	55 02-84	14 59-66	04-0092	16-4578
<b>9</b>	268-11	-5-08	17 51	26-08		-28 30	26-4	61-816	55 36-88	15 08-93	04-9135	17-3733
<b>10</b>	280-75	-4-71	18 48	29-92		-27 42	04-4	61-054	56 18-58	15 20-28	05-8341	18-2930
<b>11</b>	293-71	-4-10	19 45	27-08		-25 23	36-3	60-188	57 07-15	15 33-51	06-7475	19-1960
<b>12</b>	307-05	-3-25	20 41	18-71		-21 39	03-9	59-261	58 00-80	15 48-13	07-6373	20-0715
<b>13</b>	320-79	-2-19	21 35	39-56		-16 38	05-5	58-328	58 56-49	16 03-29	08-4991	20-9214
<b>14</b>	334-98	-0-96	22 28	41-40		-10 34	56-9	57-460	59 49-89	16 17-84	09-3402	21-7578
<b>15</b>	349-57	+0-36	23 21	06-11		- 3 47	59-0	56-737	60 35-67	16 30-31	10-1767	22-5997
<b>16</b>	4-52	+1-68	0 13	54-89		+ 3 20	22-9	56-232	61 08-32	16 39-20	11-0296	23-4691
<b>17</b>	19-70	+2-91	1 08	16-50		+10 23	40-4	56-003	61 23-27	16 43-27	11-9206	...
<b>18</b>	34-96	+3-93	2 05	12-75		+16 52	13-7	56-081	61 18-17	16 41-88	12-8663	00-3859
<b>19</b>	50-12	+4-66	3 05	17-75		+22 15	36-6	56-458	60 53-61	16 35-19	13-8704	01-3616
<b>20</b>	65-01	+5-07	4 08	12-94		+26 06	57-0	57-093	60 12-95	16 24-12	14-9149	02-3897
<b>21</b>	79-51	+5-13	5 12	32-86		+28 08	35-9	57-920	59 21-36	16 10-07	15-9607	03-4406
<b>22</b>	93-55	+4-89	6 16	04-14		+28 16	35-8	58-859	58 24-54	15 54-59	16-9630	04-4698
<b>23</b>	107-10	+4-37	7 16	37-05		+26 40	44-5	59-831	57 27-62	15 39-09	17-8902	05-4371
<b>24</b>	120-19	+3-64	8 12	53-39		+23 39	45-4	60-765	56 34-61	15 24-65	18-7332	06-3220
<b>25</b>	132-87	+2-75	9 04	38-79		+19 34	54-2	61-608	55 48-18	15 12-01	19-4999	07-1251
<b>26</b>	145-23	+1-75	9 52	25-71		+14 45	33-6	62-321	55 09-83	15 01-56	20-2078	07-8600
<b>27</b>	157-33	+0-69	10 37	10-26		+ 9 27	39-8	62-886	54 40-11	14 53-46	20-8766	08-5458
<b>28</b>	169-27	-0-38	11 19	56-11		+ 3 54	01-5	63-296	54 18-87	14 47-68	21-5264	09-2027
<b>29</b>	181-10	-1-42	12 01	46-71		- 1 44	35-1	63-555	54 05-58	14 44-06	22-1759	09-8500
<b>30</b>	192-90	-2-40	12 43	42-54		- 7 18	14-9	63-675	53 59-46	14 42-39	22-8427	10-5061
<b>May 1</b>	204-72	-3-27	13 26	40-12		-12 36	52-0	63-671	53 59-69	14 42-46	23-5429	11-1877
<b>2</b>	216-58	-4-00	14 11	30-34		-17 29	22-8	63-556	54 05-55	14 44-05	...	11-9098
<b>3</b>	228-54	-4-56	14 58	54-21		-21 43	22-5	63-342	54 16-51	14 47-04	00-2896	12-6830
<b>4</b>	240-60	-4-92	15 49	15-24		-25 05	14-4	63-036	54 32-29	14 51-34	01-0903	13-5110
<b>5</b>	252-79	-5-06	16 42	29-37		-27 21	09-9	62-643	54 52-85	14 56-93	01-9439	14-3870
<b>6</b>	265-13	-4-97	17 37	58-18		-28 19	05-2	62-162	55 18-34	15 03-88	02-8377	15-2928
<b>7</b>	277-66	-4-64	18 34	33-17		-27 51	06-6	61-593	55 48-96	15 12-22	03-7491	16-2034
<b>8</b>	290-39	-4-08	19 30	55-18		-25 55	21-8	60-941	56 24-81	15 21-98	04-6529	17-0957
<b>9</b>	303-37	-3-29	20 26	00-70		-22 36	16-5	60-215	57 05-60	15 33-09	05-5304	17-9567
<b>10</b>	316-65	-2-32	21 19	20-64		-18 03	19-5	59-438	57 50-41	15 45-30	06-3750	18-7864
<b>11</b>	330-26	-1-19	22 11	04-15		-12 29	22-5	58-644	58 37-43	15 58-10	07-1925	19-5956
<b>12</b>	344-24	+0-05	23 01	51-66		- 6 09	40-6	57-881	59 23-77	16 10-72	07-9980	20-4026
<b>13</b>	358-59	+1-30	23 52	44-73		+ 0 38	03-0	57-211	60 05-53	16 22-10	08-8124	21-2304
<b>14</b>	13-28	+2-50	0 44	56-27		+ 7 32	48-2	56-698	60 38-17	16 30-99	09-6595	22-1025
<b>15</b>	28-23	+3-55	1 39	39-82		+14 09	31-5	56-402	60 57-27	16 36-19	10-5616	23-0384
<b>16</b>	43-32	+4-36	2 37	52-83		+19 59	23-1	56-366	60 59-56	16 36-81	11-5332	...
