

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

JAN 2018			FEB 2018			MRT 2018		
DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "
01:	-03 33	-22 58.9	01:	-13 33	-17 02.6	01:	-12 20	-07 30.8
02:	-04 01	-22 53.6	02:	-13 41	-16 45.3	02:	-12 08	-07 08.0
03:	-04 28	-22 47.9	03:	-13 47	-16 27.8	03:	-11 55	-06 45.0
04:	-04 55	-22 41.8	04:	-13 53	-16 09.9	04:	-11 42	-06 22.0
05:	-05 22	-22 35.1	05:	-13 58	-15 51.8	05:	-11 29	-05 58.8
06:	-05 49	-22 28.1	06:	-14 02	-15 33.4	06:	-11 15	-05 35.6
07:	-06 15	-22 20.6	07:	-14 06	-15 14.7	07:	-11 01	-05 12.3
08:	-06 40	-22 12.6	08:	-14 09	-14 55.8	08:	-10 46	-04 48.9
09:	-07 05	-22 04.3	09:	-14 11	-14 36.6	09:	-10 32	-04 25.5
10:	-07 30	-21 55.4	10:	-14 12	-14 17.2	10:	-10 16	-04 02.0
11:	-07 54	-21 46.2	11:	-14 12	-13 57.5	11:	-10 01	-03 38.4
12:	-08 17	-21 36.5	12:	-14 12	-13 37.6	12:	-09 45	-03 14.8
13:	-08 40	-21 26.5	13:	-14 11	-13 17.5	13:	-09 29	-02 51.2
14:	-09 02	-21 16.0	14:	-14 09	-12 57.2	14:	-09 12	-02 27.5
15:	-09 23	-21 05.0	15:	-14 06	-12 36.6	15:	-08 56	-02 03.8
16:	-09 44	-20 53.7	16:	-14 03	-12 15.9	16:	-08 39	-01 40.1
17:	-10 04	-20 42.0	17:	-13 59	-11 54.9	17:	-08 22	-01 16.4
18:	-10 24	-20 29.9	18:	-13 54	-11 33.8	18:	-08 04	-00 52.7
19:	-10 42	-20 17.4	19:	-13 49	-11 12.5	19:	-07 47	-00 28.9
20:	-11 00	-20 04.6	20:	-13 43	-10 51.0	20:	-07 29	-00 05.2
21:	-11 17	-19 51.3	21:	-13 36	-10 29.3	21:	-07 12	+00 18.5
22:	-11 34	-19 37.7	22:	-13 29	-10 07.5	22:	-06 54	+00 42.2
23:	-11 49	-19 23.7	23:	-13 21	-09 45.5	23:	-06 36	+01 05.9
24:	-12 04	-19 09.4	24:	-13 12	-09 23.4	24:	-06 18	+01 29.5
25:	-12 18	-18 54.7	25:	-13 03	-09 01.1	25:	-05 60	+01 53.1
26:	-12 31	-18 39.7	26:	-12 53	-08 38.8	26:	-05 41	+02 16.7
27:	-12 44	-18 24.3	27:	-12 42	-08 16.2	27:	-05 23	+02 40.2
28:	-12 55	-18 08.6	28:	-12 31	-07 53.6	28:	-05 05	+03 03.6
29:	-13 06	-17 52.5				29:	-04 47	+03 27.0
30:	-13 16	-17 36.2				30:	-04 29	+03 50.3
31:	-13 25	-17 19.5				31:	-04 11	+04 13.6

APR 2018			MEI 2018			JUN 2018		
DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "
01:	-03 53	+04 36.7	01:	+02 54	+15 07.9	01:	+02 11	+22 04.6
02:	-03 35	+04 59.8	02:	+03 01	+15 25.9	02:	+02 02	+22 12.5
03:	-03 17	+05 22.8	03:	+03 08	+15 43.6	03:	+01 52	+22 19.9
04:	-02 60	+05 45.7	04:	+03 14	+16 01.1	04:	+01 42	+22 27.0
05:	-02 42	+06 08.5	05:	+03 19	+16 18.3	05:	+01 31	+22 33.7
06:	-02 25	+06 31.2	06:	+03 24	+16 35.2	06:	+01 21	+22 40.1
07:	-02 08	+06 53.8	07:	+03 28	+16 51.8	07:	+01 10	+22 46.0
08:	-01 52	+07 16.3	08:	+03 31	+17 08.2	08:	+00 58	+22 51.5
09:	-01 35	+07 38.7	09:	+03 34	+17 24.3	09:	+00 46	+22 56.6
10:	-01 19	+08 00.9	10:	+03 37	+17 40.1	10:	+00 34	+23 01.3
11:	-01 03	+08 23.0	11:	+03 38	+17 55.6	11:	+00 22	+23 05.6
12:	-00 47	+08 44.9	12:	+03 39	+18 10.8	12:	+00 10	+23 09.5
13:	-00 32	+09 06.8	13:	+03 40	+18 25.7	13:	-00 03	+23 13.0
14:	-00 17	+09 28.4	14:	+03 40	+18 40.3	14:	-00 15	+23 16.1
15:	-00 03	+09 49.9	15:	+03 40	+18 54.5	15:	-00 28	+23 18.8
16:	+00 11	+10 11.3	16:	+03 38	+19 08.5	16:	-00 41	+23 21.0
17:	+00 25	+10 32.4	17:	+03 37	+19 22.1	17:	-00 54	+23 22.9
18:	+00 39	+10 53.4	18:	+03 35	+19 35.4	18:	-01 07	+23 24.3
19:	+00 52	+11 14.2	19:	+03 32	+19 48.4	19:	-01 21	+23 25.3
20:	+01 05	+11 34.9	20:	+03 29	+20 01.0	20:	-01 34	+23 25.9
21:	+01 17	+11 55.3	21:	+03 25	+20 13.3	21:	-01 47	+23 26.1
22:	+01 29	+12 15.6	22:	+03 20	+20 25.2	22:	-01 60	+23 25.9
23:	+01 40	+12 35.6	23:	+03 16	+20 36.8	23:	-02 13	+23 25.3
24:	+01 51	+12 55.4	24:	+03 10	+20 48.0	24:	-02 26	+23 24.2
25:	+02 02	+13 15.0	25:	+03 04	+20 58.8	25:	-02 38	+23 22.7
26:	+02 12	+13 34.4	26:	+02 58	+21 09.4	26:	-02 51	+23 20.9
27:	+02 21	+13 53.6	27:	+02 51	+21 19.5	27:	-03 03	+23 18.6
28:	+02 30	+14 12.5	28:	+02 44	+21 29.3	28:	-03 16	+23 15.9
29:	+02 39	+14 31.2	29:	+02 37	+21 38.7	29:	-03 28	+23 12.8
30:	+02 47	+14 49.7	30:	+02 29	+21 47.7	30:	-03 39	+23 09.3
			31:	+02 20	+21 56.3			

