

## EXTRACT FROM SECTION G

The following pages replace those in the printed almanac for 2006. This is necessary due to an unpredictable error in the transit times. Mostly the times are in error by 0<sup>m</sup>1 or 0<sup>m</sup>2; occasionally, the error reached 0<sup>m</sup>4. The astrometric right ascension, declination and magnitude are also tabulated but are unchanged.

	PAGE
Notes .....	G1
Geocentric ephemeris, magnitude, time of ephemeris transit for:	
Ceres .....	G5
Pallas .....	G6
Vesta .....	G7
Hebe .....	G8
Iris .....	G9
Flora .....	G10
Metis .....	G11
Hygiea .....	G12
Eunomia .....	G13
Europa .....	G14
Cybele .....	G15
Davida .....	G16
Interamnia .....	G17



This symbol indicates that these data or auxiliary material may also be found on *The Astronomical Almanac Online* at <http://asa.usno.navy.mil> and <http://asa.hmnao.com>

**Note**

A daily geocentric astrometric ephemeris is tabulated for those of the 15 larger minor planets (Ceres, Pallas, Juno, Vesta, Hebe, Iris, Flora, Metis, Hygiea, Eunomia, Psyche, Europa, Cybele, Davida and Interamnia) that have an opposition date occurring between 2006 January 1 and January 31 of the following year. The daily ephemeris of each object is centred about the opposition date, which is repeated at the bottom of the first column and at the top of the second column. The highlighted dates indicate when the object is stationary in right ascension. It is very occasionally possible for a stationary date to be outside the period tabulated.

Linear interpolation is sufficient for the magnitude and ephemeris transit, but for the right ascension and declination second differences are significant. The tabulations are similar to those for Pluto, and the use of the data is similar to that for major planets.

CERES, 2006

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

Date	Astrometric					Vis. Mag.	Ephem-eris Transit	Date	Astrometric					Vis. Mag.	Ephem-eris Transit					
	R.A.			Dec.					R.A.			Dec.								
	h	m	s	°	'				''	h	m	s	°			'	''	h	m	
2006 June 14	22	10	12.5	-21	53	06	8.6	4	41	3	2006 Aug. 12	21	48	20.4	-27	52	05	7.6	0	27.4
15	22	10	29.0	-21	56	43	8.5	4	37	6	13	21	47	27.9	-27	57	53	7.6	0	22.6
16	22	10	44.1	-22	00	28	8.5	4	33	9	14	21	46	35.2	-28	03	33	7.6	0	17.8
17	22	10	58.0	-22	04	21	8.5	4	30	2	15	21	45	42.3	-28	09	05	7.6	0	13.0
18	22	11	10.5	-22	08	22	8.5	4	26	5	16	21	44	49.3	-28	14	29	7.6	0	08.2
19	22	11	21.6	-22	12	31	8.5	4	22	7	17	21	43	56.2	-28	19	44	7.6	0	03.4
20	22	11	31.4	-22	16	48	8.5	4	18	9	18	21	43	03.1	-28	24	50	7.7	23	53.8
21	22	11	39.8	-22	21	12	8.4	4	15	2	19	21	42	10.1	-28	29	46	7.7	23	49.0
22	22	11	46.9	-22	25	45	8.4	4	11	3	20	21	41	17.2	-28	34	33	7.7	23	44.2
23	22	11	52.5	-22	30	25	8.4	4	07	5	21	21	40	24.4	-28	39	10	7.7	23	39.4
24	22	11	56.7	-22	35	13	8.4	4	03	6	22	21	39	31.9	-28	43	37	7.7	23	34.6
25	22	11	59.5	-22	40	09	8.4	3	59	7	23	21	38	39.7	-28	47	54	7.7	23	29.8
June 26	22	12	00.9	-22	45	12	8.4	3	55	8	24	21	37	47.9	-28	52	01	7.7	23	25.0
27	22	12	00.8	-22	50	23	8.3	3	51	9	25	21	36	56.5	-28	55	56	7.8	23	20.2
28	22	11	59.4	-22	55	41	8.3	3	47	9	26	21	36	05.6	-28	59	41	7.8	23	15.5
29	22	11	56.5	-23	01	05	8.3	3	43	9	27	21	35	15.2	-29	03	15	7.8	23	10.7
30	22	11	52.1	-23	06	37	8.3	3	39	9	28	21	34	25.4	-29	06	38	7.8	23	06.0
July 1	22	11	46.3	-23	12	16	8.3	3	35	9	29	21	33	36.3	-29	09	50	7.8	23	01.2
2	22	11	39.1	-23	18	01	8.3	3	31	9	30	21	32	47.8	-29	12	51	7.8	22	56.5
3	22	11	30.4	-23	23	53	8.2	3	27	8	31	21	32	00.2	-29	15	40	7.9	22	51.8
4	22	11	20.3	-23	29	51	8.2	3	23	7	Sept. 1	21	31	13.3	-29	18	18	7.9	22	47.1
5	22	11	08.7	-23	35	55	8.2	3	19	5	2	21	30	27.3	-29	20	45	7.9	22	42.4
6	22	10	55.7	-23	42	05	8.2	3	15	4	3	21	29	42.2	-29	23	01	7.9	22	37.7
7	22	10	41.3	-23	48	21	8.2	3	11	2	4	21	28	58.0	-29	25	05	7.9	22	33.1
8	22	10	25.5	-23	54	42	8.1	3	07	0	5	21	28	14.8	-29	26	58	8.0	22	28.5
9	22	10	08.2	-24	01	08	8.1	3	02	8	6	21	27	32.6	-29	28	40	8.0	22	23.9
10	22	09	49.5	-24	07	39	8.1	2	58	6	7	21	26	51.5	-29	30	10	8.0	22	19.3
11	22	09	29.4	-24	14	14	8.1	2	54	3	8	21	26	11.5	-29	31	30	8.0	22	14.7
12	22	09	07.8	-24	20	54	8.1	2	50	0	9	21	25	32.7	-29	32	38	8.0	22	10.1
13	22	08	44.9	-24	27	39	8.1	2	45	7	10	21	24	55.0	-29	33	36	8.1	22	05.6
14	22	08	20.6	-24	34	27	8.0	2	41	4	11	21	24	18.5	-29	34	23	8.1	22	01.1
15	22	07	54.9	-24	41	18	8.0	2	37	0	12	21	23	43.2	-29	34	58	8.1	21	56.6
16	22	07	27.9	-24	48	13	8.0	2	32	6	13	21	23	09.2	-29	35	24	8.1	21	52.1
17	22	06	59.5	-24	55	11	8.0	2	28	2	14	21	22	36.4	-29	35	38	8.1	21	47.6
18	22	06	29.8	-25	02	11	8.0	2	23	8	15	21	22	05.0	-29	35	42	8.1	21	43.2
19	22	05	58.7	-25	09	13	7.9	2	19	3	16	21	21	34.9	-29	35	36	8.2	21	38.8
20	22	05	26.3	-25	16	18	7.9	2	14	9	17	21	21	06.2	-29	35	19	8.2	21	34.4
21	22	04	52.7	-25	23	24	7.9	2	10	4	18	21	20	38.9	-29	34	52	8.2	21	30.1
22	22	04	17.8	-25	30	31	7.9	2	05	9	19	21	20	13.0	-29	34	16	8.2	21	25.7
23	22	03	41.7	-25	37	38	7.9	2	01	3	20	21	19	48.5	-29	33	29	8.2	21	21.4
24	22	03	04.4	-25	44	47	7.9	1	56	8	21	21	19	25.5	-29	32	32	8.3	21	17.1
25	22	02	25.9	-25	51	55	7.8	1	52	2	22	21	19	03.9	-29	31	26	8.3	21	12.8
26	22	01	46.3	-25	59	02	7.8	1	47	6	23	21	18	43.8	-29	30	10	8.3	21	08.6
27	22	01	05.6	-26	06	09	7.8	1	43	0	24	21	18	25.2	-29	28	45	8.3	21	04.4
28	22	00	23.8	-26	13	14	7.8	1	38	4	25	21	18	08.0	-29	27	11	8.3	21	00.2
29	21	59	41.0	-26	20	17	7.8	1	33	8	26	21	17	52.4	-29	25	28	8.3	20	56.0
30	21	58	57.3	-26	27	18	7.8	1	29	1	27	21	17	38.3	-29	23	36	8.4	20	51.9
31	21	58	12.6	-26	34	17	7.7	1	24	4	28	21	17	25.8	-29	21	35	8.4	20	47.7
Aug. 1	21	57	27.0	-26	41	12	7.7	1	19	7	29	21	17	14.7	-29	19	26	8.4	20	43.7
2	21	56	40.5	-26	48	04	7.7	1	15	0	30	21	17	05.2	-29	17	08	8.4	20	39.6
3	21	55	53.3	-26	54	52	7.7	1	10	3	Oct. 1	21	16	57.1	-29	14	42	8.4	20	35.5
4	21	55	05.3	-27	01	36	7.7	1	05	6	2	21	16	50.6	-29	12	08	8.5	20	31.5
5	21	54	16.6	-27	08	15	7.7	1	00	9	3	21	16	45.6	-29	09	26	8.5	20	27.5
6	21	53	27.3	-27	14	49	7.7	0	56	1	4	21	16	42.1	-29	06	36	8.5	20	23.6
7	21	52	37.4	-27	21	17	7.6	0	51	3	Oct. 5	21	16	40.2	-29	03	39	8.5	20	19.6
8	21	51	46.9	-27	27	40	7.6	0	46	6	6	21	16	39.7	-29	00	35	8.5	20	15.7
9	21	50	55.9	-27	33	56	7.6	0	41	8	7	21	16	40.7	-28	57	23	8.5	20	11.8
10	21	50	04.4	-27	40	06	7.6	0	37	0	8	21	16	43.1	-28	54	04	8.6	20	07.9
11	21	49	12.6	-27	46	09	7.6	0	32	2	9	21	16	47.0	-28	50	38	8.6	20	04.1
Aug. 12	21	48	20.4	-27	52	05	7.6	0	27	4	Oct. 10	21	16	52.4	-28	47	06	8.6	20	00.3

Second transit for Ceres 2006 August 17<sup>d</sup> 23<sup>h</sup> 58<sup>m</sup>6

PALLAS, 2006  
GEOCENTRIC POSITIONS FOR 0<sup>h</sup> TERRESTRIAL TIME

Date	Astrometric		Vis. Mag.	Ephem- eris Transit	Date	Astrometric		Vis. Mag.	Ephem- eris Transit
	R.A.	Dec.				R.A.	Dec.		
	h m s	° ′ ″				h m s	° ′ ″		
<b>2006 May 3</b>	19 01 21.4	+18 51 13	9.9	4 17.9	<b>2006 July 1</b>	18 29 44.3	+23 28 03	9.5	23 49.6
<b>4</b>	19 01 21.0	+19 00 57	9.9	4 14.0	<b>2</b>	18 28 54.0	+23 25 08	9.5	23 44.9
<b>5</b>	19 01 19.2	+19 10 36	9.8	4 10.0	<b>3</b>	18 28 03.8	+23 21 56	9.5	23 40.1
<b>6</b>	19 01 16.2	+19 20 10	9.8	4 06.0	<b>4</b>	18 27 13.9	+23 18 27	9.5	23 35.4
<b>7</b>	19 01 11.8	+19 29 39	9.8	4 02.0	<b>5</b>	18 26 24.3	+23 14 40	9.5	23 30.6
<b>8</b>	19 01 06.2	+19 39 02	9.8	3 58.0	<b>6</b>	18 25 34.9	+23 10 37	9.5	23 25.9
<b>9</b>	19 00 59.3	+19 48 19	9.8	3 53.9	<b>7</b>	18 24 45.9	+23 06 16	9.5	23 21.1
<b>10</b>	19 00 51.1	+19 57 30	9.8	3 49.9	<b>8</b>	18 23 57.3	+23 01 40	9.5	23 16.4
<b>11</b>	19 00 41.6	+20 06 34	9.8	3 45.8	<b>9</b>	18 23 09.1	+22 56 46	9.6	23 11.7
<b>12</b>	19 00 30.9	+20 15 31	9.8	3 41.7	<b>10</b>	18 22 21.4	+22 51 37	9.6	23 07.0
<b>13</b>	19 00 18.8	+20 24 21	9.8	3 37.5	<b>11</b>	18 21 34.2	+22 46 12	9.6	23 02.3
<b>14</b>	19 00 05.5	+20 33 04	9.8	3 33.4	<b>12</b>	18 20 47.5	+22 40 31	9.6	22 57.6
<b>15</b>	18 59 50.9	+20 41 39	9.8	3 29.2	<b>13</b>	18 20 01.4	+22 34 34	9.6	22 52.9
<b>16</b>	18 59 35.1	+20 50 06	9.8	3 25.0	<b>14</b>	18 19 15.9	+22 28 22	9.6	22 48.2
<b>17</b>	18 59 17.9	+20 58 25	9.8	3 20.8	<b>15</b>	18 18 31.0	+22 21 55	9.6	22 43.6
<b>18</b>	18 58 59.6	+21 06 35	9.7	3 16.5	<b>16</b>	18 17 46.8	+22 15 13	9.6	22 38.9
<b>19</b>	18 58 39.9	+21 14 36	9.7	3 12.3	<b>17</b>	18 17 03.4	+22 08 17	9.6	22 34.3
<b>20</b>	18 58 19.0	+21 22 27	9.7	3 08.0	<b>18</b>	18 16 20.7	+22 01 06	9.6	22 29.6
<b>21</b>	18 57 56.9	+21 30 09	9.7	3 03.7	<b>19</b>	18 15 38.8	+21 53 41	9.6	22 25.0
<b>22</b>	18 57 33.5	+21 37 41	9.7	2 59.4	<b>20</b>	18 14 57.7	+21 46 03	9.6	22 20.4
<b>23</b>	18 57 09.0	+21 45 03	9.7	2 55.0	<b>21</b>	18 14 17.4	+21 38 11	9.6	22 15.8
<b>24</b>	18 56 43.2	+21 52 14	9.7	2 50.7	<b>22</b>	18 13 38.0	+21 30 06	9.6	22 11.3
<b>25</b>	18 56 16.2	+21 59 14	9.7	2 46.3	<b>23</b>	18 12 59.5	+21 21 48	9.6	22 06.7
<b>26</b>	18 55 48.1	+22 06 03	9.7	2 41.9	<b>24</b>	18 12 22.0	+21 13 17	9.6	22 02.2
<b>27</b>	18 55 18.8	+22 12 39	9.7	2 37.5	<b>25</b>	18 11 45.5	+21 04 34	9.6	21 57.6
<b>28</b>	18 54 48.3	+22 19 04	9.7	2 33.0	<b>26</b>	18 11 09.9	+20 55 40	9.7	21 53.1
<b>29</b>	18 54 16.8	+22 25 17	9.7	2 28.6	<b>27</b>	18 10 35.3	+20 46 34	9.7	21 48.7
<b>30</b>	18 53 44.1	+22 31 16	9.7	2 24.1	<b>28</b>	18 10 01.8	+20 37 17	9.7	21 44.2
<b>31</b>	18 53 10.4	+22 37 03	9.7	2 19.6	<b>29</b>	18 09 29.4	+20 27 50	9.7	21 39.7
<b>June 1</b>	18 52 35.6	+22 42 37	9.6	2 15.1	<b>30</b>	18 08 58.0	+20 18 12	9.7	21 35.3
<b>2</b>	18 51 59.9	+22 47 57	9.6	2 10.6	<b>31</b>	18 08 27.8	+20 08 24	9.7	21 30.9
<b>3</b>	18 51 23.1	+22 53 03	9.6	2 06.0	<b>Aug. 1</b>	18 07 58.6	+19 58 27	9.7	21 26.5
<b>4</b>	18 50 45.4	+22 57 55	9.6	2 01.5	<b>2</b>	18 07 30.7	+19 48 21	9.7	21 22.1
<b>5</b>	18 50 06.7	+23 02 32	9.6	1 56.9	<b>3</b>	18 07 03.8	+19 38 06	9.7	21 17.7
<b>6</b>	18 49 27.1	+23 06 55	9.6	1 52.3	<b>4</b>	18 06 38.1	+19 27 42	9.7	21 13.4
<b>7</b>	18 48 46.7	+23 11 03	9.6	1 47.7	<b>5</b>	18 06 13.6	+19 17 11	9.7	21 09.1
<b>8</b>	18 48 05.4	+23 14 56	9.6	1 43.1	<b>6</b>	18 05 50.3	+19 06 32	9.7	21 04.8
<b>9</b>	18 47 23.2	+23 18 34	9.6	1 38.5	<b>7</b>	18 05 28.2	+18 55 45	9.8	21 00.5
<b>10</b>	18 46 40.3	+23 21 56	9.6	1 33.8	<b>8</b>	18 05 07.3	+18 44 52	9.8	20 56.2
<b>11</b>	18 45 56.7	+23 25 02	9.6	1 29.2	<b>9</b>	18 04 47.6	+18 33 53	9.8	20 52.0
<b>12</b>	18 45 12.3	+23 27 53	9.6	1 24.5	<b>10</b>	18 04 29.1	+18 22 47	9.8	20 47.8
<b>13</b>	18 44 27.3	+23 30 27	9.6	1 19.8	<b>11</b>	18 04 11.8	+18 11 35	9.8	20 43.6
<b>14</b>	18 43 41.6	+23 32 45	9.6	1 15.1	<b>12</b>	18 03 55.7	+18 00 18	9.8	20 39.4
<b>15</b>	18 42 55.3	+23 34 47	9.6	1 10.4	<b>13</b>	18 03 40.9	+17 48 56	9.8	20 35.2
<b>16</b>	18 42 08.4	+23 36 32	9.6	1 05.7	<b>14</b>	18 03 27.3	+17 37 29	9.8	20 31.1
<b>17</b>	18 41 21.0	+23 38 00	9.6	1 01.0	<b>15</b>	18 03 15.0	+17 25 57	9.8	20 27.0
<b>18</b>	18 40 33.1	+23 39 11	9.6	0 56.3	<b>16</b>	18 03 03.8	+17 14 22	9.9	20 22.9
<b>19</b>	18 39 44.7	+23 40 05	9.6	0 51.5	<b>17</b>	18 02 54.0	+17 02 42	9.9	20 18.8
<b>20</b>	18 38 55.9	+23 40 42	9.5	0 46.8	<b>18</b>	18 02 45.3	+16 50 59	9.9	20 14.8
<b>21</b>	18 38 06.8	+23 41 01	9.5	0 42.1	<b>19</b>	18 02 38.0	+16 39 12	9.9	20 10.7
<b>22</b>	18 37 17.2	+23 41 03	9.5	0 37.3	<b>20</b>	18 02 31.8	+16 27 23	9.9	20 06.7
<b>23</b>	18 36 27.5	+23 40 47	9.5	0 32.5	<b>21</b>	18 02 27.0	+16 15 31	9.9	20 02.7
<b>24</b>	18 35 37.4	+23 40 14	9.5	0 27.8	<b>22</b>	18 02 23.3	+16 03 37	9.9	19 58.7
<b>25</b>	18 34 47.2	+23 39 22	9.5	0 23.0	<b>23</b>	18 02 20.9	+15 51 41	9.9	19 54.8
<b>26</b>	18 33 56.8	+23 38 13	9.5	0 18.3	<b>Aug. 24</b>	18 02 19.8	+15 39 43	9.9	19 50.8
<b>27</b>	18 33 06.3	+23 36 47	9.5	0 13.5	<b>25</b>	18 02 19.9	+15 27 44	9.9	19 46.9
<b>28</b>	18 32 15.8	+23 35 02	9.5	0 08.7	<b>26</b>	18 02 21.3	+15 15 44	10.0	19 43.0
<b>29</b>	18 31 25.2	+23 33 00	9.5	0 04.0	<b>27</b>	18 02 23.8	+15 03 43	10.0	19 39.2
<b>30</b>	18 30 34.7	+23 30 40	9.5	23 54.4	<b>28</b>	18 02 27.6	+14 51 42	10.0	19 35.3
<b>July 1</b>	18 29 44.3	+23 28 03	9.5	23 49.6	<b>Aug. 29</b>	18 02 32.7	+14 39 40	10.0	19 31.5