<b>17</b>	58-39	+4-86	3 39	50-67		+24 32	22-4	56-609	60 43-90	16 32-55	12-5702	00-0448

FOR 0<sup>h</sup> TERRESTRIAL TIME

Date 0 <sup>h</sup> TT	Apparent		Apparent				True Dist.	Horiz. Parallax	Semi- diameter	Ephemeris Transit for date		
	Long.	Lat.	R.A.	Dec.						Upper	Lower	
	°	°	h	m	s	°	'	"	'	"	h	h
<b>May 17</b>	58-39	+4-86	3 39	50-67	+24 32 22.4	56-609	60	43-90	16	32-55	12-5702	00-0448
<b>18</b>	73-27	+5-03	4 44	38-84	+27 22 54.3	57-113	60	11-67	16	23-77	13-6419	01-1046
<b>19</b>	87-82	+4-86	5 50	09-09	+28 17 04.3	57-837	59	26-52	16	11-47	14-6982	02-1753
<b>20</b>	101-94	+4-40	6 53	41-92	+27 17 10.5	58-711	58	33-38	15	57-00	15-6912	03-2048
<b>21</b>	115-58	+3-70	7 53	13-07	+24 39 36.6	59-661	57	37-47	15	41-77	16-5960	04-1552
<b>22</b>	128-75	+2-82	8 47	51-63	+20 47 37.2	60-608	56	43-41	15	27-05	17-4121	05-0144
<b>23</b>	141-48	+1-82	9 37	52-83	+16 04 15.0	61-486	55	54-80	15	13-81	18-1545	05-7912
<b>24</b>	153-86	+0-77	10 24	10-08	+10 48 41.6	62-242	55	14-05	15	02-71	18-8445	06-5047
<b>25</b>	165-96	-0-30	11 07	51-36	+5 15 47.2	62-840	54	42-50	14	54-12	19-5039	07-1767
<b>26</b>	177-88	-1-33	11 50	06-45	-0 22 57.6	63-261	54	20-65	14	48-16	20-1539	07-8288
<b>27</b>	189-71	-2-30	12 32	02-21	-5 57 51.3	63-502	54	08-31	14	44-80	20-8139	08-4815
<b>28</b>	201-51	-3-17	13 14	41-24	-11 19 36.2	63-570	54	04-83	14	43-86	21-5021	09-1534
<b>29</b>	213-36	-3-90	13 59	00-79	-16 18 08.5	63-484	54	09-23	14	45-05	22-2341	09-8618
<b>30</b>	225-31	-4-47	14 45	49-28	-20 41 49.4	63-267	54	20-36	14	48-09	23-0208	10-6202
<b>31</b>	237-40	-4-84	15 35	39-00	-24 17 13.6	62-946	54	37-01	14	52-62	23-8649	11-4360
<b>June 1</b>	249-64	-4-99	16 28	35-04	-26 49 54.3	62-544	54	58-05	14	58-35	...	12-3059
<b>2</b>	262-06	-4-91	17 24	05-28	-28 06 22.3	62-084	55	22-51	15	05-01	00-7566	13-2137
<b>3</b>	274-65	-4-59	18 21	00-74	-27 57 00.7	61-580	55	49-68	15	12-41	01-6738	14-1332
<b>4</b>	287-43	-4-04	19 17	53-38	-26 18 43.3	61-045	56	19-06	15	20-42	02-5884	15-0366
<b>5</b>	300-40	-3-27	20 13	25-78	-23 15 45.6	60-485	56	50-35	15	28-94	03-4760	15-9055
<b>6</b>	313-56	-2-32	21 06	55-31	-18 58 24.8	59-907	57	23-26	15	37-90	04-3250	16-7352
<b>7</b>	326-95	-1-22	21 58	21-45	-13 40 35.9	59-319	57	57-36	15	47-19	05-1373	17-5334
<b>8</b>	340-57	-0-03	22 48	18-86	-7 37 55.5	58-738	58	31-77	15	56-56	05-9258	18-3171
<b>9</b>	354-46	+1-18	23 37	46-00	-1 06 58.6	58-187	59	05-02	16	05-62	06-7102	19-1081
<b>10</b>	8-61	+2-35	0 27	55-06	+5 34 14.2	57-700	59	34-93	16	13-76	07-5140	19-9309
<b>11</b>	23-02	+3-38	1 20	03-20	+12 05 13.4	57-319	59	58-72	16	20-24	08-3617	20-8088
<b>12</b>	37-63	+4-21	2 15	20-94	+18 02 06.1	57-087	60	13-33	16	24-22	09-2741	21-7582
<b>13</b>	52-37	+4-77	3 14	32-33	+22 57 58.7	57-044	60	16-08	16	24-97	10-2604	22-7784
<b>14</b>	67-11	+5-01	4 17	26-26	+26 25 57.5	57-214	60	05-32	16	22-04	11-3078	23-8428
<b>15</b>	81-72	+4-92	5 22	34-51	+28 05 21.2	57-602	59	41-05	16	15-43	12-3766	...
