



2012 02 07 000000 04 31 13.3 +20 56 55 111.9 20.9 0.23 028.7 103
+16 -55 0.99 056 +49
2012 02 08 000000 04 31 25.5 +21 01 54 110.9 20.9 0.24 031.8 104
+16 -55 1.00 070 +50
2012 02 09 000000 04 31 39.2 +21 06 52 110.0 20.9 0.25 034.7 105
+15 -55 0.98 084 +47
2012 02 10 000000 04 31 54.5 +21 11 51 109.1 21.0 0.26 037.4 106
+15 -54 0.94 098 +42
2012 02 11 000000 04 32 11.2 +21 16 49 108.1 21.0 0.27 039.9 106
+14 -54 0.88 113 +34
2012 02 12 000000 04 32 29.4 +21 21 47 107.2 21.0 0.27 042.2 107
+14 -54 0.80 127 +25
2012 02 13 000000 04 32 49.1 +21 26 46 106.3 21.0 0.28 044.3 108
+13 -53 0.69 141 +16
2012 02 14 000000 04 33 10.2 +21 31 44 105.4 21.0 0.29 046.3 108
+13 -53 0.58 155 +06
2012 02 15 000000 04 33 32.7 +21 36 41 104.4 21.0 0.30 048.1 109
+12 -53 0.47 169 -04
2012 02 16 000000 04 33 56.7 +21 41 39 103.5 21.1 0.31 049.8 110
+12 -52 0.36 177 -14

2011 YA16

Ephemeris is based on Generalized Väisälä elements based on observations  
2011  
Dec. 20-27.

K11Y16A		[H=]								Sky Motion	
Date	UT	R.A.	(J2000)	Decl.	El.	V					
Object	Sun	Moon									
	h	m	s					"/min	P.A.	Azi.	
Alt.	Alt.	Phase	Dist.	Alt.							
2012 01 18 000000 04 36 17.9 +15 48 33 132.4 20.1 0.23 246.1 084											
+27 -60 0.32 157 -13											
2012 01 19 000000 04 35 58.2 +15 46 26 131.3 20.1 0.21 245.5 085											
+26 -59 0.22 170 -24											
2012 01 20 000000 04 35 39.8 +15 44 24 130.2 20.2 0.20 244.9 086											
+25 -59 0.13 171 -34											
2012 01 21 000000 04 35 22.5 +15 42 27 129.1 20.2 0.19 244.2 087											
+24 -59 0.06 158 -43											
2012 01 22 000000 04 35 06.6 +15 40 34 128.0 20.2 0.18 243.3 088											
+24 -59 0.02 145 -50											
2012 01 23 000000 04 34 51.8 +15 38 47 126.9 20.2 0.16 242.3 088											
+23 -59 0.00 131 -54											
2012 01 24 000000 04 34 38.4 +15 37 03 125.9 20.2 0.15 241.1 089											
+22 -58 0.01 118 -54											
2012 01 25 000000 04 34 26.2 +15 35 25 124.8 20.2 0.14 239.7 090											
+22 -58 0.03 105 -51											
2012 01 26 000000 04 34 15.2 +15 33 51 123.8 20.3 0.12 238.0 091											
+21 -58 0.08 092 -45											
2012 01 27 000000 04 34 05.5 +15 32 21 122.7 20.3 0.11 236.0 091											
+20 -58 0.14 080 -37											
2012 01 28 000000 04 33 57.0 +15 30 56 121.7 20.3 0.10 233.4 092											
+19 -58 0.22 067 -29											
2012 01 29 000000 04 33 49.8 +15 29 35 120.6 20.3 0.088 230.1 093											
+19 -57 0.30 055 -21											
2012 01 30 000000 04 33 43.9 +15 28 19 119.6 20.3 0.077 225.7 093											
+18 -57 0.39 044 -12											
2012 01 31 000000 04 33 39.2 +15 27 07 118.6 20.3 0.066 220.0 094											
+17 -57 0.48 032 -03											
2012 02 01 000000 04 33 35.7 +15 26 00 117.5 20.3 0.056 212.1 095											