Second transit for Pallas 2006 June 29<sup>d</sup> 23<sup>h</sup> 59<sup>m</sup> 2

## VESTA, 2006

G7

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

Date	Astrometric		Vis. Mag.	Ephem- eris Transit	Date	Astrometric		Vis. Mag.	Ephem- eris Transit
	R.A.	Dec.				R.A.	Dec.		
	h m s	° ' "				h m s	° ' "		
<b>2005 Nov.</b> 7	7 36 19.4	+19 37 26	7.6	4 30.8	<b>2006 Jan.</b> 5	7 07 59.7	+22 46 30	6.3	0 10.5
8	7 36 40.2	+19 38 04	7.6	4 27.2	6	7 06 52.5	+22 51 11	6.2	0 05.5
9	7 36 59.4	+19 38 47	7.6	4 23.6	7	7 05 45.2	+22 55 50	6.3	0 00.5
10	7 37 16.9	+19 39 36	7.5	4 20.0	8	7 04 37.9	+23 00 26	6.3	23 50.4
11	7 37 32.8	+19 40 29	7.5	4 16.3	9	7 03 30.7	+23 05 01	6.3	23 45.3
12	7 37 47.0	+19 41 29	7.5	4 12.6	10	7 02 23.7	+23 09 32	6.4	23 40.3
13	7 37 59.6	+19 42 33	7.5	4 08.9	11	7 01 16.8	+23 14 02	6.4	23 35.3
14	7 38 10.4	+19 43 44	7.5	4 05.1	12	7 00 10.3	+23 18 28	6.4	23 30.2
15	7 38 19.5	+19 45 00	7.4	4 01.3	13	6 59 04.2	+23 22 51	6.4	23 25.2
16	7 38 26.9	+19 46 21	7.4	3 57.5	14	6 57 58.6	+23 27 11	6.5	23 20.2
17	7 38 32.5	+19 47 49	7.4	3 53.7	15	6 56 53.6	+23 31 27	6.5	23 15.2
18	7 38 36.4	+19 49 22	7.4	3 49.8	16	6 55 49.2	+23 35 40	6.5	23 10.2
<b>Nov.</b> 19	7 38 38.4	+19 51 02	7.4	3 45.9	17	6 54 45.6	+23 39 49	6.5	23 05.2
20	7 38 38.7	+19 52 48	7.4	3 42.0	18	6 53 42.7	+23 43 54	6.6	23 00.3
21	7 38 37.1	+19 54 39	7.3	3 38.0	19	6 52 40.7	+23 47 55	6.6	22 55.3
22	7 38 33.7	+19 56 37	7.3	3 34.0	20	6 51 39.7	+23 51 52	6.6	22 50.4
23	7 38 28.5	+19 58 41	7.3	3 30.0	21	6 50 39.8	+23 55 46	6.6	22 45.5
24	7 38 21.3	+20 00 51	7.3	3 25.9	22	6 49 40.9	+23 59 34	6.6	22 40.6
25	7 38 12.4	+20 03 08	7.3	3 21.8	23	6 48 43.2	+24 03 19	6.7	22 35.8
26	7 38 01.5	+20 05 31	7.2	3 17.7	24	6 47 46.7	+24 06 59	6.7	22 30.9
27	7 37 48.7	+20 08 00	7.2	3 13.6	25	6 46 51.6	+24 10 35	6.7	22 26.1
28	7 37 34.1	+20 10 35	7.2	3 09.4	26	6 45 57.8	+24 14 07	6.7	22 21.3
29	7 37 17.5	+20 13 17	7.2	3 05.2	27	6 45 05.4	+24 17 34	6.8	22 16.5
30	7 36 59.1	+20 16 05	7.1	3 00.9	28	6 44 14.6	+24 20 57	6.8	22 11.8
<b>Dec.</b> 1	7 36 38.7	+20 18 59	7.1	2 56.7	29	6 43 25.3	+24 24 15	6.8	22 07.0
2	7 36 16.5	+20 21 59	7.1	2 52.4	30	6 42 37.6	+24 27 29	6.8	22 02.3
3	7 35 52.4	+20 25 06	7.1	2 48.0	31	6 41 51.5	+24 30 38	6.8	21 57.7
4	7 35 26.4	+20 28 18	7.1	2 43.7	<b>Feb.</b> 1	6 41 07.2	+24 33 43	6.9	21 53.0
5	7 34 58.5	+20 31 37	7.0	2 39.3	2	6 40 24.5	+24 36 43	6.9	21 48.4
6	7 34 28.8	+20 35 01	7.0	2 34.9	3	6 39 43.7	+24 39 40	6.9	21 43.8
7	7 33 57.2	+20 38 31	7.0	2 30.4	4	6 39 04.7	+24 42 31	6.9	21 39.3
8	7 33 23.8	+20 42 06	7.0	2 25.9	5	6 38 27.6	+24 45 19	6.9	21 34.8
9	7 32 48.7	+20 45 47	7.0	2 21.4	6	6 37 52.3	+24 48 02	7.0	21 30.3
10	7 32 11.7	+20 49 33	6.9	2 16.8	7	6 37 18.9	+24 50 41	7.0	21 25.8
11	7 31 33.1	+20 53 25	6.9	2 12.3	8	6 36 47.5	+24 53 16	7.0	21 21.4
12	7 30 52.7	+20 57 21	6.9	2 07.7	9	6 36 18.0	+24 55 47	7.0	21 17.0
13	7 30 10.6	+21 01 22	6.9	2 03.0	10	6 35 50.4	+24 58 14	7.0	21 12.6
14	7 29 26.8	+21 05 27	6.8	1 58.4	11	6 35 24.8	+25 00 37	7.1	21 08.3
15	7 28 41.4	+21 09 37	6.8	1 53.7	12	6 35 01.2	+25 02 56	7.1	21 04.0
16	7 27 54.4	+21 13 51	6.8	1 49.0	13	6 34 39.6	+25 05 11	7.1	20 59.8
17	7 27 05.9	+21 18 09	6.8	1 44.2	14	6 34 20.0	+25 07 22	7.1	20 55.5
18	7 26 15.8	+21 22 30	6.8	1 39.5	15	6 34 02.3	+25 09 29	7.1	20 51.3
19	7 25 24.3	+21 26 56	6.7	1 34.7	16	6 33 46.7	+25 11 33	7.2	20 47.2
20	7 24 31.3	+21 31 24	6.7	1 29.9	17	6 33 33.1	+25 13 34	7.2	20 43.0
21	7 23 37.0	+21 35 55	6.7	1 25.1	18	6 33 21.4	+25 15 30	7.2	20 38.9
22	7 22 41.4	+21 40 29	6.7	1 20.2	19	6 33 11.8	+25 17 23	7.2	20 34.9
23	7 21 44.4	+21 45 05	6.6	1 15.3	20	6 33 04.2	+25 19 13	7.2	20 30.9
24	7 20 46.3	+21 49 44	6.6	1 10.4	21	6 32 58.5	+25 20 59	7.2	20 26.9
25	7 19 47.0	+21 54 24	6.6	1 05.5	22	6 32 54.9	+25 22 42	7.3	20 22.9
26	7 18 46.6	+21 59 06	6.6	1 00.6	<b>Feb.</b> 23	6 32 53.2	+25 24 22	7.3	20 19.0
27	7 17 45.2	+22 03 49	6.5	0 55.6	24	6 32 53.5	+25 25 58	7.3	20 15.1
28	7 16 42.9	+22 08 34	6.5	0 50.7	25	6 32 55.8	+25 27 31	7.3	20 11.2
29	7 15 39.7	+22 13 19	6.5	0 45.7	26	6 33 00.1	+25 29 01	7.3	20 07.4
30	7 14 35.7	+22 18 04	6.5	0 40.7	27	6 33 06.3	+25 30 27	7.4	20 03.6
31	7 13 30.9	+22 22 50	6.4	0 35.7	28	6 33 14.4	+25 31 51	7.4	19 59.8
<b>2006 Jan.</b> 1	7 12 25.6	+22 27 36	6.4	0 30.7	<b>Mar.</b> 1	6 33 24.5	+25 33 11	7.4	19 56.1
2	7 11 19.7	+22 32 21	6.4	0 25.7	2	6 33 36.5	+25 34 28	7.4	19 52.3
3	7 10 13.4	+22 37 05	6.3	0 20.6	3	6 33 50.3	+25 35 42	7.4	19 48.7
4	7 09 06.7	+22 41 48	6.3	0 15.6	4	6 34 06.1	+25 36 53	7.4	19 45.0
<b>Jan.</b> 5	7 07 59.7	+22 46 30	6.3	0 10.5	<b>Mar.</b> 5	6 34 23.7	+25 38 01	7.5	19 41.4

Second transit for Vesta 2006 January 7<sup>d</sup> 23<sup>h</sup> 55<sup>m</sup>.4