<b>16</b>	96-08	+4-52	6 27	26-12	+27 48 43.0	58-187	59	05-02	16	05-62	13-4137	00-9023
<b>17</b>	110-09	+3-85	7 29	26-32	+25 44 38.5	58-928	58	20-46	15	53-48	14-3772	01-9063
<b>18</b>	123-68	+2-98	8 26	57-74	+22 13 35.8	59-764	57	31-46	15	40-14	15-2507	02-8252
<b>19</b>	136-84	+1-97	9 19	39-05	+17 40 11.2	60-630	56	42-20	15	26-72	16-0404	03-6550
<b>20</b>	149-59	+0-89	10 08	04-89	+12 27 03.4	61-457	55	56-40	15	14-24	16-7643	04-4092
<b>21</b>	162-00	-0-20	10 53	17-55	+6 52 22.8	62-186	55	17-03	15	03-52	17-4446	05-1085
<b>22</b>	174-14	-1-27	11 36	27-68	+1 09 58.8	62-771	54	46-15	14	55-11	18-1035	05-7754
<b>23</b>	186-08	-2-26	12 18	45-40	-4 29 22.8	63-178	54	24-97	14	49-34	18-7617	06-4314
<b>24</b>	197-93	-3-14	13 01	17-41	-9 56 25.3	63-391	54	13-96	14	46-34	19-4391	07-0969
<b>25</b>	209-77	-3-89	13 45	05-98	-15 01 54.1	63-411	54	12-94	14	46-07	20-1536	07-7907
<b>26</b>	221-68	-4-48	14 31	06-66	-19 35 24.9	63-250	54	21-22	14	48-32	20-9195	08-5294
<b>27</b>	233-71	-4-87	15 20	02-37	-23 24 40.9	62-934	54	37-64	14	52-79	21-7448	09-3246
<b>28</b>	245-92	-5-04	16 12	13-00	-26 15 38.9	62-494	55	00-70	14	59-07	22-6263	10-1793
<b>29</b>	258-35	-4-99	17 07	22-82	-27 53 54.0	61-969	55	28-64	15	06-68	23-5469	11-0833
<b>30</b>	271-01	-4-69	18 04	34-29	-28 07 28.0	61-398	55	59-60	15	15-11	...	12-0131
<b>July 1</b>	283-90	-4-14	19 02	18-83	-26 50 12.1	60-817	56	31-74	15	23-87	00-4782	12-9385
<b>2</b>	297-01	-3-37	19 59	05-53	-24 03 57.8	60-253	57	03-47	15	32-51	01-3912	13-8341

FOR 0<sup>h</sup> TERRESTRIAL TIME

Date	Apparent		Apparent				True	Horiz.	Semi-	Ephemeris Transit	
0 <sup>h</sup> TT	Long.	Lat.	R.A.	Dec.		Dist.	Parallax	diameter	for date		
	°	°	h m s	° ' "			' "	' "	h	h	
<b>July 1</b>	283-90	-4-14	19 02 18-83	-26 50 12-1	60-817	56 31-74	15 23-87	00-4782	12-9385		
<b>2</b>	297-01	-3-37	19 59 05-53	-24 03 57-8	60-253	57 03-47	15 32-51	01-3912	13-8341		
<b>3</b>	310-33	-2-41	20 53 52-02	-19 58 16-5	59-729	57 33-53	15 40-70	02-2662	14-6875		
<b>4</b>	323-82	-1-29	21 46 19-73	-14 47 57-6	59-256	58 01-08	15 48-20	03-0987	15-5012		
<b>5</b>	337-49	-0-09	22 36 50-73	- 8 50 24-8	58-841	58 25-66	15 54-90	03-8970	16-2884		
<b>6</b>	351-31	+1-14	23 26 15-70	- 2 23 49-4	58-485	58 46-97	16 00-70	04-6782	17-0691		
<b>7</b>	5-28	+2-31	0 15 41-94	+ 4 13 18-7	58-192	59 04-73	16 05-54	05-4641	17-8662		
<b>8</b>	19-39	+3-36	1 06 23-97	+10 41 42-8	57-968	59 18-43	16 09-27	06-2785	18-7035		
<b>9</b>	33-62	+4-21	1 59 34-06	+16 40 27-7	57-825	59 27-23	16 11-67	07-1436	19-6006		
<b>10</b>	47-93	+4-80	2 56 07-76	+21 46 34-0	57-780	59 29-99	16 12-42	08-0750	20-5664		
<b>11</b>	62-28	+5-09	3 56 21-32	+25 36 06-3	57-854	59 25-45	16 11-18	09-0725	21-5896		
<b>12</b>	76-59	+5-06	4 59 27-50	+27 47 57-4	58-062	59 12-65	16 07-69	10-1126	22-6354		
<b>13</b>	90-78	+4-72	6 03 31-30	+28 09 40-6	58-415	58 51-22	16 01-86	11-1515	23-6555		
<b>14</b>	104-76	+4-11	7 06 05-53	+26 42 15-8	58-906	58 21-74	15 53-83	12-1428	...		
