

TIJDVEREFFENING(E.T.) EN DECLINATIE(DEC.) OM 12h00m M.E.T.

JAN 2012			FEB 2012			MRT 2012		
DA-TUM	E.T. m s	DEC. ° ' ,	DA-TUM	E.T. m s	DEC. ° ' ,	DA-TUM	E.T. m s	DEC. ° ' ,
01:	-03 17	-23 01.6	01:	-13 29	-17 11.8	01:	-12 15	-07 20.3
02:	-03 46	-22 56.6	02:	-13 37	-16 54.7	02:	-12 03	-06 57.4
03:	-04 14	-22 51.2	03:	-13 44	-16 37.3	03:	-11 50	-06 34.4
04:	-04 41	-22 45.2	04:	-13 51	-16 19.6	04:	-11 37	-06 11.3
05:	-05 08	-22 38.9	05:	-13 56	-16 01.6	05:	-11 23	-05 48.1
06:	-05 35	-22 32.0	06:	-14 01	-15 43.4	06:	-11 09	-05 24.8
07:	-06 01	-22 24.8	07:	-14 05	-15 24.9	07:	-10 55	-05 01.5
08:	-06 27	-22 17.1	08:	-14 08	-15 06.1	08:	-10 40	-04 38.1
09:	-06 52	-22 08.9	09:	-14 10	-14 47.0	09:	-10 25	-04 14.6
10:	-07 17	-22 00.4	10:	-14 11	-14 27.8	10:	-10 09	-03 51.1
11:	-07 41	-21 51.3	11:	-14 12	-14 08.2	11:	-09 54	-03 27.5
12:	-08 04	-21 41.9	12:	-14 12	-13 48.5	12:	-09 37	-03 03.9
13:	-08 27	-21 32.1	13:	-14 11	-13 28.5	13:	-09 21	-02 40.3
14:	-08 50	-21 21.8	14:	-14 10	-13 08.3	14:	-09 04	-02 16.6
15:	-09 11	-21 11.1	15:	-14 07	-12 47.8	15:	-08 48	-01 52.9
16:	-09 32	-21 00.0	16:	-14 04	-12 27.2	16:	-08 31	-01 29.2
17:	-09 53	-20 48.5	17:	-14 01	-12 06.3	17:	-08 13	-01 05.5
18:	-10 13	-20 36.6	18:	-13 57	-11 45.3	18:	-07 56	-00 41.8
19:	-10 32	-20 24.3	19:	-13 52	-11 24.1	19:	-07 38	-00 18.0
20:	-10 50	-20 11.7	20:	-13 46	-11 02.7	20:	-07 21	+00 05.7
21:	-11 08	-19 58.6	21:	-13 39	-10 41.1	21:	-07 03	+00 29.4
22:	-11 25	-19 45.2	22:	-13 33	-10 19.4	22:	-06 45	+00 53.1
23:	-11 41	-19 31.4	23:	-13 25	-09 57.5	23:	-06 27	+01 16.7
24:	-11 56	-19 17.3	24:	-13 17	-09 35.4	24:	-06 09	+01 40.4
25:	-12 10	-19 02.8	25:	-13 08	-09 13.2	25:	-05 51	+02 04.0
26:	-12 24	-18 47.9	26:	-12 58	-08 50.9	26:	-05 33	+02 27.5
27:	-12 37	-18 32.7	27:	-12 48	-08 28.4	27:	-05 15	+02 51.0
28:	-12 49	-18 17.2	28:	-12 38	-08 05.8	28:	-04 57	+03 14.4
29:	-13 01	-18 01.3	29:	-12 27	-07 43.1	29:	-04 39	+03 37.8
30:	-13 11	-17 45.1				30:	-04 21	+04 01.1
31:	-13 21	-17 28.6				31:	-04 03	+04 24.3