+17	-57	0.58	021	+06								
2012	02	02	000000	04 33	33.4	+15 24 56	116.5	20.4	0.048	201.4	096	
+16	-56	0.67	010	+14								
2012	02	03	000000	04 33	32.4	+15 23 57	115.5	20.4	0.042	187.0	096	
+15	-56	0.76	008	+23								
2012	02	04	000000	04 33	32.6	+15 23 02	114.5	20.4	0.040	169.6	097	
+15	-56	0.84	018	+31								
2012	02	05	000000	04 33	34.0	+15 22 11	113.5	20.4	0.041	151.9	098	
+14	-56	0.91	030	+39								
2012	02	06	000000	04 33	36.6	+15 21 24	112.5	20.4	0.046	136.8	098	
+13	-55	0.96	043	+45								
2012	02	07	000000	04 33	40.3	+15 20 40	111.5	20.4	0.053	125.3	099	
+13	-55	0.99	056	+49								
2012	02	08	000000	04 33	45.3	+15 20 01	110.5	20.4	0.062	117.0	100	
+12	-55	1.00	070	+50								
2012	02	09	000000	04 33	51.4	+15 19 25	109.5	20.5	0.072	110.8	100	
+11	-55	0.98	084	+47								
2012	02	10	000000	04 33	58.7	+15 18 53	108.6	20.5	0.082	106.3	101	
+11	-54	0.94	098	+42								
2012	02	11	000000	04 34	07.1	+15 18 25	107.6	20.5	0.093	102.8	102	
+10	-54	0.88	112	+34								
2012	02	12	000000	04 34	16.7	+15 18 00	106.6	20.5	0.10	100.1	102	
+09	-54	0.80	126	+25								
2012	02	13	000000	04 34	27.4	+15 17 39	105.6	20.5	0.11	097.9	103	
+09	-53	0.69	141	+16								
2012	02	14	000000	04 34	39.2	+15 17 21	104.7	20.5	0.13	096.1	104	
+08	-53	0.58	154	+06								
2012	02	15	000000	04 34	52.2	+15 17 06	103.7	20.5	0.14	094.7	104	
+08	-53	0.47	167	-04								
2012	02	16	000000	04 35	06.2	+15 16 55	102.8	20.5	0.15	093.4	105	
+07	-52	0.36	173	-14								

2011 YB16

Ephemeris is based on Generalized Väisälä elements based on observations  
2011  
Dec. 20-27.

K11Y16B		[H=]										
Date	UT	R.A. (J2000)		Decl.	El.	V	Sky Motion					
Object	Sun	Moon					"/min	P.A.	Azi.			
Alt.	Alt.	Phase	Dist.	Alt.								
2012	01	18	000000	04 37	38.3	+18 27 04	133.3	20.6	0.17	315.8	086	
+29	-60	0.32	157	-13								
2012	01	19	000000	04 37	28.0	+18 30 06	132.2	20.6	0.16	321.2	087	
+28	-59	0.22	171	-24								
2012	01	20	000000	04 37	19.5	+18 33 09	131.2	20.7	0.15	327.4	088	
+27	-59	0.13	173	-34								
2012	01	21	000000	04 37	13.0	+18 36 16	130.1	20.7	0.14	334.4	089	
+27	-59	0.06	160	-43								
2012	01	22	000000	04 37	08.3	+18 39 25	129.1	20.7	0.13	342.0	089	
+26	-59	0.02	146	-50								
2012	01	23	000000	04 37	05.6	+18 42 37	128.1	20.7	0.13	350.1	090	
+25	-59	0.00	132	-54								
2012	01	24	000000	04 37	04.6	+18 45 51	127.1	20.7	0.13	358.3	091	
+25	-58	0.01	119	-54								
2012	01	25	000000	04 37	05.6	+18 49 07	126.1	20.8	0.13	006.3	092	
+24	-58	0.03	106	-51								
2012	01	26	000000	04 37	08.4	+18 52 25	125.1	20.8	0.14	013.9	093	
+24	-58	0.08	093	-45								