<b>15</b>	118-46	+3-26	8 05 09-71	+23 39 52-2	59-517	57 45-81	15 44-04	13-0570	00-6104		
<b>16</b>	131-83	+2-25	8 59 48-14	+19 24 28-3	60-211	57 05-84	15 33-16	13-8884	01-4827		
<b>17</b>	144-85	+1-15	9 50 07-79	+14 19 27-1	60-942	56 24-76	15 21-97	14-6477	02-2760		
<b>18</b>	157-53	+0-01	10 36 54-84	+ 8 45 27-6	61-655	55 45-59	15 11-30	15-3539	03-0062		
<b>19</b>	169-92	-1-10	11 21 12-54	+ 2 59 04-0	62-297	55 11-12	15 01-91	16-0279	03-6936		
<b>20</b>	182-06	-2-14	12 04 08-24	- 2 46 48-5	62-818	54 43-65	14 54-43	16-6905	04-3594		
<b>21</b>	194-02	-3-07	12 46 48-00	- 8 21 41-5	63-179	54 24-92	14 49-33	17-3617	05-0238		
<b>22</b>	205-89	-3-87	13 30 14-69	-13 36 10-6	63-351	54 16-02	14 46-90	18-0599	05-7063		
<b>23</b>	217-75	-4-49	14 15 26-33	-18 20 36-6	63-324	54 17-42	14 47-29	18-8015	06-4244		
<b>24</b>	229-69	-4-93	15 03 12-11	-22 24 04-2	63-099	54 29-03	14 50-45	19-5985	07-1926		
<b>25</b>	241-77	-5-16	15 54 04-19	-25 33 53-5	62-695	54 50-09	14 56-18	20-4544	08-0193		
<b>26</b>	254-06	-5-15	16 48 05-86	-27 36 12-4	62-144	55 19-29	15 04-14	21-3601	08-9021		
<b>27</b>	266-62	-4-90	17 44 41-18	-28 17 53-0	61-488	55 54-72	15 13-79	22-2937	09-8252		
<b>28</b>	279-47	-4-40	18 42 36-47	-27 29 39-9	60-778	56 33-92	15 24-46	23-2257	10-7617		
<b>29</b>	292-62	-3-66	19 40 20-63	-25 09 14-9	60-067	57 14-10	15 35-41	...	11-6829		
<b>30</b>	306-06	-2-70	20 36 36-52	-21 22 34-8	59-405	57 52-34	15 45-82	00-1311	12-5692		
<b>31</b>	319-76	-1-57	21 30 44-75	-16 22 47-5	58-835	58 25-97	15 54-98	00-9969	13-4151		
<b>Aug. 1</b>	333-68	-0-32	22 22 48-92	-10 27 43-3	58-386	58 52-94	16 02-33	01-8249	14-2284		
<b>2</b>	347-75	+0-96	23 13 26-70	- 3 57 31-4	58-072	59 12-05	16 07-53	02-6276	15-0253		
<b>3</b>	1-94	+2-19	0 03 36-98	+ 2 46 50-5	57-893	59 23-07	16 10-53	03-4241	15-8269		
<b>4</b>	16-18	+3-29	0 54 28-65	+ 9 24 09-2	57-837	59 26-50	16 11-47	04-2364	16-6553		
<b>5</b>	30-43	+4-20	1 47 10-43	+15 32 51-9	57-888	59 23-36	16 10-61	05-0860	17-5303		
<b>6</b>	44-65	+4-84	2 42 38-28	+20 50 58-1	58-029	59 14-70	16 08-25	05-9895	18-4638		
<b>7</b>	58-80	+5-18	3 41 17-12	+24 56 39-3	58-246	59 01-43	16 04-64	06-9521	19-4521		
<b>8</b>	72-85	+5-21	4 42 40-34	+27 30 38-8	58-533	58 44-09	15 59-92	07-9600	20-4711		
<b>9</b>	86-77	+4-94	5 45 21-45	+28 20 17-8	58-886	58 22-97	15 54-16	08-9800	21-4814		
<b>10</b>	100-51	+4-38	6 47 15-68	+27 23 35-7	59-305	57 58-21	15 47-42	09-9706	22-4440		
<b>11</b>	114-04	+3-59	7 46 26-67	+24 50 07-0	59-788	57 30-09	15 39-76	10-8992	23-3354		
<b>12</b>	127-33	+2-61	8 41 46-26	+20 57 50-7	60-328	56 59-20	15 31-35	11-7527	...		