APR 2012			MEI 2012			JUN 2012		
DA-TUM	E.T. m s	DEC. ° ' ,	DA-TUM	E.T. m s	DEC. ° ' ,	DA-TUM	E.T. m s	DEC. ° ' ,
01:	-03 45	+04 47.5	01:	+02 57	+15 16.3	01:	+02 07	+22 08.3
02:	-03 27	+05 10.5	02:	+03 04	+15 34.2	02:	+01 57	+22 16.0
03:	-03 10	+05 33.5	03:	+03 10	+15 51.8	03:	+01 47	+22 23.3
04:	-02 52	+05 56.3	04:	+03 16	+16 09.1	04:	+01 37	+22 30.3
05:	-02 35	+06 19.1	05:	+03 21	+16 26.2	05:	+01 27	+22 36.8
06:	-02 18	+06 41.7	06:	+03 25	+16 43.0	06:	+01 16	+22 42.9
07:	-02 01	+07 04.3	07:	+03 29	+16 59.5	07:	+01 05	+22 48.6
08:	-01 44	+07 26.7	08:	+03 33	+17 15.7	08:	+00 53	+22 54.0
09:	-01 28	+07 49.0	09:	+03 35	+17 31.7	09:	+00 41	+22 58.9
10:	-01 12	+08 11.1	10:	+03 38	+17 47.3	10:	+00 30	+23 03.4
11:	-00 56	+08 33.2	11:	+03 39	+18 02.7	11:	+00 17	+23 07.5
12:	-00 40	+08 55.0	12:	+03 40	+18 17.7	12:	+00 05	+23 11.2
13:	-00 25	+09 16.8	13:	+03 41	+18 32.5	13:	-00 08	+23 14.5
14:	-00 10	+09 38.4	14:	+03 41	+18 46.9	14:	-00 20	+23 17.4
15:	+00 04	+09 59.8	15:	+03 40	+19 01.0	15:	-00 33	+23 19.9
16:	+00 18	+10 21.0	16:	+03 39	+19 14.8	16:	-00 46	+23 22.0
17:	+00 32	+10 42.1	17:	+03 37	+19 28.3	17:	-00 59	+23 23.6
18:	+00 45	+11 03.0	18:	+03 34	+19 41.4	18:	-01 12	+23 24.9
19:	+00 58	+11 23.8	19:	+03 31	+19 54.2	19:	-01 26	+23 25.7
20:	+01 11	+11 44.3	20:	+03 28	+20 06.7	20:	-01 39	+23 26.1
21:	+01 23	+12 04.7	21:	+03 23	+20 18.8	21:	-01 52	+23 26.1
22:	+01 34	+12 24.8	22:	+03 19	+20 30.6	22:	-02 05	+23 25.7
23:	+01 45	+12 44.8	23:	+03 14	+20 42.0	23:	-02 18	+23 24.9
24:	+01 56	+13 04.5	24:	+03 08	+20 53.1	24:	-02 31	+23 23.7
25:	+02 06	+13 24.0	25:	+03 02	+21 03.8	25:	-02 44	+23 22.0
26:	+02 16	+13 43.3	26:	+02 55	+21 14.1	26:	-02 56	+23 20.0
27:	+02 25	+14 02.4	27:	+02 48	+21 24.1	27:	-03 09	+23 17.5
28:	+02 34	+14 21.3	28:	+02 41	+21 33.7	28:	-03 21	+23 14.6
29:	+02 42	+14 39.9	29:	+02 33	+21 42.9	29:	-03 33	+23 11.3
30:	+02 50	+14 58.2	30:	+02 25	+21 51.8	30:	-03 45	+23 07.6
			31:	+02 16	+22 00.2			

TIJDVEREFFENING(E.T.) EN DECLINATIE(DEC.) OM 12h00m M.E.T.

JUL 2012			AUG 2012			SEP 2012		
DA-TUM	E.T. m s	DEC. ° '	DA-TUM	E.T. m s	DEC. ° '	DA-TUM	E.T. m s	DEC. ° '
01:	-03 56	+23 03.5	01:	-06 18	+17 50.8	01:	+00 08	+08 02.5
02:	-04 07	+22 59.0	02:	-06 14	+17 35.4	02:	+00 27	+07 40.6
03:	-04 18	+22 54.1	03:	-06 09	+17 19.7	03:	+00 47	+07 18.5
04:	-04 29	+22 48.8	04:	-06 03	+17 03.7	04:	+01 07	+06 56.4
05:	-04 39	+22 43.1	05:	-05 57	+16 47.4	05:	+01 27	+06 34.2
06:	-04 49	+22 37.1	06:	-05 50	+16 30.9	06:	+01 47	+06 11.8
07:	-04 59	+22 30.6	07:	-05 43	+16 14.1	07:	+02 08	+05 49.3
08:	-05 08	+22 23.7	08:	-05 35	+15 57.0	08:	+02 29	+05 26.8
09:	-05 17	+22 16.5	09:	-05 26	+15 39.7	09:	+02 49	+05 04.1
10:	-05 25	+22 08.8	10:	-05 17	+15 22.1	10:	+03 10	+04 41.4
11:	-05 33	+22 00.8	11:	-05 08	+15 04.3	11:	+03 31	+04 18.6
12:	-05 41	+21 52.4	12:	-04 57	+14 46.2	12:	+03 53	+03 55.7
13:	-05 48	+21 43.6	13:	-04 47	+14 27.9	13:	+04 14	+03 32.7
14:	-05 54	+21 34.5	14:	-04 35	+14 09.4	14:	+04 35	+03 09.7
15:	-06 00	+21 25.0	15:	-04 24	+13 50.6	15:	+04 56	+02 46.6
16:	-06 06	+21 15.1	16:	-04 11	+13 31.6	16:	+05 18	+02 23.4
17:	-06 11	+21 04.8	17:	-03 59	+13 12.4	17:	+05 39	+02 00.2
18:	-06 16	+20 54.3	18:	-03 45	+12 53.0	18:	+06 00	+01 37.0
19:	-06 20	+20 43.3	19:	-03 31	+12 33.4	19:	+06 22	+01 13.7
20:	-06 23	+20 32.0	20:	-03 17	+12 13.6	20:	+06 43	+00 50.4
21:	-06 26	+20 20.4	21:	-03 02	+11 53.6	21:	+07 04	+00 27.1
22:	-06 29	+20 08.4	22:	-02 47	+11 33.4	22:	+07 25	+00 03.7
23:	-06 30	+19 56.1	23:	-02 32	+11 13.0	23:	+07 46	-00 19.6
24:	-06 31	+19 43.4	24:	-02 15	+10 52.5	24:	+08 07	-00 43.0
25:	-06 32	+19 30.4	25:	-01 59	+10 31.8	25:	+08 28	-01 06.4
26:	-06 32	+19 17.1	26:	-01 42	+10 10.9	26:	+08 49	-01 29.7
27:	-06 31	+19 03.5	27:	-01 24	+09 49.9	27:	+09 09	-01 53.1
28:	-06 30	+18 49.6	28:	-01 07	+09 28.7	28:	+09 29	-02 16.4
29:	-06 28	+18 35.3	29:	-00 48	+09 07.3	29:	+09 49	-02 39.7
30:	-06 25	+18 20.8	30:	-00 30	+08 45.8	30:	+10 09	-03 03.0
31:	-06 22	+18 06.0	31:	-00 11	+08 24.2			