2012	01	27	000000	04	37	13.1	+18	55	46	124.1	20.8	0.15	020.8	093
+23	-58	0.14	080	-37										
2012	01	28	000000	04	37	19.6	+18	59	09	123.1	20.8	0.15	027.0	094
+22	-58	0.22	068	-29										
2012	01	29	000000	04	37	27.9	+19	02	34	122.2	20.9	0.16	032.4	095
+22	-57	0.30	056	-21										
2012	01	30	000000	04	37	38.0	+19	06	00	121.2	20.9	0.18	037.1	095
+21	-57	0.39	044	-12										
2012	01	31	000000	04	37	49.8	+19	09	29	120.2	20.9	0.19	041.2	096
+21	-57	0.48	033	-03										
2012	02	01	000000	04	38	03.5	+19	12	59	119.3	20.9	0.20	044.7	097
+20	-57	0.58	021	+06										
2012	02	02	000000	04	38	18.9	+19	16	31	118.3	21.0	0.21	047.8	098
+19	-56	0.67	009	+14										
2012	02	03	000000	04	38	36.0	+19	20	04	117.4	21.0	0.23	050.5	098
+19	-56	0.76	004	+23										
2012	02	04	000000	04	38	54.8	+19	23	39	116.5	21.0	0.24	052.8	099
+18	-56	0.84	016	+31										
2012	02	05	000000	04	39	15.3	+19	27	15	115.6	21.0	0.25	054.9	100
+18	-56	0.91	028	+39										
2012	02	06	000000	04	39	37.4	+19	30	53	114.6	21.0	0.27	056.8	100
+17	-55	0.96	041	+45										
2012	02	07	000000	04	40	01.2	+19	34	32	113.7	21.1	0.28	058.4	101
+17	-55	0.99	055	+49										
2012	02	08	000000	04	40	26.6	+19	38	11	112.8	21.1	0.30	059.9	102
+16	-55	1.00	068	+50										
2012	02	09	000000	04	40	53.6	+19	41	52	111.9	21.1	0.31	061.3	102
+16	-55	0.98	082	+47										
2012	02	10	000000	04	41	22.2	+19	45	34	111.0	21.1	0.32	062.5	103
+15	-54	0.94	096	+42										
2012	02	11	000000	04	41	52.3	+19	49	16	110.1	21.1	0.34	063.6	104
+15	-54	0.88	110	+34										
2012	02	12	000000	04	42	24.0	+19	53	00	109.3	21.2	0.35	064.6	104
+14	-54	0.80	125	+25										
2012	02	13	000000	04	42	57.2	+19	56	44	108.4	21.2	0.37	065.5	105
+14	-53	0.69	139	+16										
2012	02	14	000000	04	43	31.9	+20	00	28	107.5	21.2	0.38	066.4	105
+13	-53	0.58	153	+06										
2012	02	15	000000	04	44	08.0	+20	04	13	106.7	21.2	0.39	067.2	106
+13	-53	0.47	167	-04										
2012	02	16	000000	04	44	45.6	+20	07	58	105.8	21.2	0.41	068.0	107
+12	-52	0.36	178	-14										

2011 YY15

Ephemeris is based on Generalized Väisälä elements based on observations  
2011  
Dec. 20-27.

K11Y15Y		[H=]												
Date	UT	R.A.	(J2000)	Decl.	El.	V	Sky Motion							
Object	Sun	Moon												
Alt.	Alt.	Phase	Dist.	Alt.										
2012	01	18	000000	04	38	24.5	+18	03	47	133.4	21.0	0.11	009.4	086
+29	-60	0.32	157	-13										
2012	01	19	000000	04	38	28.1	+18	06	27	132.4	21.1	0.11	019.9	087
+28	-59	0.22	170	-24										
2012	01	20	000000	04	38	33.8	+18	09	12	131.4	21.1	0.13	028.8	087
+27	-59	0.13	173	-34										
2012	01	21	000000	04	38	41.7	+18	12	00	130.4	21.1	0.14	036.0	088