<b>13</b>	140-36	+1-51	9 33 03-39	+16 08 06-8	60-909	56 26-60	15 22-47	12-5352	00-1521		
<b>14</b>	153-13	+0-36	10 20 48-97	+10 41 30-0	61-505	55 53-76	15 13-53	13-2611	00-9041		
<b>15</b>	165-65	-0-79	11 05 55-86	+ 4 55 48-8	62-084	55 22-51	15 05-01	13-9490	01-6086		
<b>16</b>	177-93	-1-88	11 49 24-78	- 0 54 16-4	62-605	54 54-84	14 57-48	14-6181	02-2847		

FOR 0<sup>h</sup> TERRESTRIAL TIME

Date 0 <sup>h</sup> TT	Apparent		Apparent				True Dist.	Horiz. Parallax	Semi- diameter	Ephemeris Transit for date						
	Long.	Lat.	R.A.	Dec.						Upper	Lower					
	°	°	h	m	s	°	'	"	'	"	h	h				
<b>Aug. 16</b>	177-93	-1-88	11	49	24-78	-	0	54	16-4	62-605	54	54-84	14	57-48	14-6181	02-2847
<b>17</b>	190-02	-2-87	12	32	17-25	-	6	36	38-5	63-029	54	32-69	14	51-44	15-2872	02-9515
<b>18</b>	201-97	-3-73	13	15	32-69	-	12	00	47-4	63-316	54	17-82	14	47-39	15-9742	03-6274
<b>19</b>	213-83	-4-42	14	00	06-69	-	16	56	46-5	63-436	54	11-66	14	45-72	16-6951	04-3295
<b>20</b>	225-69	-4-92	14	46	48-19	-	21	14	15-1	63-367	54	15-23	14	46-69	17-4631	05-0726
<b>21</b>	237-62	-5-21	15	36	13-65	-	24	41	50-0	63-099	54	29-05	14	50-45	18-2854	05-8673
<b>22</b>	249-70	-5-27	16	28	37-82	-	27	07	04-4	62-639	54	53-05	14	56-99	19-1597	06-7166
<b>23</b>	261-99	-5-10	17	23	43-81	-	28	17	29-4	62-009	55	26-50	15	06-10	20-0721	07-6125
<b>24</b>	274-57	-4-69	18	20	39-69	-	28	02	43-3	61-248	56	07-87	15	17-37	20-9990	08-5354
<b>25</b>	287-49	-4-03	19	18	09-21	-	26	17	14-1	60-406	56	54-77	15	30-14	21-9154	09-4599
<b>26</b>	300-78	-3-13	20	14	56-19	-	23	02	21-9	59-548	57	43-99	15	43-55	22-8039	10-3638
<b>27</b>	314-45	-2-04	21	10	09-82	-	18	26	42-5	58-741	58	31-62	15	56-52	23-6595	11-2356
<b>28</b>	328-47	-0-79	22	03	37-34	-	12	45	01-9	58-048	59	13-51	16	07-93	...	12-0769
<b>29</b>	342-78	+0-53	22	55	41-79	-	6	16	33-7	57-524	59	45-88	16	16-74	00-4895	12-8994
<b>30</b>	357-30	+1-83	23	47	11-72	+	0	36	32-8	57-203	60	05-99	16	22-22	01-3091	13-7213
<b>31</b>	11-94	+3-03	0	39	09-46	+	7	30	23-2	57-097	60	12-74	16	24-06	02-1385	14-5633
<b>Sept. 1</b>	26-59	+4-02	1	32	39-75	+	14	00	11-7	57-192	60	06-70	16	22-42	02-9980	15-4446
<b>2</b>	41-15	+4-75	2	28	36-30	+	19	41	14-4	57-460	59	49-88	16	17-84	03-9044	16-3777
<b>3</b>	55-54	+5-18	3	27	24-17	+	24	10	10-9	57-860	59	25-07	16	11-08	04-8639	17-3612
<b>4</b>	69-71	+5-28	4	28	40-63	+	27	07	28-2	58-349	58	55-17	16	02-93	05-8663	18-3751
<b>5</b>	83-63	+5-07	5	31	07-47	+	28	20	48-0	58-891	58	22-66	15	54-08	06-8826	19-3838
<b>6</b>	97-28	+4-57	6	32	49-79	+	27	48	10-2	59-456	57	49-38	15	45-02	07-8742	20-3501
<b>7</b>	110-67	+3-83	7	31	58-01	+	25	38	15-8	60-025	57	16-48	15	36-05	08-8091	21-2499
<b>8</b>	123-80	+2-90	8	27	25-19	+	22	07	28-0	60-587	56	44-58	15	27-37	09-6722	22-0768
<b>9</b>	136-70	+1-85	9	18	57-24	+	17	35	24-4	61-136	56	14-01	15	19-04	10-4651	22-8389
<b>10</b>	149-38	+0-71	10	07	00-59	+	12	21	23-8	61-666	55	45-04	15	11-15	11-2002	23-5514
<b>11</b>	161-86	-0-44	10	52	23-78	+	6	42	41-7	62-167	55	18-05	15	03-80	11-8947	...
<b>12</b>	174-15	-1-55	11	36	03-78	+	0	54	09-0	62-627	54	53-68	14	57-16	12-5668	00-2324
<b>13</b>	186-28	-2-57	12	18	58-63	-	4	51	25-1	63-026	54	32-85	14	51-49	13-2341	00-8999
<b>14</b>	198-28	-3-47	13	02	04-19	-	10	22	34-5	63-339	54	16-67	14	47-08	13-9135	01-5713
<b>15</b>	210-18	-4-21	13	46	12-38	-	15	28	34-2	63-539	54	06-43	14	44-29	14-6201	02-2625