# HEBE, 2006

## GEOCENTRIC POSITIONS FOR 0<sup>h</sup> TERRESTRIAL TIME

Date	Astrometric					Vis. Mag.	Ephem- eris Transit	Date	Astrometric					Vis. Mag.	Ephem- eris Transit			
	R.A.			Dec.					R.A.			Dec.						
	h	m	s	°	'				"	h	m	s	°			'	"	h
<b>2006 June</b>	<b>7</b>	21 11	25.3	- 7	14	08	9.5	4	10-2	<b>2006 Aug.</b>	<b>5</b>	20 55	42.7	-14	02	54	7.8	0 02-5
	<b>8</b>	21 11	53.4	- 7	14	15	9.5	4 06.7		<b>6</b>	20 54	51.4	-14	16	04	7.8	23 52.9	
	<b>9</b>	21 12	20.1	- 7	14	33	9.5	4 03-2		<b>7</b>	20 54	00.0	-14	29	18	7.8	23 48-1	
	<b>10</b>	21 12	45.4	- 7	15	03	9.5	3 59-7		<b>8</b>	20 53	08.5	-14	42	35	7.9	23 43-3	
	<b>11</b>	21 13	09.3	- 7	15	44	9.4	3 56-1		<b>9</b>	20 52	17.1	-14	55	54	7.9	23 38-6	
	<b>12</b>	21 13	31.7	- 7	16	37	9.4	3 52-6		<b>10</b>	20 51	25.7	-15	09	15	7.9	23 33-8	
	<b>13</b>	21 13	52.7	- 7	17	43	9.4	3 49-0		<b>11</b>	20 50	34.6	-15	22	36	7.9	23 29-0	
	<b>14</b>	21 14	12.2	- 7	19	00	9.4	3 45-4		<b>12</b>	20 49	43.7	-15	35	58	8.0	23 24-2	
	<b>15</b>	21 14	30.1	- 7	20	31	9.3	3 41-7		<b>13</b>	20 48	53.1	-15	49	19	8.0	23 19-5	
	<b>16</b>	21 14	46.6	- 7	22	14	9.3	3 38-1		<b>14</b>	20 48	03.0	-16	02	39	8.0	23 14-7	
	<b>17</b>	21 15	01.5	- 7	24	10	9.3	3 34-4		<b>15</b>	20 47	13.4	-16	15	57	8.0	23 10-0	
	<b>18</b>	21 15	14.9	- 7	26	20	9.3	3 30-7		<b>16</b>	20 46	24.4	-16	29	12	8.0	23 05-2	
	<b>19</b>	21 15	26.7	- 7	28	43	9.2	3 26-9		<b>17</b>	20 45	36.0	-16	42	23	8.1	23 00-5	
	<b>20</b>	21 15	36.9	- 7	31	20	9.2	3 23-2		<b>18</b>	20 44	48.5	-16	55	31	8.1	22 55-8	
	<b>21</b>	21 15	45.4	- 7	34	12	9.2	3 19-4		<b>19</b>	20 44	01.7	-17	08	34	8.1	22 51-1	
	<b>22</b>	21 15	52.4	- 7	37	18	9.2	3 15-6		<b>20</b>	20 43	16.0	-17	21	31	8.1	22 46-5	
	<b>23</b>	21 15	57.7	- 7	40	38	9.1	3 11-7		<b>21</b>	20 42	31.2	-17	34	22	8.2	22 41-8	
	<b>24</b>	21 16	01.4	- 7	44	14	9.1	3 07-8		<b>22</b>	20 41	47.5	-17	47	07	8.2	22 37-2	
<b>June</b>	<b>25</b>	21 16	03.4	- 7	48	04	9.1	3 03-9		<b>23</b>	20 41	05.0	-17	59	44	8.2	22 32-5	
	<b>26</b>	21 16	03.8	- 7	52	10	9.0	3 00-0		<b>24</b>	20 40	23.8	-18	12	13	8.2	22 27-9	
	<b>27</b>	21 16	02.5	- 7	56	31	9.0	2 56-1		<b>25</b>	20 39	43.9	-18	24	34	8.2	22 23-4	
	<b>28</b>	21 15	59.5	- 8	01	08	9.0	2 52-1		<b>26</b>	20 39	05.4	-18	36	45	8.3	22 18-8	
	<b>29</b>	21 15	54.8	- 8	06	01	9.0	2 48-1		<b>27</b>	20 38	28.3	-18	48	47	8.3	22 14-3	
	<b>30</b>	21 15	48.5	- 8	11	10	8.9	2 44-0		<b>28</b>	20 37	52.8	-19	00	39	8.3	22 09-8	
<b>July</b>	<b>1</b>	21 15	40.5	- 8	16	34	8.9	2 39-9		<b>29</b>	20 37	18.9	-19	12	21	8.3	22 05-3	
	<b>2</b>	21 15	30.8	- 8	22	15	8.9	2 35-9		<b>30</b>	20 36	46.6	-19	23	51	8.4	22 00-9	
	<b>3</b>	21 15	19.5	- 8	28	12	8.9	2 31-7		<b>31</b>	20 36	16.0	-19	35	10	8.4	21 56-5	
	<b>4</b>	21 15	06.5	- 8	34	25	8.8	2 27-6		<b>Sept. 1</b>	20 35	47.2	-19	46	18	8.4	21 52-1	
	<b>5</b>	21 14	51.9	- 8	40	54	8.8	2 23-4		<b>2</b>	20 35	20.2	-19	57	13	8.4	21 47-8	
	<b>6</b>	21 14	35.5	- 8	47	39	8.8	2 19-2		<b>3</b>	20 34	55.0	-20	07	57	8.4	21 43-4	
	<b>7</b>	21 14	17.6	- 8	54	41	8.7	2 15-0		<b>4</b>	20 34	31.7	-20	18	27	8.5	21 39-2	
	<b>8</b>	21 13	58.0	- 9	01	59	8.7	2 10-7		<b>5</b>	20 34	10.3	-20	28	45	8.5	21 34-9	
	<b>9</b>	21 13	36.9	- 9	09	33	8.7	2 06-4		<b>6</b>	20 33	50.9	-20	38	50	8.5	21 30-7	
	<b>10</b>	21 13	14.1	- 9	17	24	8.7	2 02-1		<b>7</b>	20 33	33.4	-20	48	42	8.5	21 26-5	
	<b>11</b>	21 12	49.7	- 9	25	30	8.6	1 57-8		<b>8</b>	20 33	17.9	-20	58	20	8.5	21 22-3	
	<b>12</b>	21 12	23.8	- 9	33	53	8.6	1 53-4		<b>9</b>	20 33	04.5	-21	07	45	8.6	21 18-2	
	<b>13</b>	21 11	56.3	- 9	42	31	8.6	1 49-0		<b>10</b>	20 32	53.1	-21	16	56	8.6	21 14-1	
	<b>14</b>	21 11	27.2	- 9	51	25	8.5	1 44-6		<b>11</b>	20 32	43.7	-21	25	53	8.6	21 10-0	
	<b>15</b>	21 10	56.7	-10	00	35	8.5	1 40-2		<b>12</b>	20 32	36.5	-21	34	36	8.6	21 06-0	
	<b>16</b>	21 10	24.7	-10	10	00	8.5	1 35-7		<b>13</b>	20 32	31.3	-21	43	06	8.6	21 02-0	
	<b>17</b>	21 09	51.2	-10	19	41	8.4	1 31-2		<b>Sept. 14</b>	20 32	28.2	-21	51	21	8.7	20 58-1	
	<b>18</b>	21 09	16.3	-10	29	36	8.4	1 26-7		<b>15</b>	20 32	27.3	-21	59	23	8.7	20 54-2	
	<b>19</b>	21 08	40.0	-10	39	46	8.4	1 22-2		<b>16</b>	20 32	28.5	-22	07	10	8.7	20 50-3	
	<b>20</b>	21 08	02.3	-10	50	11	8.3	1 17-6		<b>17</b>	20 32	31.8	-22	14	42	8.7	20 46-4	
	<b>21</b>	21 07	23.4	-11	00	49	8.3	1 13-0		<b>18</b>	20 32	37.3	-22	22	01	8.7	20 42-6	
	<b>22</b>	21 06	43.2	-11	11	41	8.3	1 08-4		<b>19</b>	20 32	44.9	-22	29	05	8.8	20 38-9	
	<b>23</b>	21 06	01.8	-11	22	47	8.3	1 03-8		<b>20</b>	20 32	54.7	-22	35	54	8.8	20 35-1	
	<b>24</b>	21 05	19.2	-11	34	05	8.2	0 59-2		<b>21</b>	20 33	06.7	-22	42	30	8.8	20 31-4	
	<b>25</b>	21 04	35.6	-11	45	36	8.2	0 54-5		<b>22</b>	20 33	20.9	-22	48	51	8.8	20 27-8	
	<b>26</b>	21 03	50.9	-11	57	18	8.2	0 49-9		<b>23</b>	20 33	37.2	-22	54	57	8.8	20 24-1	
	<b>27</b>	21 03	05.2	-12	09	12	8.1	0 45-2		<b>24</b>	20 33	55.6	-23	00	50	8.9	20 20-5	
	<b>28</b>	21 02	18.7	-12	21	16	8.1	0 40-5		<b>25</b>	20 34	16.2	-23	06	28	8.9	20 17-0	
	<b>29</b>	21 01	31.3	-12	33	30	8.1	0 35-8		<b>26</b>	20 34	38.9	-23	11	52	8.9	20 13-4	
	<b>30</b>	21 00	43.2	-12	45	54	8.0	0 31-0		<b>27</b>	20 35	03.7	-23	17	01	8.9	20 10-0	
	<b>31</b>	20 59	54.4	-12	58	26	8.0	0 26-3		<b>28</b>	20 35	30.6	-23	21	57	8.9	20 06-5	
<b>Aug.</b>	<b>1</b>	20 59	04.9	-13	11	06	7.9	0 21-5		<b>29</b>	20 35	59.6	-23	26	38	9.0	20 03-1	
	<b>2</b>	20 58	15.0	-13	23	54	7.9	0 16-8		<b>30</b>	20 36	30.7	-23	31	06	9.0	19 59-7	
	<b>3</b>	20 57	24.6	-13	36	48	7.9	0 12-0		<b>Oct. 1</b>	20 37	03.8	-23	35	20	9.0	19 56-3	
	<b>4</b>	20 56	33.8	-13	49	49	7.8	0 07-2		<b>2</b>	20 37	39.0	-23	39	20	9.0	19 53-0	
<b>Aug.</b>	<b>5</b>	20 55	42.7	-14	02	54	7.8	0 02-5		<b>Oct. 3</b>	20 38	16.1	-23	43	06	9.0	19 49-7	

Second transit for Hebe 2006 August 5<sup>d</sup> 23<sup>h</sup> 57<sup>m</sup>7

IRIS, 2006  
GEOCENTRIC POSITIONS FOR 0<sup>h</sup> TERRESTRIAL TIME

G9

Date	Astrometric		Vis. Mag.	Ephem- eris Transit	Date	Astrometric		Vis. Mag.	Ephem- eris Transit
	R.A.	Dec.				R.A.	Dec.		
	h m s ° / "	° / "				h m s ° / "	° / "		
<b>2006 Sept. 16</b>	3 21 26.0	+25 52 43	8.4	3 42-2	<b>2006 Nov. 14</b>	3 13 36.9	+23 47 08	6.8	23 37-5
<b>17</b>	3 22 18.9	+25 56 40	8.4	3 39-1	<b>15</b>	3 12 45.3	+23 38 43	6.8	23 32-7
<b>18</b>	3 23 10.0	+26 00 27	8.4	3 36-0	<b>16</b>	3 11 54.0	+23 30 11	6.8	23 27-9
<b>19</b>	3 23 59.2	+26 04 03	8.3	3 32-9	<b>17</b>	3 11 03.2	+23 21 34	6.8	23 23-2
<b>20</b>	3 24 46.4	+26 07 29	8.3	3 29-7	<b>18</b>	3 10 12.8	+23 12 52	6.8	23 18-4
<b>21</b>	3 25 31.6	+26 10 45	8.3	3 26-6	<b>19</b>	3 09 23.1	+23 04 06	6.8	23 13-7
<b>22</b>	3 26 14.8	+26 13 50	8.3	3 23-3	<b>20</b>	3 08 34.2	+22 55 17	6.9	23 08-9
<b>23</b>	3 26 56.0	+26 16 44	8.2	3 20-1	<b>21</b>	3 07 46.1	+22 46 25	6.9	23 04-2
<b>24</b>	3 27 35.0	+26 19 27	8.2	3 16-8	<b>22</b>	3 06 59.1	+22 37 33	6.9	22 59-5
<b>25</b>	3 28 12.0	+26 21 59	8.2	3 13-5	<b>23</b>	3 06 13.1	+22 28 39	7.0	22 54-9
<b>26</b>	3 28 46.7	+26 24 20	8.2	3 10-1	<b>24</b>	3 05 28.4	+22 19 46	7.0	22 50-2
<b>27</b>	3 29 19.3	+26 26 30	8.1	3 06-7	<b>25</b>	3 04 44.9	+22 10 55	7.0	22 45-6
<b>28</b>	3 29 49.7	+26 28 28	8.1	3 03-3	<b>26</b>	3 04 02.9	+22 02 04	7.1	22 41-0
<b>29</b>	3 30 17.9	+26 30 14	8.1	2 59-8	<b>27</b>	3 03 22.3	+21 53 17	7.1	22 36-4
<b>30</b>	3 30 43.8	+26 31 49	8.1	2 56-3	<b>28</b>	3 02 43.3	+21 44 33	7.1	22 31-8
<b>Oct. 1</b>	3 31 07.4	+26 33 11	8.0	2 52-8	<b>29</b>	3 02 06.0	+21 35 53	7.2	22 27-3
<b>2</b>	3 31 28.8	+26 34 21	8.0	2 49-2	<b>30</b>	3 01 30.4	+21 27 18	7.2	22 22-8
<b>3</b>	3 31 47.8	+26 35 19	8.0	2 45-6	<b>Dec. 1</b>	3 00 56.6	+21 18 49	7.2	22 18-3
<b>4</b>	3 32 04.5	+26 36 05	8.0	2 41-9	<b>2</b>	3 00 24.6	+21 10 26	7.3	22 13-9
<b>5</b>	3 32 18.9	+26 36 38	7.9	2 38-2	<b>3</b>	2 59 54.6	+21 02 10	7.3	22 09-5
<b>6</b>	3 32 30.9	+26 36 58	7.9	2 34-5	<b>4</b>	2 59 26.5	+20 54 01	7.3	22 05-1
<b>7</b>	3 32 40.5	+26 37 05	7.9	2 30-7	<b>5</b>	2 59 00.3	+20 46 00	7.4	22 00-8
<b>8</b>	3 32 47.8	+26 36 59	7.8	2 26-9	<b>6</b>	2 58 36.3	+20 38 07	7.4	21 56-5
<b>9</b>	3 32 52.7	+26 36 39	7.8	2 23-0	<b>7</b>	2 58 14.2	+20 30 24	7.4	21 52-2
<b>Oct. 10</b>	3 32 55.1	+26 36 06	7.8	2 19-1	<b>8</b>	2 57 54.3	+20 22 50	7.5	21 48-0
<b>11</b>	3 32 55.2	+26 35 19	7.8	2 15-2	<b>9</b>	2 57 36.6	+20 15 25	7.5	21 43-8
<b>12</b>	3 32 52.8	+26 34 18	7.7	2 11-2	<b>10</b>	2 57 20.9	+20 08 12	7.5	21 39-7
<b>13</b>	3 32 48.0	+26 33 03	7.7	2 07-2	<b>11</b>	2 57 07.5	+20 01 09	7.6	21 35-5
<b>14</b>	3 32 40.8	+26 31 34	7.7	2 03-1	<b>12</b>	2 56 56.3	+19 54 17	7.6	21 31-5
<b>15</b>	3 32 31.2	+26 29 50	7.6	1 59-1	<b>13</b>	2 56 47.3	+19 47 36	7.6	21 27-4
<b>16</b>	3 32 19.2	+26 27 51	7.6	1 54-9	<b>14</b>	2 56 40.6	+19 41 08	7.7	21 23-4
<b>17</b>	3 32 04.9	+26 25 38	7.6	1 50-7	<b>15</b>	2 56 36.1	+19 34 51	7.7	21 19-4
<b>18</b>	3 31 48.2	+26 23 10	7.6	1 46-5	<b>Dec. 16</b>	2 56 33.8	+19 28 47	7.7	21 15-5
<b>19</b>	3 31 29.3	+26 20 26	7.5	1 42-3	<b>17</b>	2 56 33.9	+19 22 55	7.8	21 11-6
<b>20</b>	3 31 08.0	+26 17 28	7.5	1 38-0	<b>18</b>	2 56 36.2	+19 17 16	7.8	21 07-7
<b>21</b>	3 30 44.6	+26 14 15	7.5	1 33-7	<b>19</b>	2 56 40.8	+19 11 50	7.8	21 03-9
<b>22</b>	3 30 19.0	+26 10 46	7.4	1 29-3	<b>20</b>	2 56 47.7	+19 06 37	7.9	21 00-1
<b>23</b>	3 29 51.3	+26 07 03	7.4	1 24-9	<b>21</b>	2 56 56.9	+19 01 37	7.9	20 56-4
<b>24</b>	3 29 21.5	+26 03 04	7.4	1 20-5	<b>22</b>	2 57 08.3	+18 56 51	7.9	20 52-7
<b>25</b>	3 28 49.8	+25 58 50	7.4	1 16-0	<b>23</b>	2 57 22.0	+18 52 18	7.9	20 49-0
<b>26</b>	3 28 16.2	+25 54 21	7.3	1 11-6	<b>24</b>	2 57 38.0	+18 47 58	8.0	20 45-4
<b>27</b>	3 27 40.7	+25 49 37	7.3	1 07-0	<b>25</b>	2 57 56.1	+18 43 51	8.0	20 41-8
<b>28</b>	3 27 03.5	+25 44 39	7.3	1 02-5	<b>26</b>	2 58 16.5	+18 39 58	8.0	20 38-2
<b>29</b>	3 26 24.6	+25 39 25	7.2	0 57-9	<b>27</b>	2 58 39.1	+18 36 17	8.1	20 34-7
<b>30</b>	3 25 44.1	+25 33 58	7.2	0 53-3	<b>28</b>	2 59 03.9	+18 32 50	8.1	20 31-2
<b>31</b>	3 25 02.2	+25 28 16	7.2	0 48-7	<b>29</b>	2 59 30.8	+18 29 36	8.1	20 27-7
<b>Nov. 1</b>	3 24 18.8	+25 22 21	7.1	0 44-0	<b>30</b>	2 59 59.8	+18 26 35	8.2	20 24-3
<b>2</b>	3 23 34.2	+25 16 12	7.1	0 39-4	<b>31</b>	3 00 30.9	+18 23 46	8.2	20 20-9
<b>3</b>	3 22 48.5	+25 09 49	7.1	0 34-7	<b>2007 Jan. 1</b>	3 01 04.1	+18 21 10	8.2	20 17-6
<b>4</b>	3 22 01.6	+25 03 14	7.0	0 30-0	<b>2</b>	3 01 39.3	+18 18 46	8.2	20 14-2
<b>5</b>	3 21 13.7	+24 56 26	7.0	0 25-2	<b>3</b>	3 02 16.5	+18 16 34	8.3	20 11-0
<b>6</b>	3 20 25.0	+24 49 26	7.0	0 20-5	<b>4</b>	3 02 55.6	+18 14 34	8.3	20 07-7
<b>7</b>	3 19 35.5	+24 42 15	7.0	0 15-7	<b>5</b>	3 03 36.7	+18 12 46	8.3	20 04-5
<b>8</b>	3 18 45.3	+24 34 52	6.9	0 11-0	<b>6</b>	3 04 19.7	+18 11 10	8.4	20 01-3
<b>9</b>	3 17 54.6	+24 27 18	6.9	0 06-2	<b>7</b>	3 05 04.6	+18 09 44	8.4	19 58-1
<b>10</b>	3 17 03.5	+24 19 34	6.9	0 01-4	<b>8</b>	3 05 51.3	+18 08 30	8.4	19 55-0
<b>11</b>	3 16 12.0	+24 11 41	6.8	23 51-8	<b>9</b>	3 06 39.9	+18 07 27	8.4	19 51-9
<b>12</b>	3 15 20.3	+24 03 38	6.8	23 47-1	<b>10</b>	3 07 30.2	+18 06 34	8.5	19 48-8
<b>13</b>	3 14 28.6	+23 55 27	6.8	23 42-3	<b>11</b>	3 08 22.3	+18 05 52	8.5	19 45-8
<b>Nov. 14</b>	3 13 36.9	+23 47 08	6.8	23 37-5	<b>Jan. 12</b>	3 09 16.1	+18 05 20	8.5	19 42-8