OKT 2012			NOV 2012			DEC 2012		
DA-TUM	E.T. m s	DEC. ° '	DA-TUM	E.T. m s	DEC. ° '	DA-TUM	E.T. m s	DEC. ° '
01:	+10 28	-03 26.3	01:	+16 25	-14 37.9	01:	+10 50	-21 53.8
02:	+10 47	-03 49.5	02:	+16 26	-14 56.8	02:	+10 27	-22 02.6
03:	+11 06	-04 12.6	03:	+16 26	-15 15.5	03:	+10 03	-22 11.0
04:	+11 25	-04 35.8	04:	+16 25	-15 34.0	04:	+09 39	-22 19.0
05:	+11 43	-04 58.8	05:	+16 24	-15 52.2	05:	+09 14	-22 26.6
06:	+12 00	-05 21.8	06:	+16 21	-16 10.1	06:	+08 49	-22 33.7
07:	+12 18	-05 44.8	07:	+16 18	-16 27.8	07:	+08 23	-22 40.4
08:	+12 35	-06 07.7	08:	+16 14	-16 45.2	08:	+07 57	-22 46.7
09:	+12 51	-06 30.4	09:	+16 09	-17 02.3	09:	+07 30	-22 52.5
10:	+13 07	-06 53.1	10:	+16 03	-17 19.1	10:	+07 02	-22 57.8
11:	+13 22	-07 15.8	11:	+15 56	-17 35.6	11:	+06 35	-23 02.7
12:	+13 37	-07 38.3	12:	+15 48	-17 51.8	12:	+06 07	-23 07.1
13:	+13 51	-08 00.7	13:	+15 40	-18 07.7	13:	+05 38	-23 11.1
14:	+14 05	-08 23.0	14:	+15 30	-18 23.3	14:	+05 10	-23 14.6
15:	+14 19	-08 45.2	15:	+15 20	-18 38.6	15:	+04 41	-23 17.7
16:	+14 31	-09 07.2	16:	+15 09	-18 53.5	16:	+04 11	-23 20.3
17:	+14 43	-09 29.2	17:	+14 57	-19 08.1	17:	+03 42	-23 22.4
18:	+14 55	-09 51.0	18:	+14 44	-19 22.4	18:	+03 12	-23 24.0
19:	+15 06	-10 12.6	19:	+14 31	-19 36.3	19:	+02 43	-23 25.2
20:	+15 16	-10 34.1	20:	+14 17	-19 49.8	20:	+02 13	-23 25.9
21:	+15 26	-10 55.5	21:	+14 01	-20 03.0	21:	+01 43	-23 26.2
22:	+15 35	-11 16.6	22:	+13 46	-20 15.8	22:	+01 13	-23 25.9
23:	+15 43	-11 37.6	23:	+13 29	-20 28.3	23:	+00 44	-23 25.2
24:	+15 51	-11 58.5	24:	+13 12	-20 40.4	24:	+00 14	-23 24.0
25:	+15 58	-12 19.1	25:	+12 53	-20 52.0	25:	-00 16	-23 22.4
26:	+16 04	-12 39.6	26:	+12 35	-21 03.3	26:	-00 45	-23 20.3
27:	+16 09	-12 59.8	27:	+12 15	-21 14.2	27:	-01 15	-23 17.7
28:	+16 14	-13 19.9	28:	+11 55	-21 24.7	28:	-01 44	-23 14.7
29:	+16 18	-13 39.7	29:	+11 34	-21 34.8	29:	-02 13	-23 11.2
30:	+16 21	-13 59.3	30:	+11 12	-21 44.5	30:	-02 42	-23 07.2
31:	+16 24	-14 18.7				31:	-03 11	-23 02.7