<b>16</b>	222-03	-4-77	14	32	08-72	-	19	58	41-4	63-598	54	03-41	14	43-47	15-3665	02-9877
<b>17</b>	233-88	-5-12	15	20	27-88	-	23	41	49-5	63-492	54	08-79	14	44-94	16-1606	03-7573
<b>18</b>	245-78	-5-25	16	11	26-55	-	26	26	25-8	63-206	54	23-50	14	48-94	17-0026	04-5759
<b>19</b>	257-82	-5-16	17	04	55-70	-	28	01	10-8	62-734	54	48-08	14	55-64	17-8836	05-4392
<b>20</b>	270-06	-4-83	18	00	16-99	-	28	16	22-8	62-084	55	22-51	15	05-01	18-7857	06-3334
<b>21</b>	282-58	-4-27	18	56	29-45	-	27	05	51-0	61-281	56	06-03	15	16-87	19-6874	07-2378
<b>22</b>	295-45	-3-48	19	52	27-40	-	24	28	29-7	60-368	56	56-93	15	30-73	20-5717	08-1325
<b>23</b>	308-72	-2-49	20	47	21-86	-	20	28	56-1	59-404	57	52-39	15	45-84	21-4309	09-0044
<b>24</b>	322-43	-1-32	21	40	54-67	-	15	17	11-6	58-461	58	48-42	16	01-10	22-2686	09-8519
<b>25</b>	336-57	-0-04	22	33	20-60	-	9	08	02-7	57-617	59	40-11	16	15-17	23-0975	10-6831
<b>26</b>	351-12	+1-28	23	25	21-09	-	2	20	32-0	56-948	60	22-17	16	26-63	23-9357	11-5141
<b>27</b>	5-98	+2-54	0	17	54-62	+	4	42	21-3	56-515	60	49-95	16	34-20	...	12-3649
<b>28</b>	21-02	+3-64	1	12	05-83	+	11	34	13-9	56-353	61	00-45	16	37-06	00-8040	13-2555
<b>29</b>	36-09	+4-48	2	08	51-60	+	17	46	33-5	56-466	60	53-09	16	35-05	01-7207	14-2006
<b>30</b>	51-03	+5-02	3	08	41-45	+	22	51	00-3	56-829	60	29-77	16	28-70	02-6948	15-2017
<b>Oct. 1</b>	65-73	+5-21	4	11	14-69	+	26	23	10-9	57-391	59	54-24	16	19-02	03-7181	16-2397

FOR 0<sup>h</sup> TERRESTRIAL TIME

Date 0 <sup>h</sup> TT	Apparent		Apparent				True Dist.	Horiz. Parallax	Semi- diameter	Ephemeris Transit for date		
	Long.	Lat.	R.A.	Dec.						Upper	Lower	
	°	°	h	m	s	°	'	"	'	"	h	h
<b>Oct. 1</b>	65-73	+5-21	4 11	14-69	+26 23	10-9	57-391	59 54-24	16 19-02	03-7181	16-2397	
<b>2</b>	80-09	+5-07	5 15	08-82	+28 07	21-2	58-089	59 11-04	16 07-26	04-7613	17-2771	
<b>3</b>	94-05	+4-63	6 18	18-16	+28 00	11-5	58-859	58 24-58	15 54-60	05-7821	18-2719	
<b>4</b>	107-63	+3-94	7 18	41-22	+26 10	53-3	59-645	57 38-40	15 42-02	06-7437	19-1957	
<b>5</b>	120-83	+3-05	8 15	04-10	+22 57	06-0	60-402	56 55-00	15 30-20	07-6276	20-0402	
<b>6</b>	133-72	+2-03	9 07	12-07	+18 39	25-6	61-103	56 15-83	15 19-54	08-4348	20-8134	
<b>7</b>	146-33	+0-94	9 55	34-64	+13 37	24-1	61-730	55 41-56	15 10-20	09-1782	21-5316	
<b>8</b>	158-72	-0-18	10 41	04-33	+ 8 07	52-9	62-275	55 12-29	15 02-23	09-8761	22-2139	
<b>9</b>	170-94	-1-28	11 24	41-40	+ 2 25	05-3	62-738	54 47-85	14 55-57	10-5474	22-8789	
<b>10</b>	183-02	-2-30	12 07	25-93	- 3 18	39-6	63-118	54 28-06	14 50-18	11-2106	23-5445	
<b>11</b>	195-00	-3-21	12 50	14-68	- 8 52	05-7	63-413	54 12-84	14 46-04	11-8825	...	
<b>12</b>	206-91	-3-97	13 33	59-33	-14 04	16-3	63-618	54 02-37	14 43-18	12-5784	00-2266	
<b>13</b>	218-77	-4-55	14 19	24-41	-18 44	03-6	63-722	53 57-08	14 41-75	13-3105	00-9393	
<b>14</b>	230-62	-4-94	15 07	03-08	-22 39	56-2	63-710	53 57-67	14 41-91	14-0867	01-6928	
<b>15</b>	242-48	-5-12	15 57	10-82	-25 40	12-0	63-567	54 04-98	14 43-90	14-9079	02-4919	
<b>16</b>	254-40	-5-07	16 49	38-62	-27 33	45-7	63-276	54 19-91	14 47-96	15-7662	03-3332	
<b>17</b>	266-43	-4-80	17 43	50-32	-28 11	29-5	62-826	54 43-24	14 54-32	16-6455	04-2044	
<b>18</b>	278-63	-4-31	18 38	49-03	-27 27	45-8	62-216	55 15-46	15 03-09	17-5260	05-0868	
<b>19</b>	291-07	-3-61	19 33	33-57	-25 21	30-5	61-454	55 56-57	15 14-29	18-3910	05-9612	
<b>20</b>	303-82	-2-72	20 27	17-92	-21 56	20-5	60-566	56 45-76	15 27-69	19-2325	06-8148	