Second transit for Iris 2006 November 10<sup>d</sup> 23<sup>h</sup> 56<sup>m</sup>6

FLORA, 2006  
GEOCENTRIC POSITIONS FOR 0<sup>h</sup> TERRESTRIAL TIME

Date	Astrometric					Vis. Mag.	Ephem- eris Transit	Date	Astrometric					Vis. Mag.	Ephem- eris Transit				
	R.A.			Dec.					R.A.			Dec.							
	h	m	s	°	'				''	h	m	s	°			'	''	h	m
<b>2006 Mar. 21</b>	16	19	02.6	-14	17	57	10.8	4	25.2	<b>2006 May 19</b>	15	49	23.9	-11	59	04	9.6	0	03.7
<b>22</b>	16	19	20.1	-14	16	44	10.8	4	21.6	<b>20</b>	15	48	19.1	-11	56	52	9.6	23	53.6
<b>23</b>	16	19	35.9	-14	15	27	10.8	4	17.9	<b>21</b>	15	47	14.3	-11	54	44	9.7	23	48.6
<b>24</b>	16	19	50.1	-14	14	06	10.8	4	14.2	<b>22</b>	15	46	09.4	-11	52	41	9.7	23	43.6
<b>25</b>	16	20	02.6	-14	12	41	10.8	4	10.5	<b>23</b>	15	45	04.7	-11	50	42	9.7	23	38.6
<b>26</b>	16	20	13.4	-14	11	12	10.8	4	06.7	<b>24</b>	15	44	00.0	-11	48	47	9.7	23	33.6
<b>27</b>	16	20	22.5	-14	09	39	10.7	4	02.9	<b>25</b>	15	42	55.6	-11	46	58	9.7	23	28.6
<b>28</b>	16	20	29.9	-14	08	02	10.7	3	59.1	<b>26</b>	15	41	51.6	-11	45	13	9.7	23	23.7
<b>29</b>	16	20	35.6	-14	06	22	10.7	3	55.3	<b>27</b>	15	40	47.8	-11	43	34	9.7	23	18.7
<b>30</b>	16	20	39.5	-14	04	38	10.7	3	51.4	<b>28</b>	15	39	44.6	-11	42	00	9.8	23	13.7
<b>Mar. 31</b>	16	20	41.7	-14	02	50	10.7	3	47.5	<b>29</b>	15	38	41.9	-11	40	32	9.8	23	08.7
<b>Apr. 1</b>	16	20	42.1	-14	00	59	10.6	3	43.6	<b>30</b>	15	37	39.8	-11	39	10	9.8	23	03.8
<b>2</b>	16	20	40.8	-13	59	05	10.6	3	39.6	<b>31</b>	15	36	38.4	-11	37	54	9.8	22	58.9
<b>3</b>	16	20	37.6	-13	57	07	10.6	3	35.6	<b>June 1</b>	15	35	37.7	-11	36	44	9.8	22	53.9
<b>4</b>	16	20	32.7	-13	55	06	10.6	3	31.6	<b>2</b>	15	34	37.8	-11	35	40	9.8	22	49.0
<b>5</b>	16	20	26.0	-13	53	02	10.6	3	27.6	<b>3</b>	15	33	38.8	-11	34	43	9.9	22	44.1
<b>6</b>	16	20	17.5	-13	50	55	10.5	3	23.5	<b>4</b>	15	32	40.8	-11	33	52	9.9	22	39.2
<b>7</b>	16	20	07.2	-13	48	45	10.5	3	19.4	<b>5</b>	15	31	43.7	-11	33	08	9.9	22	34.4
<b>8</b>	16	19	55.1	-13	46	32	10.5	3	15.3	<b>6</b>	15	30	47.7	-11	32	31	9.9	22	29.5
<b>9</b>	16	19	41.2	-13	44	16	10.5	3	11.1	<b>7</b>	15	29	52.8	-11	32	01	9.9	22	24.7
<b>10</b>	16	19	25.5	-13	41	57	10.5	3	06.9	<b>8</b>	15	28	59.0	-11	31	37	10.0	22	19.9
<b>11</b>	16	19	08.0	-13	39	36	10.4	3	02.7	<b>9</b>	15	28	06.5	-11	31	21	10.0	22	15.1
<b>12</b>	16	18	48.7	-13	37	12	10.4	2	58.4	<b>10</b>	15	27	15.2	-11	31	12	10.0	22	10.4
<b>13</b>	16	18	27.6	-13	34	46	10.4	2	54.1	<b>11</b>	15	26	25.2	-11	31	10	10.0	22	05.6
<b>14</b>	16	18	04.8	-13	32	18	10.4	2	49.8	<b>12</b>	15	25	36.5	-11	31	15	10.0	22	00.9
<b>15</b>	16	17	40.1	-13	29	47	10.3	2	45.5	<b>13</b>	15	24	49.2	-11	31	28	10.1	21	56.2
<b>16</b>	16	17	13.7	-13	27	14	10.3	2	41.1	<b>14</b>	15	24	03.3	-11	31	48	10.1	21	51.5
<b>17</b>	16	16	45.6	-13	24	39	10.3	2	36.7	<b>15</b>	15	23	18.9	-11	32	15	10.1	21	46.9
<b>18</b>	16	16	15.7	-13	22	02	10.3	2	32.3	<b>16</b>	15	22	35.9	-11	32	49	10.1	21	42.3
<b>19</b>	16	15	44.0	-13	19	24	10.3	2	27.8	<b>17</b>	15	21	54.4	-11	33	31	10.1	21	37.7
<b>20</b>	16	15	10.7	-13	16	43	10.2	2	23.3	<b>18</b>	15	21	14.5	-11	34	21	10.2	21	33.1
<b>21</b>	16	14	35.6	-13	14	01	10.2	2	18.8	<b>19</b>	15	20	36.1	-11	35	18	10.2	21	28.6
<b>22</b>	16	13	58.9	-13	11	18	10.2	2	14.3	<b>20</b>	15	19	59.3	-11	36	22	10.2	21	24.1
<b>23</b>	16	13	20.5	-13	08	33	10.2	2	09.7	<b>21</b>	15	19	24.1	-11	37	34	10.2	21	19.6
<b>24</b>	16	12	40.4	-13	05	47	10.1	2	05.1	<b>22</b>	15	18	50.6	-11	38	54	10.2	21	15.1
<b>25</b>	16	11	58.8	-13	03	00	10.1	2	00.5	<b>23</b>	15	18	18.7	-11	40	21	10.3	21	10.7
<b>26</b>	16	11	15.6	-13	00	12	10.1	1	55.8	<b>24</b>	15	17	48.5	-11	41	55	10.3	21	06.3
<b>27</b>	16	10	30.9	-12	57	23	10.1	1	51.2	<b>25</b>	15	17	20.1	-11	43	37	10.3	21	01.9
<b>28</b>	16	09	44.6	-12	54	34	10.1	1	46.5	<b>26</b>	15	16	53.3	-11	45	26	10.3	20	57.5
<b>29</b>	16	08	57.0	-12	51	45	10.0	1	41.7	<b>27</b>	15	16	28.3	-11	47	23	10.3	20	53.2
<b>30</b>	16	08	07.9	-12	48	55	10.0	1	37.0	<b>28</b>	15	16	05.0	-11	49	27	10.3	20	48.9
<b>May 1</b>	16	07	17.4	-12	46	06	10.0	1	32.2	<b>29</b>	15	15	43.4	-11	51	38	10.4	20	44.6
<b>2</b>	16	06	25.7	-12	43	17	10.0	1	27.4	<b>30</b>	15	15	23.6	-11	53	57	10.4	20	40.4
<b>3</b>	16	05	32.7	-12	40	28	9.9	1	22.6	<b>July 1</b>	15	15	05.6	-11	56	23	10.4	20	36.2
<b>4</b>	16	04	38.6	-12	37	40	9.9	1	17.8	<b>2</b>	15	14	49.3	-11	58	55	10.4	20	32.0
<b>5</b>	16	03	43.2	-12	34	53	9.9	1	12.9	<b>3</b>	15	14	34.8	-12	01	35	10.4	20	27.9
<b>6</b>	16	02	46.8	-12	32	06	9.9	1	08.1	<b>4</b>	15	14	22.0	-12	04	21	10.5	20	23.8
<b>7</b>	16	01	49.4	-12	29	21	9.9	1	03.2	<b>5</b>	15	14	11.0	-12	07	14	10.5	20	19.7
<b>8</b>	16	00	51.0	-12	26	38	9.8	0	58.3	<b>6</b>	15	14	01.8	-12	10	14	10.5	20	15.6
<b>9</b>	15	59	51.8	-12	23	55	9.8	0	53.4	<b>7</b>	15	13	54.2	-12	13	21	10.5	20	11.6
<b>10</b>	15	58	51.6	-12	21	15	9.8	0	48.4	<b>8</b>	15	13	48.5	-12	16	33	10.5	20	07.6
<b>11</b>	15	57	50.8	-12	18	37	9.8	0	43.5	<b>9</b>	15	13	44.4	-12	19	52	10.5	20	03.6
<b>12</b>	15	56	49.2	-12	16	00	9.7	0	38.6	<b>July 10</b>	15	13	42.1	-12	23	18	10.6	19	59.7
<b>13</b>	15	55	46.9	-12	13	27	9.7	0	33.6	<b>11</b>	15	13	41.4	-12	26	49	10.6	19	55.7
<b>14</b>	15	54	44.1	-12	10	55	9.7	0	28.6	<b>12</b>	15	13	42.5	-12	30	26	10.6	19	51.8
<b>15</b>	15	53	40.8	-12	08	27	9.7	0	23.6	<b>13</b>	15	13	45.2	-12	34	09	10.6	19	48.0
<b>16</b>	15	52	37.1	-12	06	01	9.7	0	18.6	<b>14</b>	15	13	49.7	-12	37	58	10.6	19	44.1
<b>17</b>	15	51	33.0	-12	03	39	9.7	0	13.7	<b>15</b>	15	13	55.7	-12	41	52	10.6	19	40.3
<b>18</b>	15	50	28.6	-12	01	19	9.7	0	08.7	<b>16</b>	15	14	03.5	-12	45	52	10.7	19	36.6
<b>May 19</b>	15	49	23.9	-11	59	04	9.6	0	03.7	<b>July 17</b>	15	14	12.8	-12	49	58	10.7	19	32.8

Second transit for Flora 2006 May 19<sup>d</sup> 23<sup>h</sup> 58<sup>m</sup>7

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

Date	Astrometric					Vis. Mag.	Ephem- eris Transit	Date	Astrometric					Vis. Mag.	Ephem- eris Transit
	R.A.			Dec.					R.A.			Dec.			
	h	m	s	°	'				"	h	m	s	°		
<b>2006 Jan.</b>	2	11 29	42.8	+11 08	36	10.3		<b>2006 Mar.</b>	2	11 09	55.7	+15 50	18	9.1	0 31.6
	3	11 30	13.4	+11 09	05	10.3		3	11 08	56.3	+15 56	09	9.1	0 26.7	
	4	11 30	42.4	+11 09	46	10.2		4	11 07	56.8	+16 01	51	9.2	0 21.8	
	5	11 31	09.7	+11 10	38	10.2		5	11 06	57.2	+16 07	26	9.2	0 16.8	
	6	11 31	35.3	+11 11	41	10.2		6	11 05	57.7	+16 12	50	9.2	0 11.9	
	7	11 31	59.1	+11 12	55	10.2		7	11 04	58.3	+16 18	06	9.2	0 07.0	
	8	11 32	21.3	+11 14	21	10.2		8	11 03	59.2	+16 23	11	9.2	0 02.1	
	9	11 32	41.7	+11 15	58	10.2		9	11 03	00.3	+16 28	05	9.2	23 52.3	
	10	11 33	00.3	+11 17	47	10.1		10	11 02	01.8	+16 32	49	9.3	23 47.4	
	11	11 33	17.2	+11 19	46	10.1		11	11 01	03.7	+16 37	22	9.3	23 42.5	
	12	11 33	32.2	+11 21	57	10.1		12	11 00	06.2	+16 41	43	9.3	23 37.6	
	13	11 33	45.5	+11 24	20	10.1		13	10 59	09.3	+16 45	53	9.3	23 32.8	
	14	11 33	56.9	+11 26	53	10.1		14	10 58	13.0	+16 49	51	9.4	23 27.9	
	15	11 34	06.5	+11 29	38	10.0		15	10 57	17.5	+16 53	36	9.4	23 23.1	
	16	11 34	14.2	+11 32	35	10.0		16	10 56	22.8	+16 57	09	9.4	23 18.3	
	17	11 34	20.0	+11 35	42	10.0		17	10 55	29.0	+17 00	30	9.4	23 13.4	
	18	11 34	24.0	+11 39	00	10.0		18	10 54	36.2	+17 03	37	9.5	23 08.7	
<b>Jan.</b>	19	11 34	26.1	+11 42	30	10.0		19	10 53	44.3	+17 06	32	9.5	23 03.9	
	20	11 34	26.2	+11 46	10	9.9		20	10 52	53.5	+17 09	14	9.5	22 59.1	
	21	11 34	24.5	+11 50	02	9.9		21	10 52	03.9	+17 11	43	9.5	22 54.4	
	22	11 34	20.8	+11 54	04	9.9		22	10 51	15.5	+17 13	59	9.6	22 49.7	
	23	11 34	15.1	+11 58	16	9.9		23	10 50	28.3	+17 16	01	9.6	22 45.0	
	24	11 34	07.6	+12 02	39	9.9		24	10 49	42.3	+17 17	51	9.6	22 40.3	
	25	11 33	58.0	+12 07	12	9.8		25	10 48	57.8	+17 19	27	9.6	22 35.7	
	26	11 33	46.6	+12 11	55	9.8		26	10 48	14.6	+17 20	49	9.7	22 31.0	
	27	11 33	33.2	+12 16	48	9.8		27	10 47	32.9	+17 21	58	9.7	22 26.4	
	28	11 33	17.8	+12 21	51	9.8		28	10 46	52.6	+17 22	54	9.7	22 21.9	
	29	11 33	00.6	+12 27	02	9.8		29	10 46	13.9	+17 23	37	9.7	22 17.3	
	30	11 32	41.4	+12 32	23	9.7		30	10 45	36.7	+17 24	06	9.8	22 12.8	
	31	11 32	20.3	+12 37	52	9.7		31	10 45	01.2	+17 24	22	9.8	22 08.3	
<b>Feb.</b>	1	11 31	57.3	+12 43	29	9.7		<b>Apr.</b>	1	10 44	27.3	+17 24	25	9.8	22 03.8
	2	11 31	32.4	+12 49	14	9.7		2	10 43	55.0	+17 24	15	9.9	21 59.4	
	3	11 31	05.7	+12 55	07	9.6		3	10 43	24.4	+17 23	52	9.9	21 55.0	
	4	11 30	37.2	+13 01	06	9.6		4	10 42	55.5	+17 23	16	9.9	21 50.6	
	5	11 30	06.9	+13 07	12	9.6		5	10 42	28.3	+17 22	27	9.9	21 46.2	
	6	11 29	34.8	+13 13	24	9.6		6	10 42	02.8	+17 21	27	10.0	21 41.9	
	7	11 29	01.0	+13 19	42	9.6		7	10 41	39.1	+17 20	14	10.0	21 37.6	
	8	11 28	25.5	+13 26	05	9.5		8	10 41	17.1	+17 18	48	10.0	21 33.3	
	9	11 27	48.4	+13 32	32	9.5		9	10 40	56.9	+17 17	11	10.0	21 29.1	
	10	11 27	09.6	+13 39	04	9.5		10	10 40	38.4	+17 15	22	10.1	21 24.9	
	11	11 26	29.3	+13 45	39	9.5		11	10 40	21.7	+17 13	22	10.1	21 20.7	
	12	11 25	47.4	+13 52	18	9.5		12	10 40	06.7	+17 11	11	10.1	21 16.5	
	13	11 25	04.0	+13 58	59	9.4		13	10 39	53.5	+17 08	48	10.1	21 12.4	
	14	11 24	19.2	+14 05	42	9.4		14	10 39	42.0	+17 06	14	10.1	21 08.3	
	15	11 23	33.0	+14 12	27	9.4		15	10 39	32.3	+17 03	30	10.2	21 04.3	
	16	11 22	45.4	+14 19	13	9.4		16	10 39	24.3	+17 00	35	10.2	21 00.2	
	17	11 21	56.6	+14 25	59	9.3		17	10 39	18.0	+16 57	29	10.2	20 56.2	
	18	11 21	06.6	+14 32	45	9.3		18	10 39	13.4	+16 54	14	10.2	20 52.2	
	19	11 20	15.3	+14 39	31	9.3		19	10 39	10.5	+16 50	49	10.3	20 48.3	
	20	11 19	23.0	+14 46	15	9.3		<b>Apr. 20</b>	10 39	09.3	+16 47	13	10.3	20 44.3	
	21	11 18	29.7	+14 52	58	9.3		21	10 39	09.8	+16 43	29	10.3	20 40.4	
	22	11 17	35.4	+14 59	38	9.2		22	10 39	12.0	+16 39	34	10.3	20 36.6	
	23	11 16	40.2	+15 06	15	9.2		23	10 39	15.8	+16 35	31	10.4	20 32.7	
	24	11 15	44.2	+15 12	48	9.2		24	10 39	21.2	+16 31	18	10.4	20 28.9	
	25	11 14	47.5	+15 19	17	9.2		25	10 39	28.3	+16 26	56	10.4	20 25.1	
	26	11 13	50.1	+15 25	41	9.2		26	10 39	37.0	+16 22	26	10.4	20 21.3	
	27	11 12	52.1	+15 32	00	9.2		27	10 39	47.4	+16 17	46	10.4	20 17.6	
	28	11 11	53.7	+15 38	13	9.2		28	10 39	59.2	+16 12	59	10.5	20 13.9	
<b>Mar.</b>	1	11 10	54.8	+15 44	19	9.1		29	10 40	12.7	+16 08	03	10.5	20 10.2	
<b>Mar. 2</b>	11 09	55.7	+15 50	18	9.1	0 31.6		<b>Apr. 30</b>	10 40	27.7	+16 02	58	10.5	20 06.5	