<b>21</b>	316-96	-1-66	21 19	44-33	-17 19	53-9	59-596	57 41-19	15 42-79	20-0526	07-6447	
<b>22</b>	330-54	-0-47	22 11	06-15	-11 43	08-2	58-605	58 39-76	15 58-74	20-8626	08-4578	
<b>23</b>	344-60	+0-79	23 02	03-15	- 5 20	12-3	57-667	59 37-00	16 14-33	21-6805	09-2693	
<b>24</b>	359-13	+2-03	23 53	34-00	+ 1 30	58-3	56-866	60 27-40	16 28-06	22-5279	10-0991	
<b>25</b>	14-06	+3-17	0 46	47-83	+ 8 27	51-2	56-280	61 05-15	16 38-34	23-4271	10-9698	
<b>26</b>	29-28	+4-10	1 42	52-77	+15 02	57-3	55-972	61 25-33	16 43-83	...	11-9016	
<b>27</b>	44-61	+4-75	2 42	36-90	+20 45	05-4	55-974	61 25-21	16 43-80	00-3942	12-9043	
<b>28</b>	59-87	+5-05	3 46	00-19	+25 03	11-6	56-282	61 05-06	16 38-31	01-4297	13-9665	
<b>29</b>	74-88	+5-00	4 51	49-23	+27 32	53-3	56-856	60 28-02	16 28-22	02-5090	15-0507	
<b>30</b>	89-50	+4-62	5 57	43-12	+28 03	31-6	57-633	59 39-15	16 14-91	03-5845	16-1045	
<b>31</b>	103-65	+3-97	7 01	05-44	+26 41	07-1	58-532	58 44-11	15 59-92	04-6059	17-0855	
<b>Nov. 1</b>	117-31	+3-10	8 00	08-04	+23 44	26-0	59-478	57 48-08	15 44-66	05-5422	17-9762	
<b>2</b>	130-52	+2-10	8 54	17-79	+19 37	18-6	60-401	56 55-07	15 30-22	06-3886	18-7815	
<b>3</b>	143-33	+1-02	9 44	01-39	+14 42	21-1	61-250	56 07-77	15 17-34	07-1574	19-5190	
<b>4</b>	155-81	-0-08	10 30	16-86	+ 9 18	13-6	61-988	55 27-64	15 06-41	07-8689	20-2100	
<b>5</b>	168-04	-1-16	11 14	12-26	+ 3 39	39-5	62-598	54 55-22	14 57-58	08-5449	20-8760	
<b>6</b>	180-10	-2-16	11 56	55-01	- 2 01	25-6	63-073	54 30-40	14 50-82	09-2059	21-5367	
<b>7</b>	192-04	-3-06	12 39	27-85	- 7 34	32-7	63-417	54 12-66	14 45-99	09-8706	22-2097	
<b>8</b>	203-92	-3-82	13 22	47-47	-12 49	30-9	63-638	54 01-35	14 42-91	10-5559	22-9107	
<b>9</b>	215-77	-4-40	14 07	42-69	-17 35	39-6	63-746	53 55-86	14 41-41	11-2755	23-6515	
<b>10</b>	227-62	-4-80	14 54	50-52	-21 41	27-1	63-749	53 55-73	14 41-38	12-0391	...	
<b>11</b>	239-51	-4-99	15 44	29-64	-24 54	45-0	63-649	54 00-78	14 42-75	12-8488	00-4383	
<b>12</b>	251-44	-4-96	16 36	32-80	-27 03	46-5	63-447	54 11-09	14 45-56	13-6978	01-2692	
<b>13</b>	263-44	-4-71	17 30	23-05	-27 58	45-7	63-138	54 27-02	14 49-90	14-5698	02-1322	
<b>14</b>	275-55	-4-24	18 24	59-73	-27 33	49-5	62-715	54 49-08	14 55-91	15-4434	03-0077	
<b>15</b>	287-81	-3-58	19 19	15-76	-25 48	10-3	62-172	55 17-79	15 03-73	16-2993	03-8745	
<b>16</b>	300-25	-2-73	20 12	18-90	-22 46	00-6	61-510	55 53-50	15 13-45	17-1270	04-7169	

FOR 0<sup>h</sup> TERRESTRIAL TIME

Date 0 <sup>h</sup> TT	Apparent		Apparent				True Dist.	Horiz. Parallax	Semi- diameter	Ephemeris Transit for date			
	Long.	Lat.	R.A.	Dec.						Upper	Lower		
	°	°	h	m	s	°	'	"	'	"	h	h	
<b>Nov. 16</b>	300.25	-2.73	20	12	18.90	-22	46	00.6	61.510	55 53.50	15 13.45	17.1270	04.7169
<b>17</b>	312.96	-1.74	21	03	46.47	-18	35	21.1	60.739	56 36.10	15 25.06	17.9267	05.5299
<b>18</b>	325.99	-0.62	21	53	48.48	-13	26	36.1	59.881	57 24.76	15 38.31	18.7081	06.3188
<b>19</b>	339.40	+0.56	22	43	02.67	-7	31	48.2	58.975	58 17.65	15 52.71	19.4884	07.0971
<b>20</b>	353.25	+1.74	23	32	27.12	-1	04	55.1	58.078	59 11.67	16 07.43	20.2894	07.8848
<b>21</b>	7.55	+2.85	0	23	13.33	+5	37	02.9	57.260	60 02.46	16 21.26	21.1356	08.7053
<b>22</b>	22.29	+3.81	1	16	38.63	+12	12	32.5	56.595	60 44.75	16 32.78	22.0504	09.5832
<b>23</b>	37.37	+4.52	2	13	52.92	+18	14	31.3	56.158	61 13.12	16 40.51	23.0481	10.5387