Second transit for Metis 2006 March 8<sup>d</sup> 23<sup>h</sup> 57<sup>m</sup> 2



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

Date	Astrometric					Vis. Mag.	Ephem- eris Transit	Date	Astrometric					Vis. Mag.	Ephem- eris Transit
	R.A.			Dec.					R.A.			Dec.			
	h	m	s	°	'				"	h	m	s	°		
<b>2006 May 15</b>	19 54	14.1		-21 19	02	10.4	4 23.6	<b>2006 July 13</b>	19 28	19.2		-21 09	18	9.2	0 05.8
<b>16</b>	19 54	26.7		-21 17	29	10.4	4 19.9	<b>14</b>	19 27	28.1		-21 09	49	9.2	0 01.0
<b>17</b>	19 54	37.9		-21 16	00	10.4	4 16.1	<b>15</b>	19 26	37.1		-21 10	19	9.2	23 51.4
<b>18</b>	19 54	47.6		-21 14	34	10.3	4 12.4	<b>16</b>	19 25	46.2		-21 10	48	9.3	23 46.7
<b>19</b>	19 54	55.7		-21 13	11	10.3	4 08.6	<b>17</b>	19 24	55.5		-21 11	17	9.3	23 41.9
<b>20</b>	19 55	02.4		-21 11	52	10.3	4 04.7	<b>18</b>	19 24	05.1		-21 11	45	9.4	23 37.1
<b>21</b>	19 55	07.6		-21 10	36	10.3	4 00.9	<b>19</b>	19 23	15.0		-21 12	12	9.4	23 32.4
<b>22</b>	19 55	11.3		-21 09	23	10.3	3 57.0	<b>20</b>	19 22	25.3		-21 12	38	9.4	23 27.6
<b>May 23</b>	19 55	13.4		-21 08	14	10.3	3 53.1	<b>21</b>	19 21	36.0		-21 13	02	9.4	23 22.9
<b>24</b>	19 55	14.1		-21 07	09	10.2	3 49.2	<b>22</b>	19 20	47.2		-21 13	26	9.5	23 18.2
<b>25</b>	19 55	13.2		-21 06	06	10.2	3 45.2	<b>23</b>	19 19	58.9		-21 13	48	9.5	23 13.4
<b>26</b>	19 55	10.7		-21 05	08	10.2	3 41.3	<b>24</b>	19 19	11.2		-21 14	10	9.5	23 08.7
<b>27</b>	19 55	06.8		-21 04	13	10.2	3 37.3	<b>25</b>	19 18	24.2		-21 14	30	9.6	23 04.0
<b>28</b>	19 55	01.3		-21 03	21	10.2	3 33.2	<b>26</b>	19 17	37.9		-21 14	48	9.6	22 59.3
<b>29</b>	19 54	54.3		-21 02	33	10.2	3 29.2	<b>27</b>	19 16	52.4		-21 15	05	9.6	22 54.7
<b>30</b>	19 54	45.7		-21 01	48	10.1	3 25.1	<b>28</b>	19 16	07.6		-21 15	21	9.6	22 50.0
<b>31</b>	19 54	35.7		-21 01	07	10.1	3 21.0	<b>29</b>	19 15	23.7		-21 15	36	9.7	22 45.4
<b>June 1</b>	19 54	24.1		-21 00	29	10.1	3 16.9	<b>30</b>	19 14	40.7		-21 15	49	9.7	22 40.7
<b>2</b>	19 54	11.1		-20 59	54	10.1	3 12.7	<b>31</b>	19 13	58.7		-21 16	00	9.7	22 36.1
<b>3</b>	19 53	56.6		-20 59	23	10.1	3 08.5	<b>Aug. 1</b>	19 13	17.6		-21 16	10	9.7	22 31.5
<b>4</b>	19 53	40.6		-20 58	55	10.1	3 04.3	<b>2</b>	19 12	37.5		-21 16	19	9.7	22 26.9
<b>5</b>	19 53	23.1		-20 58	31	10.0	3 00.1	<b>3</b>	19 11	58.5		-21 16	25	9.8	22 22.4
<b>6</b>	19 53	04.2		-20 58	09	10.0	2 55.9	<b>4</b>	19 11	20.7		-21 16	31	9.8	22 17.8
<b>7</b>	19 52	43.8		-20 57	51	10.0	2 51.6	<b>5</b>	19 10	43.9		-21 16	35	9.8	22 13.3
<b>8</b>	19 52	22.0		-20 57	36	10.0	2 47.3	<b>6</b>	19 10	08.3		-21 16	37	9.8	22 08.8
<b>9</b>	19 51	58.8		-20 57	23	10.0	2 43.0	<b>7</b>	19 09	33.9		-21 16	38	9.9	22 04.3
<b>10</b>	19 51	34.2		-20 57	14	9.9	2 38.6	<b>8</b>	19 09	00.7		-21 16	37	9.9	21 59.9
<b>11</b>	19 51	08.2		-20 57	07	9.9	2 34.3	<b>9</b>	19 08	28.8		-21 16	35	9.9	21 55.4
<b>12</b>	19 50	40.9		-20 57	04	9.9	2 29.9	<b>10</b>	19 07	58.1		-21 16	31	9.9	21 51.0
<b>13</b>	19 50	12.2		-20 57	03	9.9	2 25.5	<b>11</b>	19 07	28.7		-21 16	26	10.0	21 46.6
<b>14</b>	19 49	42.2		-20 57	05	9.9	2 21.1	<b>12</b>	19 07	00.6		-21 16	19	10.0	21 42.2
<b>15</b>	19 49	11.0		-20 57	09	9.8	2 16.6	<b>13</b>	19 06	33.8		-21 16	11	10.0	21 37.9
<b>16</b>	19 48	38.4		-20 57	15	9.8	2 12.1	<b>14</b>	19 06	08.4		-21 16	01	10.0	21 33.5
<b>17</b>	19 48	04.6		-20 57	25	9.8	2 07.6	<b>15</b>	19 05	44.4		-21 15	50	10.0	21 29.2
<b>18</b>	19 47	29.6		-20 57	36	9.8	2 03.1	<b>16</b>	19 05	21.7		-21 15	37	10.1	21 24.9
<b>19</b>	19 46	53.4		-20 57	50	9.8	1 58.6	<b>17</b>	19 05	00.4		-21 15	23	10.1	21 20.7
<b>20</b>	19 46	16.1		-20 58	05	9.7	1 54.0	<b>18</b>	19 04	40.6		-21 15	08	10.1	21 16.4
<b>21</b>	19 45	37.6		-20 58	23	9.7	1 49.5	<b>19</b>	19 04	22.2		-21 14	51	10.1	21 12.2
<b>22</b>	19 44	58.0		-20 58	43	9.7	1 44.9	<b>20</b>	19 04	05.2		-21 14	33	10.1	21 08.0
<b>23</b>	19 44	17.4		-20 59	04	9.7	1 40.3	<b>21</b>	19 03	49.6		-21 14	14	10.2	21 03.9
<b>24</b>	19 43	35.8		-20 59	27	9.7	1 35.7	<b>22</b>	19 03	35.6		-21 13	53	10.2	20 59.7
<b>25</b>	19 42	53.2		-20 59	52	9.6	1 31.0	<b>23</b>	19 03	23.0		-21 13	30	10.2	20 55.6
<b>26</b>	19 42	09.7		-21 00	18	9.6	1 26.4	<b>24</b>	19 03	11.9		-21 13	06	10.2	20 51.5
<b>27</b>	19 41	25.3		-21 00	45	9.6	1 21.7	<b>25</b>	19 03	02.3		-21 12	41	10.2	20 47.4
<b>28</b>	19 40	40.1		-21 01	14	9.6	1 17.0	<b>26</b>	19 02	54.1		-21 12	14	10.3	20 43.4
<b>29</b>	19 39	54.1		-21 01	43	9.6	1 12.3	<b>27</b>	19 02	47.5		-21 11	46	10.3	20 39.4
<b>30</b>	19 39	07.4		-21 02	14	9.5	1 07.6	<b>28</b>	19 02	42.3		-21 11	17	10.3	20 35.4
<b>July 1</b>	19 38	20.1		-21 02	45	9.5	1 02.9	<b>29</b>	19 02	38.6		-21 10	46	10.3	20 31.4
<b>2</b>	19 37	32.1		-21 03	17	9.5	0 58.2	<b>30</b>	19 02	36.4		-21 10	13	10.3	20 27.5
<b>3</b>	19 36	43.6		-21 03	50	9.5	0 53.4	<b>Aug. 31</b>	19 02	35.7		-21 09	39	10.4	20 23.5
<b>4</b>	19 35	54.5		-21 04	22	9.4	0 48.7	<b>Sept. 1</b>	19 02	36.5		-21 09	04	10.4	20 19.6
<b>5</b>	19 35	05.0		-21 04	56	9.4	0 43.9	<b>2</b>	19 02	38.8		-21 08	27	10.4	20 15.8
<b>6</b>	19 34	15.1		-21 05	29	9.4	0 39.2	<b>3</b>	19 02	42.5		-21 07	49	10.4	20 11.9
<b>7</b>	19 33	24.9		-21 06	02	9.4	0 34.4	<b>4</b>	19 02	47.6		-21 07	09	10.4	20 08.1
<b>8</b>	19 32	34.3		-21 06	36	9.3	0 29.6	<b>5</b>	19 02	54.2		-21 06	28	10.5	20 04.3
<b>9</b>	19 31	43.5		-21 07	09	9.3	0 24.9	<b>6</b>	19 03	02.2		-21 05	45	10.5	20 00.5
<b>10</b>	19 30	52.6		-21 07	42	9.3	0 20.1	<b>7</b>	19 03	11.7		-21 05	00	10.5	19 56.7
<b>11</b>	19 30	01.5		-21 08	14	9.2	0 15.3	<b>8</b>	19 03	22.6		-21 04	15	10.5	19 53.0
<b>12</b>	19 29	10.4		-21 08	46	9.2	0 10.5	<b>9</b>	19 03	34.8		-21 03	27	10.5	19 49.3
<b>July 13</b>	19 28	19.2		-21 09	18	9.2	0 05.8	<b>Sept. 10</b>	19 03	48.5		-21 02	38	10.6	19 45.6

Second transit for Hygiea 2006 July 14<sup>d</sup> 23<sup>h</sup> 56<sup>m</sup> 2

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

Date	Astrometric		Vis. Mag.	Ephem- eris Transit	Date	Astrometric		Vis. Mag.	Ephem- eris Transit
	R.A.	Dec.				R.A.	Dec.		
	h m s	° ' "				h m s	° ' "		
<b>2006 June 1</b>	21 01 24.0	-17 05 12	9.8	4 23.7	<b>2006 July 30</b>	20 31 21.1	-14 08 07	8.3	0 01.8
<b>2</b>	21 01 37.1	-17 00 28	9.8	4 20.0	<b>31</b>	20 30 18.8	-14 06 39	8.3	23 51.8
<b>3</b>	21 01 48.7	-16 55 47	9.7	4 16.3	<b>Aug. 1</b>	20 29 16.5	-14 05 12	8.4	23 46.9
<b>4</b>	21 01 58.8	-16 51 10	9.7	4 12.5	<b>2</b>	20 28 14.3	-14 03 47	8.4	23 41.9
<b>5</b>	21 02 07.4	-16 46 36	9.7	4 08.7	<b>3</b>	20 27 12.2	-14 02 23	8.4	23 37.0
<b>6</b>	21 02 14.5	-16 42 05	9.7	4 04.9	<b>4</b>	20 26 10.3	-14 01 01	8.4	23 32.0
<b>7</b>	21 02 20.0	-16 37 38	9.7	4 01.0	<b>5</b>	20 25 08.8	-13 59 39	8.4	23 27.1
<b>8</b>	21 02 23.9	-16 33 14	9.6	3 57.2	<b>6</b>	20 24 07.6	-13 58 19	8.4	23 22.1
<b>9</b>	21 02 26.3	-16 28 53	9.6	3 53.3	<b>7</b>	20 23 06.8	-13 56 59	8.5	23 17.2
<b>June 10</b>	21 02 27.1	-16 24 36	9.6	3 49.4	<b>8</b>	20 22 06.6	-13 55 40	8.5	23 12.3
<b>11</b>	21 02 26.3	-16 20 23	9.6	3 45.4	<b>9</b>	20 21 06.9	-13 54 23	8.5	23 07.4
<b>12</b>	21 02 23.9	-16 16 13	9.5	3 41.4	<b>10</b>	20 20 07.9	-13 53 06	8.5	23 02.5
<b>13</b>	21 02 19.9	-16 12 06	9.5	3 37.4	<b>11</b>	20 19 09.6	-13 51 49	8.5	22 57.6
<b>14</b>	21 02 14.3	-16 08 03	9.5	3 33.4	<b>12</b>	20 18 12.0	-13 50 33	8.6	22 52.7
<b>15</b>	21 02 07.0	-16 04 05	9.5	3 29.3	<b>13</b>	20 17 15.3	-13 49 18	8.6	22 47.9
<b>16</b>	21 01 58.1	-16 00 09	9.4	3 25.3	<b>14</b>	20 16 19.5	-13 48 03	8.6	22 43.0
<b>17</b>	21 01 47.5	-15 56 18	9.4	3 21.2	<b>15</b>	20 15 24.7	-13 46 49	8.6	22 38.2
<b>18</b>	21 01 35.3	-15 52 30	9.4	3 17.0	<b>16</b>	20 14 30.9	-13 45 35	8.6	22 33.4
<b>19</b>	21 01 21.4	-15 48 47	9.4	3 12.8	<b>17</b>	20 13 38.1	-13 44 21	8.7	22 28.6
<b>20</b>	21 01 05.9	-15 45 07	9.4	3 08.7	<b>18</b>	20 12 46.6	-13 43 08	8.7	22 23.8
<b>21</b>	21 00 48.7	-15 41 31	9.3	3 04.4	<b>19</b>	20 11 56.2	-13 41 55	8.7	22 19.1
<b>22</b>	21 00 29.8	-15 37 59	9.3	3 00.2	<b>20</b>	20 11 07.1	-13 40 41	8.7	22 14.4
<b>23</b>	21 00 09.2	-15 34 32	9.3	2 55.9	<b>21</b>	20 10 19.3	-13 39 28	8.7	22 09.6
<b>24</b>	20 59 47.0	-15 31 08	9.3	2 51.6	<b>22</b>	20 09 32.8	-13 38 15	8.8	22 05.0
<b>25</b>	20 59 23.1	-15 27 48	9.2	2 47.3	<b>23</b>	20 08 47.8	-13 37 01	8.8	22 00.3
<b>26</b>	20 58 57.6	-15 24 32	9.2	2 42.9	<b>24</b>	20 08 04.3	-13 35 48	8.8	21 55.7
<b>27</b>	20 58 30.4	-15 21 21	9.2	2 38.5	<b>25</b>	20 07 22.3	-13 34 33	8.8	21 51.1
<b>28</b>	20 58 01.6	-15 18 13	9.2	2 34.1	<b>26</b>	20 06 41.8	-13 33 19	8.8	21 46.5
<b>29</b>	20 57 31.2	-15 15 09	9.1	2 29.7	<b>27</b>	20 06 02.9	-13 32 04	8.9	21 41.9
<b>30</b>	20 56 59.2	-15 12 09	9.1	2 25.2	<b>28</b>	20 05 25.7	-13 30 48	8.9	21 37.4
<b>July 1</b>	20 56 25.6	-15 09 13	9.1	2 20.7	<b>29</b>	20 04 50.1	-13 29 32	8.9	21 32.9
<b>2</b>	20 55 50.5	-15 06 21	9.1	2 16.2	<b>30</b>	20 04 16.2	-13 28 15	8.9	21 28.5
<b>3</b>	20 55 13.8	-15 03 32	9.0	2 11.7	<b>31</b>	20 03 44.0	-13 26 57	8.9	21 24.0
<b>4</b>	20 54 35.7	-15 00 48	9.0	2 07.1	<b>Sept. 1</b>	20 03 13.5	-13 25 39	8.9	21 19.6
<b>5</b>	20 53 56.1	-14 58 07	9.0	2 02.5	<b>2</b>	20 02 44.9	-13 24 19	9.0	21 15.2
<b>6</b>	20 53 15.0	-14 55 29	9.0	1 57.9	<b>3</b>	20 02 18.0	-13 22 59	9.0	21 10.9
<b>7</b>	20 52 32.5	-14 52 56	8.9	1 53.3	<b>4</b>	20 01 52.9	-13 21 37	9.0	21 06.6
<b>8</b>	20 51 48.6	-14 50 25	8.9	1 48.6	<b>5</b>	20 01 29.6	-13 20 14	9.0	21 02.3
<b>9</b>	20 51 03.3	-14 47 59	8.9	1 43.9	<b>6</b>	20 01 08.1	-13 18 51	9.0	20 58.0
<b>10</b>	20 50 16.8	-14 45 35	8.9	1 39.2	<b>7</b>	20 00 48.5	-13 17 25	9.1	20 53.8
<b>11</b>	20 49 28.9	-14 43 15	8.8	1 34.5	<b>8</b>	20 00 30.7	-13 15 59	9.1	20 49.6
<b>12</b>	20 48 39.8	-14 40 59	8.8	1 29.7	<b>9</b>	20 00 14.7	-13 14 32	9.1	20 45.4
<b>13</b>	20 47 49.5	-14 38 45	8.8	1 25.0	<b>10</b>	20 00 00.6	-13 13 03	9.1	20 41.3
<b>14</b>	20 46 58.1	-14 36 35	8.7	1 20.2	<b>11</b>	19 59 48.4	-13 11 32	9.1	20 37.2
<b>15</b>	20 46 05.5	-14 34 28	8.7	1 15.4	<b>12</b>	19 59 38.0	-13 10 00	9.1	20 33.1
<b>16</b>	20 45 11.9	-14 32 24	8.7	1 10.6	<b>13</b>	19 59 29.4	-13 08 27	9.2	20 29.0
<b>17</b>	20 44 17.2	-14 30 23	8.7	1 05.7	<b>14</b>	19 59 22.7	-13 06 52	9.2	20 25.0
<b>18</b>	20 43 21.6	-14 28 25	8.6	1 00.9	<b>15</b>	19 59 17.9	-13 05 15	9.2	20 21.0
<b>19</b>	20 42 25.0	-14 26 30	8.6	0 56.0	<b>16</b>	19 59 14.9	-13 03 37	9.2	20 17.1
<b>20</b>	20 41 27.6	-14 24 38	8.6	0 51.1	<b>Sept. 17</b>	19 59 13.8	-13 01 57	9.2	20 13.1
<b>21</b>	20 40 29.4	-14 22 48	8.6	0 46.2	<b>18</b>	19 59 14.5	-13 00 15	9.2	20 09.3
<b>22</b>	20 39 30.5	-14 21 01	8.5	0 41.3	<b>19</b>	19 59 17.1	-12 58 31	9.3	20 05.4
<b>23</b>	20 38 30.9	-14 19 17	8.5	0 36.4	<b>20</b>	19 59 21.5	-12 56 45	9.3	20 01.6
<b>24</b>	20 37 30.7	-14 17 35	8.5	0 31.5	<b>21</b>	19 59 27.7	-12 54 56	9.3	19 57.8
<b>25</b>	20 36 30.0	-14 15 55	8.4	0 26.5	<b>22</b>	19 59 35.8	-12 53 06	9.3	19 54.0
<b>26</b>	20 35 28.8	-14 14 17	8.4	0 21.6	<b>23</b>	19 59 45.7	-12 51 13	9.3	19 50.2
<b>27</b>	20 34 27.3	-14 12 42	8.4	0 16.6	<b>24</b>	19 59 57.4	-12 49 18	9.3	19 46.5
<b>28</b>	20 33 25.4	-14 11 09	8.4	0 11.7	<b>25</b>	20 00 10.9	-12 47 20	9.4	19 42.8
<b>29</b>	20 32 23.3	-14 09 37	8.4	0 06.7	<b>26</b>	20 00 26.1	-12 45 19	9.4	19 39.2
<b>July 30</b>	20 31 21.1	-14 08 07	8.3	0 01.8	<b>Sept. 27</b>	20 00 43.2	-12 43 16	9.4	19 35.6

Second transit for Eunomia 2006 July 30<sup>d</sup> 23<sup>h</sup> 56<sup>m</sup>8

EUROPA, 2006  
GEOCENTRIC POSITIONS FOR 0<sup>h</sup> TERRESTRIAL TIME

Date	Astrometric				Vis. Mag.	Ephem- eris Transit	Date	Astrometric				Vis. Mag.	Ephem- eris Transit		
	R.A.		Dec.					R.A.		Dec.					
	h	m	s	°				'	"	h	m			s	°
<b>2006 Mar.</b>	<b>5</b>	15 18	35.0	- 8 58	55	11.7	4 27.8	<b>2006 May</b>	<b>3</b>	14 56	45.4	- 5 28	11	10.8	0 14.0
	<b>6</b>	15 18	47.6	- 8 56	47	11.7	4 24.1		<b>4</b>	14 55	59.4	- 5 24	49	10.8	0 09.3
	<b>7</b>	15 18	58.9	- 8 54	34	11.7	4 20.3		<b>5</b>	14 55	13.3	- 5 21	33	10.8	0 04.7
	<b>8</b>	15 19	08.9	- 8 52	16	11.7	4 16.6		<b>6</b>	14 54	27.2	- 5 18	22	10.9	23 55.3
	<b>9</b>	15 19	17.6	- 8 49	52	11.7	4 12.8		<b>7</b>	14 53	41.2	- 5 15	16	10.9	23 50.6
	<b>10</b>	15 19	25.0	- 8 47	24	11.6	4 09.0		<b>8</b>	14 52	55.2	- 5 12	15	10.9	23 45.9
	<b>11</b>	15 19	31.1	- 8 44	51	11.6	4 05.1		<b>9</b>	14 52	09.4	- 5 09	20	10.9	23 41.2
	<b>12</b>	15 19	35.8	- 8 42	13	11.6	4 01.3		<b>10</b>	14 51	23.8	- 5 06	30	10.9	23 36.5
	<b>13</b>	15 19	39.3	- 8 39	31	11.6	3 57.4		<b>11</b>	14 50	38.4	- 5 03	46	10.9	23 31.8
	<b>14</b>	15 19	41.4	- 8 36	44	11.6	3 53.5		<b>12</b>	14 49	53.3	- 5 01	09	10.9	23 27.2
<b>Mar.</b>	<b>15</b>	15 19	42.2	- 8 33	52	11.6	3 49.6		<b>13</b>	14 49	08.4	- 4 58	37	10.9	23 22.5
	<b>16</b>	15 19	41.6	- 8 30	55	11.6	3 45.6		<b>14</b>	14 48	23.9	- 4 56	11	11.0	23 17.8
	<b>17</b>	15 19	39.8	- 8 27	54	11.5	3 41.7		<b>15</b>	14 47	39.9	- 4 53	52	11.0	23 13.2
	<b>18</b>	15 19	36.6	- 8 24	49	11.5	3 37.7		<b>16</b>	14 46	56.2	- 4 51	40	11.0	23 08.5
	<b>19</b>	15 19	32.0	- 8 21	40	11.5	3 33.7		<b>17</b>	14 46	13.0	- 4 49	34	11.0	23 03.9
	<b>20</b>	15 19	26.1	- 8 18	26	11.5	3 29.6		<b>18</b>	14 45	30.3	- 4 47	35	11.0	22 59.2
	<b>21</b>	15 19	18.9	- 8 15	09	11.5	3 25.6		<b>19</b>	14 44	48.2	- 4 45	43	11.0	22 54.6
	<b>22</b>	15 19	10.4	- 8 11	47	11.5	3 21.5		<b>20</b>	14 44	06.6	- 4 43	58	11.1	22 50.0
	<b>23</b>	15 19	00.5	- 8 08	21	11.4	3 17.4		<b>21</b>	14 43	25.7	- 4 42	19	11.1	22 45.4
	<b>24</b>	15 18	49.3	- 8 04	52	11.4	3 13.3		<b>22</b>	14 42	45.4	- 4 40	49	11.1	22 40.8
	<b>25</b>	15 18	36.7	- 8 01	20	11.4	3 09.2		<b>23</b>	14 42	05.8	- 4 39	25	11.1	22 36.3
	<b>26</b>	15 18	22.9	- 7 57	43	11.4	3 05.0		<b>24</b>	14 41	26.9	- 4 38	09	11.1	22 31.7
	<b>27</b>	15 18	07.7	- 7 54	04	11.4	3 00.8		<b>25</b>	14 40	48.8	- 4 37	00	11.2	22 27.1
	<b>28</b>	15 17	51.3	- 7 50	21	11.4	2 56.6		<b>26</b>	14 40	11.4	- 4 35	58	11.2	22 22.6
	<b>29</b>	15 17	33.5	- 7 46	35	11.3	2 52.4		<b>27</b>	14 39	34.9	- 4 35	05	11.2	22 18.1
	<b>30</b>	15 17	14.5	- 7 42	46	11.3	2 48.1		<b>28</b>	14 38	59.3	- 4 34	19	11.2	22 13.6
	<b>31</b>	15 16	54.2	- 7 38	55	11.3	2 43.8		<b>29</b>	14 38	24.5	- 4 33	40	11.2	22 09.1
<b>Apr.</b>	<b>1</b>	15 16	32.6	- 7 35	01	11.3	2 39.6		<b>30</b>	14 37	50.7	- 4 33	10	11.3	22 04.6
	<b>2</b>	15 16	09.9	- 7 31	05	11.3	2 35.2		<b>31</b>	14 37	17.8	- 4 32	47	11.3	22 00.1
	<b>3</b>	15 15	45.9	- 7 27	07	11.3	2 30.9		<b>June 1</b>	14 36	45.8	- 4 32	31	11.3	21 55.7
	<b>4</b>	15 15	20.8	- 7 23	07	11.3	2 26.6		<b>2</b>	14 36	14.9	- 4 32	24	11.3	21 51.3
	<b>5</b>	15 14	54.5	- 7 19	05	11.2	2 22.2		<b>3</b>	14 35	44.9	- 4 32	24	11.3	21 46.8
	<b>6</b>	15 14	27.0	- 7 15	02	11.2	2 17.8		<b>4</b>	14 35	16.0	- 4 32	32	11.3	21 42.4
	<b>7</b>	15 13	58.4	- 7 10	57	11.2	2 13.4		<b>5</b>	14 34	48.1	- 4 32	48	11.4	21 38.1
	<b>8</b>	15 13	28.8	- 7 06	51	11.2	2 09.0		<b>6</b>	14 34	21.3	- 4 33	11	11.4	21 33.7
	<b>9</b>	15 12	58.1	- 7 02	44	11.2	2 04.5		<b>7</b>	14 33	55.5	- 4 33	42	11.4	21 29.4
	<b>10</b>	15 12	26.3	- 6 58	36	11.2	2 00.1		<b>8</b>	14 33	30.9	- 4 34	20	11.4	21 25.0
	<b>11</b>	15 11	53.5	- 6 54	28	11.1	1 55.6		<b>9</b>	14 33	07.3	- 4 35	06	11.4	21 20.7
	<b>12</b>	15 11	19.8	- 6 50	19	11.1	1 51.1		<b>10</b>	14 32	44.9	- 4 36	00	11.5	21 16.4
	<b>13</b>	15 10	45.1	- 6 46	10	11.1	1 46.6		<b>11</b>	14 32	23.5	- 4 37	00	11.5	21 12.2
	<b>14</b>	15 10	09.5	- 6 42	01	11.1	1 42.1		<b>12</b>	14 32	03.3	- 4 38	08	11.5	21 07.9
	<b>15</b>	15 09	32.9	- 6 37	52	11.1	1 37.5		<b>13</b>	14 31	44.3	- 4 39	24	11.5	21 03.7
	<b>16</b>	15 08	55.6	- 6 33	44	11.1	1 33.0		<b>14</b>	14 31	26.4	- 4 40	46	11.5	20 59.5
	<b>17</b>	15 08	17.4	- 6 29	37	11.0	1 28.4		<b>15</b>	14 31	09.6	- 4 42	16	11.5	20 55.3
	<b>18</b>	15 07	38.4	- 6 25	30	11.0	1 23.8		<b>16</b>	14 30	54.0	- 4 43	53	11.6	20 51.1
	<b>19</b>	15 06	58.6	- 6 21	24	11.0	1 19.2		<b>17</b>	14 30	39.5	- 4 45	37	11.6	20 47.0
	<b>20</b>	15 06	18.1	- 6 17	20	11.0	1 14.6		<b>18</b>	14 30	26.2	- 4 47	28	11.6	20 42.8
	<b>21</b>	15 05	37.0	- 6 13	17	11.0	1 10.0		<b>19</b>	14 30	14.1	- 4 49	25	11.6	20 38.7
	<b>22</b>	15 04	55.2	- 6 09	16	11.0	1 05.4		<b>20</b>	14 30	03.2	- 4 51	30	11.6	20 34.6
	<b>23</b>	15 04	12.8	- 6 05	17	10.9	1 00.8		<b>21</b>	14 29	53.4	- 4 53	41	11.6	20 30.5
	<b>24</b>	15 03	29.8	- 6 01	20	10.9	0 56.1		<b>22</b>	14 29	44.9	- 4 55	59	11.7	20 26.5
	<b>25</b>	15 02	46.3	- 5 57	26	10.9	0 51.5		<b>23</b>	14 29	37.5	- 4 58	24	11.7	20 22.4
	<b>26</b>	15 02	02.4	- 5 53	34	10.9	0 46.8		<b>24</b>	14 29	31.3	- 5 00	55	11.7	20 18.4
	<b>27</b>	15 01	18.0	- 5 49	46	10.9	0 42.1		<b>25</b>	14 29	26.2	- 5 03	32	11.7	20 14.4
	<b>28</b>	15 00	33.2	- 5 46	00	10.9	0 37.5		<b>26</b>	14 29	22.4	- 5 06	16	11.7	20 10.4
	<b>29</b>	14 59	48.1	- 5 42	19	10.9	0 32.8		<b>27</b>	14 29	19.8	- 5 09	06	11.7	20 06.5
	<b>30</b>	14 59	02.8	- 5 38	40	10.9	0 28.1		<b>June 28</b>	14 29	18.3	- 5 12	02	11.8	20 02.6
<b>May</b>	<b>1</b>	14 58	17.1	- 5 35	06	10.9	0 23.4		<b>29</b>	14 29	18.0	- 5 15	05	11.8	19 58.6
	<b>2</b>	14 57	31.3	- 5 31	36	10.8	0 18.7		<b>30</b>	14 29	18.9	- 5 18	13	11.8	19 54.7
<b>May</b>	<b>3</b>	14 56	45.4	- 5 28	11	10.8	0 14.0		<b>July 1</b>	14 29	21.0	- 5 21	27	11.8	19 50.8