<b>24</b>	52.66	+4.92	3	15	33.81	+23	11	33.5	56.003	61 23.31	16 43.28	...	11.5768
<b>25</b>	67.96	+4.97	4	21	11.73	+26	32	36.7	56.155	61 13.34	16 40.57	00.1211	12.6750
<b>26</b>	83.09	+4.67	5	28	47.99	+27	55	36.9	56.603	60 44.23	16 32.64	01.2312	13.7817
<b>27</b>	97.88	+4.06	6	35	23.46	+27	15	43.4	57.304	59 59.69	16 20.51	02.3191	14.8374
<b>28</b>	112.21	+3.21	7	38	15.27	+24	46	35.1	58.185	59 05.13	16 05.65	03.3328	15.8033
<b>29</b>	126.04	+2.19	8	35	59.14	+20	53	14.7	59.166	58 06.35	15 49.64	04.2489	16.6710
<b>30</b>	139.37	+1.09	9	28	34.29	+16	02	45.3	60.164	57 08.54	15 33.89	05.0717	17.4537
<b>Dec. 1</b>	152.25	-0.04	10	16	52.10	+10	38	18.3	61.107	56 15.64	15 19.48	05.8201	18.1738
<b>2</b>	164.75	-1.13	11	02	04.65	+4	57	41.5	61.938	55 30.30	15 07.14	06.5178	18.8550
<b>3</b>	176.96	-2.15	11	45	26.79	-0	45	45.4	62.622	54 53.95	14 57.24	07.1881	19.5197
<b>4</b>	188.97	-3.05	12	28	09.01	-6	21	28.8	63.137	54 27.08	14 49.91	07.8523	20.1882
<b>5</b>	200.86	-3.80	13	11	15.33	-11	40	02.9	63.479	54 09.45	14 45.11	08.5296	20.8785
<b>6</b>	212.70	-4.39	13	55	42.01	-16	31	52.3	63.657	54 00.38	14 42.64	09.2366	21.6053
<b>7</b>	224.53	-4.79	14	42	14.43	-20	46	22.0	63.686	53 58.91	14 42.24	09.9858	22.3785
<b>8</b>	236.42	-4.98	15	31	20.84	-24	11	47.0	63.587	54 03.98	14 43.62	10.7834	23.1997
<b>9</b>	248.38	-4.96	16	23	03.66	-26	35	53.3	63.380	54 14.56	14 46.51	11.6261	...
<b>10</b>	260.44	-4.71	17	16	52.68	-27	47	39.6	63.084	54 29.81	14 50.66	12.4996	00.0603
<b>11</b>	272.62	-4.25	18	11	47.32	-27	39	35.9	62.714	54 49.12	14 55.92	13.3814	00.9410
<b>12</b>	284.92	-3.58	19	06	32.49	-26	09	41.4	62.277	55 12.19	15 02.20	14.2482	01.8179
<b>13</b>	297.37	-2.73	20	00	02.71	-23	21	54.8	61.778	55 38.97	15 09.50	15.0840	02.6706
<b>14</b>	309.98	-1.74	20	51	41.60	-19	25	05.0	61.217	56 09.55	15 17.83	15.8843	03.4884
<b>15</b>	322.81	-0.64	21	41	28.40	-14	30	53.2	60.598	56 44.00	15 27.21	16.6556	04.2728
<b>16</b>	335.88	+0.52	22	29	53.39	-8	52	16.8	59.927	57 22.11	15 37.59	17.4125	05.0347
<b>17</b>	349.24	+1.68	23	17	49.44	-2	42	53.5	59.221	58 03.12	15 48.76	18.1753	05.7917
<b>18</b>	2.95	+2.77	0	06	24.46	+3	42	29.9	58.510	58 45.45	16 00.29	18.9677	06.5662
<b>19</b>	17.01	+3.72	0	56	55.31	+10	06	43.8	57.836	59 26.53	16 11.48	19.8146	07.3828
<b>20</b>	31.42	+4.46	1	50	39.60	+16	08	44.8	57.253	60 02.85	16 21.37	20.7381	08.2658
<b>21</b>	46.15	+4.92	2	48	39.71	+21	22	46.5	56.821	60 30.29	16 28.84	21.7475	09.2323
<b>22</b>	61.09	+5.06	3	51	14.02	+25	19	44.1	56.594	60 44.84	16 32.80	22.8275	10.2809
<b>23</b>	76.11	+4.86	4	57	23.02	+27	32	36.8	56.614	60 43.57	16 32.46	23.9321	11.3805
<b>24</b>	91.04	+4.32	6	04	41.29	+27	45	14.8	56.896	60 25.50	16 27.54	...	12.4745
<b>25</b>	105.74	+3.50	7	10	06.17	+25	59	18.6	57.427	59 51.99	16 18.41	01.0010	13.5067
<b>26</b>	120.07	+2.48	8	11	17.19	+22	33	23.2	58.163	59 06.49	16 06.02	01.9888	14.4466
<b>27</b>	133.96	+1.33	9	07	19.99	+17	54	47.6	59.041	58 13.76	15 51.65	02.8806	15.2927
<b>28</b>	147.40	+0.15	9	58	34.75	+12	30	52.5	59.984	57 18.82	15 36.69	03.6854	16.0615
<b>29</b>	160.38	-1.01	10	46	02.13	+6	44	16.7	60.916	56 26.22	15 22.37	04.4240	16.7760
<b>30</b>	172.98	-2.09	11	30	56.25	+0	52	06.6	61.768	55 39.52	15 09.65	05.1204	17.4599
<b>31</b>	185.27	-3.04	12	14	31.02	-4	52	53.1	62.485	55 01.18	14 59.20	05.7973	18.1351
<b>32</b>	197.32	-3.83	12	57	55.18	-10	20	35.2	63.030	54 32.63	14 51.43	06.4758	18.8215