Second transit for Europa 2006 May 5<sup>d</sup> 24<sup>h</sup> 00<sup>m</sup>0

## CYBELE, 2006

G15

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

Date	Astrometric					Vis. Mag.	Ephem- eris Transit	Date	Astrometric					Vis. Mag.	Ephem- eris Transit				
	R.A.		Dec.						R.A.		Dec.								
	h	m	s	°	'				"	h	m	s	°			'	"		
<b>2005 Nov.</b> 22	8	31	23.7	+15	58	30	13.0												
23	8	31	28.1	+15	57	54	13.0	<b>2006 Jan.</b> 20	8	06	05.6	+17	22	58	11.8	0	09.5		
24	8	31	31.4	+15	57	23	12.9	21	8	05	19.7	+17	25	50	11.8	0	04.8		
25	8	31	33.5	+15	56	55	12.9	22	8	04	33.9	+17	28	43	11.8	0	00.1		
<b>Nov.</b> 26	8	31	34.5	+15	56	32	12.9	4	15.1	23	8	03	48.1	+17	31	35	11.8	23	50.7
								4	11.1	24	8	03	02.4	+17	34	28	11.9	23	46.0
27	8	31	34.3	+15	56	14	12.9	4	07.2	25	8	02	16.8	+17	37	21	11.9	23	41.4
28	8	31	33.0	+15	56	00	12.9	4	03.2	26	8	01	31.4	+17	40	14	11.9	23	36.7
29	8	31	30.5	+15	55	51	12.9	3	59.3	27	8	00	46.2	+17	43	06	11.9	23	32.0
30	8	31	26.8	+15	55	46	12.9	3	55.3	28	8	00	01.3	+17	45	58	12.0	23	27.3
<b>Dec.</b> 1	8	31	22.0	+15	55	46	12.8	3	51.3	29	7	59	16.6	+17	48	50	12.0	23	22.7
2	8	31	16.0	+15	55	50	12.8	3	47.2	30	7	58	32.3	+17	51	41	12.0	23	18.0
3	8	31	08.8	+15	55	59	12.8	3	43.2	31	7	57	48.4	+17	54	31	12.0	23	13.4
4	8	31	00.5	+15	56	13	12.8	3	39.1	<b>Feb.</b> 1	7	57	04.9	+17	57	20	12.1	23	08.7
5	8	30	51.0	+15	56	32	12.8	3	35.0	2	7	56	21.9	+18	00	09	12.1	23	04.1
6	8	30	40.4	+15	56	55	12.8	3	30.9	3	7	55	39.4	+18	02	56	12.1	22	59.5
7	8	30	28.6	+15	57	23	12.7	3	26.8	4	7	54	57.4	+18	05	42	12.1	22	54.8
8	8	30	15.6	+15	57	55	12.7	3	22.6	5	7	54	16.0	+18	08	26	12.1	22	50.2
9	8	30	01.5	+15	58	33	12.7	3	18.5	6	7	53	35.3	+18	11	09	12.2	22	45.6
10	8	29	46.2	+15	59	15	12.7	3	14.3	7	7	52	55.2	+18	13	50	12.2	22	41.0
11	8	29	29.8	+16	00	01	12.7	3	10.1	8	7	52	15.8	+18	16	30	12.2	22	36.5
12	8	29	12.3	+16	00	53	12.7	3	05.8	9	7	51	37.1	+18	19	08	12.2	22	31.9
13	8	28	53.6	+16	01	48	12.6	3	01.6	10	7	50	59.2	+18	21	44	12.2	22	27.4
14	8	28	33.9	+16	02	49	12.6	2	57.3	11	7	50	22.1	+18	24	18	12.3	22	22.8
15	8	28	13.0	+16	03	54	12.6	2	53.1	12	7	49	45.8	+18	26	50	12.3	22	18.3
16	8	27	51.0	+16	05	03	12.6	2	48.8	13	7	49	10.3	+18	29	20	12.3	22	13.8
17	8	27	28.0	+16	06	17	12.6	2	44.4	14	7	48	35.7	+18	31	48	12.3	22	09.3
18	8	27	03.8	+16	07	35	12.5	2	40.1	15	7	48	02.0	+18	34	14	12.3	22	04.8
19	8	26	38.6	+16	08	58	12.5	2	35.8	16	7	47	29.2	+18	36	38	12.4	22	00.4
20	8	26	12.4	+16	10	25	12.5	2	31.4	17	7	46	57.4	+18	38	59	12.4	21	55.9
21	8	25	45.1	+16	11	57	12.5	2	27.0	18	7	46	26.5	+18	41	18	12.4	21	51.5
22	8	25	16.7	+16	13	32	12.5	2	22.6	19	7	45	56.6	+18	43	34	12.4	21	47.1
23	8	24	47.4	+16	15	12	12.4	2	18.2	20	7	45	27.8	+18	45	48	12.4	21	42.7
24	8	24	17.1	+16	16	56	12.4	2	13.7	21	7	45	00.0	+18	47	59	12.5	21	38.3
25	8	23	45.8	+16	18	44	12.4	2	09.3	22	7	44	33.2	+18	50	08	12.5	21	34.0
26	8	23	13.6	+16	20	35	12.4	2	04.8	23	7	44	07.5	+18	52	14	12.5	21	29.6
27	8	22	40.4	+16	22	31	12.4	2	00.3	24	7	43	42.9	+18	54	18	12.5	21	25.3
28	8	22	06.3	+16	24	31	12.3	1	55.8	25	7	43	19.4	+18	56	18	12.5	21	21.0
29	8	21	31.4	+16	26	34	12.3	1	51.3	26	7	42	57.0	+18	58	16	12.5	21	16.7
30	8	20	55.5	+16	28	40	12.3	1	46.8	27	7	42	35.8	+19	00	12	12.6	21	12.4
31	8	20	18.9	+16	30	51	12.3	1	42.3	28	7	42	15.7	+19	02	04	12.6	21	08.2
<b>2006 Jan.</b> 1	8	19	41.5	+16	33	04	12.3	1	37.7	<b>Mar.</b> 1	7	41	56.8	+19	03	54	12.6	21	04.0
2	8	19	03.3	+16	35	21	12.2	1	33.2	2	7	41	39.1	+19	05	41	12.6	20	59.8
3	8	18	24.4	+16	37	41	12.2	1	28.6	3	7	41	22.6	+19	07	24	12.6	20	55.6
4	8	17	44.7	+16	40	04	12.2	1	24.0	4	7	41	07.2	+19	09	05	12.6	20	51.4
5	8	17	04.4	+16	42	29	12.2	1	19.4	5	7	40	53.1	+19	10	43	12.7	20	47.2
6	8	16	23.5	+16	44	57	12.1	1	14.8	6	7	40	40.2	+19	12	18	12.7	20	43.1
7	8	15	42.0	+16	47	28	12.1	1	10.2	7	7	40	28.5	+19	13	50	12.7	20	39.0
8	8	15	00.0	+16	50	02	12.1	1	05.5	8	7	40	18.0	+19	15	19	12.7	20	34.9
9	8	14	17.4	+16	52	37	12.1	1	00.9	9	7	40	08.7	+19	16	45	12.7	20	30.9
10	8	13	34.3	+16	55	15	12.0	0	56.2	10	7	40	00.7	+19	18	08	12.7	20	26.8
11	8	12	50.8	+16	57	55	12.0	0	51.6	11	7	39	53.8	+19	19	28	12.8	20	22.8
12	8	12	06.9	+17	00	36	12.0	0	46.9	12	7	39	48.2	+19	20	45	12.8	20	18.8
13	8	11	22.6	+17	03	19	12.0	0	42.3	13	7	39	43.8	+19	21	59	12.8	20	14.8
14	8	10	38.0	+17	06	04	11.9	0	37.6	14	7	39	40.6	+19	23	09	12.8	20	10.8
15	8	09	53.1	+17	08	51	11.9	0	32.9	15	7	39	38.6	+19	24	17	12.8	20	06.9
16	8	09	07.9	+17	11	38	11.9	0	28.2	<b>Mar. 16</b>	7	39	37.8	+19	25	22	12.8	20	02.9
17	8	08	22.5	+17	14	27	11.8	0	23.6	17	7	39	38.2	+19	26	23	12.8	19	59.0
18	8	07	37.0	+17	17	17	11.8	0	18.9	18	7	39	39.8	+19	27	22	12.9	19	55.1
19	8	06	51.3	+17	20	07	11.8	0	14.2	19	7	39	42.6	+19	28	17	12.9	19	51.3
<b>Jan.</b> 20	8	06	05.6	+17	22	58	11.8	0	09.5	<b>Mar. 20</b>	7	39	46.6	+19	29	09	12.9	19	47.4

Second transit for Cybele 2006 January 22<sup>d</sup> 23<sup>h</sup> 55<sup>m</sup>4

DAVIDA, 2006  
GEOCENTRIC POSITIONS FOR 0<sup>h</sup> TERRESTRIAL TIME

Date	Astrometric					Vis. Mag.	Ephem- eris Transit	Date	Astrometric					Vis. Mag.	Ephem- eris Transit
	R.A.			Dec.					R.A.			Dec.			
	h	m	s	°	'				"	h	m	s	°		
<b>2006 June</b>	<b>2</b>	21 14 31.7	-20 24 40	12.2	4 32.9		<b>2006 July</b>	<b>31</b>	20 51 03.9	-25 52 27	11.2	0 17.5			
	<b>3</b>	21 14 38.8	-20 27 58	12.2	4 29.1		<b>Aug.</b>	<b>1</b>	20 50 16.7	-25 58 34	11.2	0 12.8			
	<b>4</b>	21 14 44.8	-20 31 23	12.2	4 25.2		<b>2</b>	20 49 29.5	-26 04 38	11.2	0 08.1				
	<b>5</b>	21 14 49.7	-20 34 53	12.2	4 21.4		<b>3</b>	20 48 42.1	-26 10 37	11.2	0 03.4				
	<b>6</b>	21 14 53.5	-20 38 30	12.2	4 17.5		<b>4</b>	20 47 54.6	-26 16 32	11.3	23 53.9				
	<b>7</b>	21 14 56.1	-20 42 14	12.2	4 13.6		<b>5</b>	20 47 07.2	-26 22 22	11.3	23 49.2				
<b>June</b>	<b>8</b>	21 14 57.7	-20 46 03	12.1	4 09.7		<b>6</b>	20 46 19.8	-26 28 08	11.3	23 44.5				
	<b>9</b>	21 14 58.1	-20 49 59	12.1	4 05.8		<b>7</b>	20 45 32.4	-26 33 48	11.3	23 39.8				
	<b>10</b>	21 14 57.4	-20 54 01	12.1	4 01.8		<b>8</b>	20 44 45.1	-26 39 24	11.3	23 35.1				
	<b>11</b>	21 14 55.5	-20 58 09	12.1	3 57.9		<b>9</b>	20 43 58.1	-26 44 54	11.3	23 30.4				
	<b>12</b>	21 14 52.5	-21 02 23	12.1	3 53.9		<b>10</b>	20 43 11.2	-26 50 18	11.3	23 25.7				
	<b>13</b>	21 14 48.3	-21 06 44	12.1	3 49.9		<b>11</b>	20 42 24.5	-26 55 37	11.4	23 21.0				
	<b>14</b>	21 14 43.0	-21 11 10	12.0	3 45.9		<b>12</b>	20 41 38.1	-27 00 50	11.4	23 16.3				
	<b>15</b>	21 14 36.6	-21 15 43	12.0	3 41.8		<b>13</b>	20 40 52.1	-27 05 57	11.4	23 11.6				
	<b>16</b>	21 14 28.9	-21 20 21	12.0	3 37.8		<b>14</b>	20 40 06.4	-27 10 58	11.4	23 06.9				
	<b>17</b>	21 14 20.2	-21 25 06	12.0	3 33.7		<b>15</b>	20 39 21.1	-27 15 53	11.4	23 02.2				
	<b>18</b>	21 14 10.2	-21 29 56	12.0	3 29.6		<b>16</b>	20 38 36.3	-27 20 41	11.4	22 57.6				
	<b>19</b>	21 13 59.1	-21 34 52	12.0	3 25.5		<b>17</b>	20 37 51.9	-27 25 23	11.4	22 52.9				
	<b>20</b>	21 13 46.8	-21 39 54	11.9	3 21.3		<b>18</b>	20 37 08.1	-27 29 58	11.5	22 48.3				
	<b>21</b>	21 13 33.4	-21 45 02	11.9	3 17.2		<b>19</b>	20 36 24.9	-27 34 26	11.5	22 43.6				
	<b>22</b>	21 13 18.8	-21 50 15	11.9	3 13.0		<b>20</b>	20 35 42.3	-27 38 48	11.5	22 39.0				
	<b>23</b>	21 13 03.0	-21 55 33	11.9	3 08.8		<b>21</b>	20 35 00.4	-27 43 02	11.5	22 34.4				
	<b>24</b>	21 12 46.1	-22 00 57	11.9	3 04.6		<b>22</b>	20 34 19.1	-27 47 10	11.5	22 29.8				
	<b>25</b>	21 12 28.0	-22 06 25	11.9	3 00.3		<b>23</b>	20 33 38.6	-27 51 10	11.5	22 25.2				
	<b>26</b>	21 12 08.7	-22 11 59	11.8	2 56.1		<b>24</b>	20 32 58.9	-27 55 03	11.6	22 20.6				
	<b>27</b>	21 11 48.4	-22 17 38	11.8	2 51.8		<b>25</b>	20 32 20.0	-27 58 49	11.6	22 16.0				
	<b>28</b>	21 11 26.9	-22 23 21	11.8	2 47.5		<b>26</b>	20 31 41.9	-28 02 27	11.6	22 11.5				
	<b>29</b>	21 11 04.3	-22 29 09	11.8	2 43.2		<b>27</b>	20 31 04.7	-28 05 59	11.6	22 07.0				
	<b>30</b>	21 10 40.6	-22 35 01	11.8	2 38.9		<b>28</b>	20 30 28.5	-28 09 23	11.6	22 02.4				
<b>July</b>	<b>1</b>	21 10 15.7	-22 40 57	11.8	2 34.6		<b>29</b>	20 29 53.2	-28 12 39	11.6	21 57.9				
	<b>2</b>	21 09 49.9	-22 46 58	11.7	2 30.2		<b>30</b>	20 29 18.8	-28 15 48	11.7	21 53.4				
	<b>3</b>	21 09 22.9	-22 53 01	11.7	2 25.8		<b>31</b>	20 28 45.5	-28 18 50	11.7	21 49.0				
	<b>4</b>	21 08 54.9	-22 59 09	11.7	2 21.4		<b>Sept. 1</b>	20 28 13.2	-28 21 45	11.7	21 44.5				
	<b>5</b>	21 08 25.9	-23 05 20	11.7	2 17.0		<b>2</b>	20 27 42.0	-28 24 32	11.7	21 40.1				
	<b>6</b>	21 07 55.8	-23 11 34	11.7	2 12.6		<b>3</b>	20 27 11.9	-28 27 12	11.7	21 35.7				
	<b>7</b>	21 07 24.8	-23 17 51	11.6	2 08.1		<b>4</b>	20 26 42.8	-28 29 45	11.7	21 31.3				
	<b>8</b>	21 06 52.7	-23 24 10	11.6	2 03.7		<b>5</b>	20 26 14.9	-28 32 10	11.7	21 26.9				
	<b>9</b>	21 06 19.7	-23 30 32	11.6	1 59.2		<b>6</b>	20 25 48.2	-28 34 28	11.8	21 22.6				
	<b>10</b>	21 05 45.8	-23 36 56	11.6	1 54.7		<b>7</b>	20 25 22.6	-28 36 39	11.8	21 18.2				
	<b>11</b>	21 05 11.0	-23 43 23	11.6	1 50.2		<b>8</b>	20 24 58.1	-28 38 44	11.8	21 13.9				
	<b>12</b>	21 04 35.2	-23 49 51	11.5	1 45.7		<b>9</b>	20 24 34.9	-28 40 41	11.8	21 09.6				
	<b>13</b>	21 03 58.6	-23 56 20	11.5	1 41.1		<b>10</b>	20 24 12.9	-28 42 31	11.8	21 05.3				
	<b>14</b>	21 03 21.1	-24 02 51	11.5	1 36.6		<b>11</b>	20 23 52.0	-28 44 14	11.8	21 01.1				
	<b>15</b>	21 02 42.8	-24 09 22	11.5	1 32.0		<b>12</b>	20 23 32.5	-28 45 50	11.8	20 56.8				
	<b>16</b>	21 02 03.7	-24 15 55	11.5	1 27.4		<b>13</b>	20 23 14.1	-28 47 20	11.9	20 52.6				
	<b>17</b>	21 01 23.9	-24 22 28	11.5	1 22.8		<b>14</b>	20 22 57.1	-28 48 43	11.9	20 48.4				
	<b>18</b>	21 00 43.3	-24 29 01	11.4	1 18.2		<b>15</b>	20 22 41.3	-28 49 59	11.9	20 44.2				
	<b>19</b>	21 00 01.9	-24 35 34	11.4	1 13.6		<b>16</b>	20 22 26.8	-28 51 09	11.9	20 40.1				
	<b>20</b>	20 59 19.9	-24 42 07	11.4	1 09.0		<b>17</b>	20 22 13.5	-28 52 12	11.9	20 35.9				
	<b>21</b>	20 58 37.3	-24 48 39	11.4	1 04.3		<b>18</b>	20 22 01.6	-28 53 09	11.9	20 31.8				
	<b>22</b>	20 57 54.0	-24 55 11	11.4	0 59.7		<b>19</b>	20 21 51.0	-28 53 59	11.9	20 27.7				
	<b>23</b>	20 57 10.2	-25 01 41	11.3	0 55.0		<b>20</b>	20 21 41.7	-28 54 43	12.0	20 23.7				
	<b>24</b>	20 56 25.9	-25 08 10	11.3	0 50.4		<b>21</b>	20 21 33.7	-28 55 21	12.0	20 19.6				
	<b>25</b>	20 55 41.0	-25 14 37	11.3	0 45.7		<b>22</b>	20 21 27.1	-28 55 52	12.0	20 15.6				
	<b>26</b>	20 54 55.7	-25 21 02	11.3	0 41.0		<b>23</b>	20 21 21.7	-28 56 18	12.0	20 11.6				
	<b>27</b>	20 54 10.0	-25 27 25	11.3	0 36.3		<b>24</b>	20 21 17.7	-28 56 37	12.0	20 07.6				
	<b>28</b>	20 53 23.9	-25 33 45	11.3	0 31.6		<b>25</b>	20 21 15.1	-28 56 51	12.0	20 03.7				
	<b>29</b>	20 52 37.5	-25 40 02	11.2	0 26.9		<b>Sept. 26</b>	20 21 13.7	-28 56 58	12.0	19 59.7				
	<b>30</b>	20 51 50.8	-25 46 16	11.2	0 22.2		<b>27</b>	20 21 13.7	-28 57 00	12.0	19 55.8				
<b>July</b>	<b>31</b>	20 51 03.9	-25 52 27	11.2	0 17.5		<b>Sept. 28</b>	20 21 15.0	-28 56 56	12.1	19 51.9				

Second transit for Davida 2006 August 3<sup>d</sup> 23<sup>h</sup> 58<sup>m</sup>7

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

Date	Astrometric					Vis. Mag.	Ephem- eris Transit	Date	Astrometric					Vis. Mag.	Ephem- eris Transit						
	R.A.			Dec.					R.A.			Dec.									
	h	m	s	°	'				"	h	m	s	°			'	"	h	m		
<b>2006 June 27</b>	22	16	37.3	+	4	13	52	11.0	3	56.5	<b>2006 Aug. 25</b>	21	44	45.0	+	9	22	44	10.0	23	27.9
<b>28</b>	22	16	39.7	+	4	23	19	11.0	3	52.6	<b>26</b>	21	43	52.6	+	9	22	11	10.0	23	23.1
<b>June 29</b>	22	16	40.8	+	4	32	40	11.0	3	48.6	<b>27</b>	21	43	00.5	+	9	21	27	10.0	23	18.3
<b>30</b>	22	16	40.6	+	4	41	57	11.0	3	44.7	<b>28</b>	21	42	08.8	+	9	20	31	10.0	23	13.5
<b>July 1</b>	22	16	39.0	+	4	51	07	11.0	3	40.7	<b>29</b>	21	41	17.6	+	9	19	25	10.0	23	08.8
<b>2</b>	22	16	36.0	+	5	00	13	10.9	3	36.8	<b>30</b>	21	40	26.8	+	9	18	07	10.0	23	04.0
<b>3</b>	22	16	31.7	+	5	09	12	10.9	3	32.8	<b>31</b>	21	39	36.6	+	9	16	39	10.0	22	59.3
<b>4</b>	22	16	26.0	+	5	18	06	10.9	3	28.7	<b>Sept. 1</b>	21	38	47.0	+	9	15	00	10.0	22	54.5
<b>5</b>	22	16	19.0	+	5	26	54	10.9	3	24.7	<b>2</b>	21	37	58.0	+	9	13	12	10.0	22	49.8
<b>6</b>	22	16	10.5	+	5	35	35	10.9	3	20.6	<b>3</b>	21	37	09.8	+	9	11	14	10.0	22	45.1
<b>7</b>	22	16	00.7	+	5	44	10	10.8	3	16.5	<b>4</b>	21	36	22.3	+	9	09	07	10.0	22	40.4
<b>8</b>	22	15	49.6	+	5	52	38	10.8	3	12.4	<b>5</b>	21	35	35.7	+	9	06	50	10.1	22	35.7
<b>9</b>	22	15	37.0	+	6	01	00	10.8	3	08.2	<b>6</b>	21	34	49.9	+	9	04	25	10.1	22	31.0
<b>10</b>	22	15	23.1	+	6	09	14	10.8	3	04.1	<b>7</b>	21	34	05.1	+	9	01	52	10.1	22	26.3
<b>11</b>	22	15	07.8	+	6	17	21	10.7	2	59.9	<b>8</b>	21	33	21.2	+	8	59	11	10.1	22	21.7
<b>12</b>	22	14	51.1	+	6	25	20	10.7	2	55.7	<b>9</b>	21	32	38.2	+	8	56	22	10.1	22	17.1
<b>13</b>	22	14	33.1	+	6	33	12	10.7	2	51.4	<b>10</b>	21	31	56.4	+	8	53	26	10.1	22	12.4
<b>14</b>	22	14	13.7	+	6	40	56	10.7	2	47.2	<b>11</b>	21	31	15.6	+	8	50	22	10.1	22	07.9
<b>15</b>	22	13	52.9	+	6	48	31	10.7	2	42.9	<b>12</b>	21	30	36.0	+	8	47	13	10.2	22	03.3
<b>16</b>	22	13	30.8	+	6	55	59	10.6	2	38.6	<b>13</b>	21	29	57.5	+	8	43	56	10.2	21	58.7
<b>17</b>	22	13	07.3	+	7	03	17	10.6	2	34.3	<b>14</b>	21	29	20.2	+	8	40	34	10.2	21	54.2
<b>18</b>	22	12	42.5	+	7	10	27	10.6	2	29.9	<b>15</b>	21	28	44.1	+	8	37	06	10.2	21	49.7
<b>19</b>	22	12	16.3	+	7	17	27	10.6	2	25.6	<b>16</b>	21	28	09.4	+	8	33	34	10.2	21	45.2
<b>20</b>	22	11	48.8	+	7	24	18	10.6	2	21.2	<b>17</b>	21	27	35.9	+	8	29	56	10.2	21	40.7
<b>21</b>	22	11	19.9	+	7	30	59	10.5	2	16.8	<b>18</b>	21	27	03.8	+	8	26	14	10.3	21	36.3
<b>22</b>	22	10	49.8	+	7	37	31	10.5	2	12.3	<b>19</b>	21	26	33.1	+	8	22	28	10.3	21	31.9
<b>23</b>	22	10	18.4	+	7	43	52	10.5	2	07.9	<b>20</b>	21	26	03.8	+	8	18	38	10.3	21	27.5
<b>24</b>	22	09	45.7	+	7	50	03	10.5	2	03.4	<b>21</b>	21	25	35.9	+	8	14	45	10.3	21	23.1
<b>25</b>	22	09	11.8	+	7	56	03	10.4	1	58.9	<b>22</b>	21	25	09.4	+	8	10	50	10.3	21	18.8
<b>26</b>	22	08	36.7	+	8	01	53	10.4	1	54.4	<b>23</b>	21	24	44.5	+	8	06	51	10.3	21	14.4
<b>27</b>	22	08	00.4	+	8	07	32	10.4	1	49.9	<b>24</b>	21	24	21.0	+	8	02	51	10.4	21	10.1
<b>28</b>	22	07	23.0	+	8	12	59	10.4	1	45.3	<b>25</b>	21	23	59.1	+	7	58	50	10.4	21	05.9
<b>29</b>	22	06	44.4	+	8	18	15	10.4	1	40.7	<b>26</b>	21	23	38.8	+	7	54	47	10.4	21	01.6
<b>30</b>	22	06	04.7	+	8	23	20	10.3	1	36.1	<b>27</b>	21	23	19.9	+	7	50	43	10.4	20	57.4
<b>31</b>	22	05	24.0	+	8	28	13	10.3	1	31.5	<b>28</b>	21	23	02.7	+	7	46	38	10.4	20	53.2
<b>Aug. 1</b>	22	04	42.2	+	8	32	55	10.3	1	26.9	<b>29</b>	21	22	47.0	+	7	42	34	10.5	20	49.0
<b>2</b>	22	03	59.4	+	8	37	24	10.3	1	22.3	<b>30</b>	21	22	33.0	+	7	38	29	10.5	20	44.9
<b>3</b>	22	03	15.7	+	8	41	41	10.3	1	17.6	<b>Oct. 1</b>	21	22	20.5	+	7	34	26	10.5	20	40.8
<b>4</b>	22	02	31.1	+	8	45	46	10.2	1	12.9	<b>2</b>	21	22	09.6	+	7	30	23	10.5	20	36.7
<b>5</b>	22	01	45.6	+	8	49	39	10.2	1	08.3	<b>3</b>	21	22	00.3	+	7	26	21	10.5	20	32.6
<b>6</b>	22	00	59.3	+	8	53	20	10.2	1	03.6	<b>4</b>	21	21	52.7	+	7	22	21	10.6	20	28.6
<b>7</b>	22	00	12.2	+	8	56	48	10.2	0	58.8	<b>5</b>	21	21	46.6	+	7	18	22	10.6	20	24.6
<b>8</b>	21	59	24.3	+	9	00	03	10.2	0	54.1	<b>6</b>	21	21	42.1	+	7	14	26	10.6	20	20.6
<b>9</b>	21	58	35.7	+	9	03	06	10.1	0	49.4	<b>7</b>	21	21	39.3	+	7	10	32	10.6	20	16.6
<b>10</b>	21	57	46.5	+	9	05	56	10.1	0	44.6	<b>Oct. 8</b>	21	21	38.0	+	7	06	40	10.6	20	12.7
<b>11</b>	21	56	56.7	+	9	08	33	10.1	0	39.9	<b>9</b>	21	21	38.4	+	7	02	51	10.6	20	08.8
<b>12</b>	21	56	06.3	+	9	10	57	10.1	0	35.1	<b>10</b>	21	21	40.3	+	6	59	05	10.7	20	04.9
<b>13</b>	21	55	15.5	+	9	13	09	10.1	0	30.3	<b>11</b>	21	21	43.8	+	6	55	23	10.7	20	01.1
<b>14</b>	21	54	24.1	+	9	15	07	10.1	0	25.6	<b>12</b>	21	21	48.9	+	6	51	43	10.7	19	57.2
<b>15</b>	21	53	32.3	+	9	16	53	10.0	0	20.8	<b>13</b>	21	21	55.5	+	6	48	08	10.7	19	53.4
<b>16</b>	21	52	40.2	+	9	18	25	10.0	0	16.0	<b>14</b>	21	22	03.7	+	6	44	36	10.7	19	49.7
<b>17</b>	21	51	47.8	+	9	19	45	10.0	0	11.2	<b>15</b>	21	22	13.5	+	6	41	09	10.7	19	45.9
<b>18</b>	21	50	55.2	+	9	20	52	10.0	0	06.4	<b>16</b>	21	22	24.9	+	6	37	46	10.8	19	42.2
<b>19</b>	21	50	02.3	+	9	21	45	10.0	0	01.6	<b>17</b>	21	22	37.8	+	6	34	27	10.8	19	38.5
<b>20</b>	21	49	09.4	+	9	22	26	10.0	23	51.9	<b>18</b>	21	22	52.2	+	6	31	14	10.8	19	34.8
<b>21</b>	21	48	16.4	+	9	22	55	10.0	23	47.1	<b>19</b>	21	23	08.2	+	6	28	05	10.8	19	31.2
<b>22</b>	21	47	23.4	+	9	23	10	10.0	23	42.3	<b>20</b>	21	23	25.7	+	6	25	01	10.8	19	27.6
<b>23</b>	21	46	30.4	+	9	23	14	10.0	23	37.5	<b>21</b>	21	23	44.7	+	6	22	03	10.8	19	24.0
<b>24</b>	21	45	37.6	+	9	23	05	10.0	23	32.7	<b>22</b>	21	24	05.2	+	6	19	11	10.9	19	20.4
<b>Aug. 25</b>	21	44	45.0	+	9	22	44	10.0	23	27.9	<b>Oct. 23</b>	21	24	27.1	+	6	16	24	10.9	19	16.9

Second transit for Interamnia 2006 August 19<sup>d</sup> 23<sup>h</sup> 56<sup>m</sup>7