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

JUL 2018			AUG 2018			SEP 2018		
DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "
01:	-03 51	+23 05.4	01:	-06 20	+17 57.8	01:	-00 01	+08 12.5
02:	-04 02	+23 01.1	02:	-06 16	+17 42.5	02:	+00 18	+07 50.7
03:	-04 13	+22 56.4	03:	-06 11	+17 26.9	03:	+00 38	+07 28.7
04:	-04 24	+22 51.3	04:	-06 06	+17 11.0	04:	+00 58	+07 06.6
05:	-04 35	+22 45.7	05:	-06 00	+16 54.9	05:	+01 18	+06 44.4
06:	-04 45	+22 39.8	06:	-05 54	+16 38.5	06:	+01 38	+06 22.1
07:	-04 55	+22 33.5	07:	-05 47	+16 21.8	07:	+01 58	+05 59.7
08:	-05 04	+22 26.8	08:	-05 39	+16 04.8	08:	+02 19	+05 37.1
09:	-05 13	+22 19.8	09:	-05 31	+15 47.6	09:	+02 39	+05 14.5
10:	-05 22	+22 12.3	10:	-05 22	+15 30.1	10:	+03 00	+04 51.8
11:	-05 30	+22 04.4	11:	-05 13	+15 12.4	11:	+03 21	+04 29.0
12:	-05 38	+21 56.2	12:	-05 03	+14 54.4	12:	+03 42	+04 06.1
13:	-05 46	+21 47.6	13:	-04 53	+14 36.2	13:	+04 03	+03 43.2
14:	-05 52	+21 38.6	14:	-04 42	+14 17.8	14:	+04 25	+03 20.2
15:	-05 59	+21 29.3	15:	-04 30	+13 59.2	15:	+04 46	+02 57.1
16:	-06 05	+21 19.6	16:	-04 18	+13 40.3	16:	+05 07	+02 34.0
17:	-06 10	+21 09.5	17:	-04 05	+13 21.2	17:	+05 29	+02 10.9
18:	-06 15	+20 59.1	18:	-03 52	+13 01.9	18:	+05 50	+01 47.6
19:	-06 19	+20 48.3	19:	-03 39	+12 42.4	19:	+06 12	+01 24.4
20:	-06 23	+20 37.2	20:	-03 24	+12 22.7	20:	+06 33	+01 01.1
21:	-06 26	+20 25.7	21:	-03 10	+12 02.8	21:	+06 54	+00 37.8
22:	-06 28	+20 13.8	22:	-02 55	+11 42.7	22:	+07 16	+00 14.5
23:	-06 30	+20 01.7	23:	-02 39	+11 22.4	23:	+07 37	-00 08.8
24:	-06 31	+19 49.2	24:	-02 23	+11 02.0	24:	+07 58	-00 32.2
25:	-06 32	+19 36.4	25:	-02 06	+10 41.3	25:	+08 19	-00 55.5
26:	-06 32	+19 23.2	26:	-01 50	+10 20.5	26:	+08 40	-01 18.9
27:	-06 32	+19 09.8	27:	-01 32	+09 59.6	27:	+09 00	-01 42.3
28:	-06 31	+18 56.0	28:	-01 15	+09 38.5	28:	+09 20	-02 05.6
29:	-06 29	+18 41.9	29:	-00 57	+09 17.2	29:	+09 41	-02 28.9
30:	-06 27	+18 27.5	30:	-00 38	+08 55.8	30:	+10 00	-02 52.2
31:	-06 24	+18 12.8	31:	-00 20	+08 34.2			

OKT 2018			NOV 2018			DEC 2018		
DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "	DA-TUM	E.T. m s	DEC. ° ' "
01:	+10 20	-03 15.5	01:	+16 26	-14 29.0	01:	+11 01	-21 49.5
02:	+10 39	-03 38.7	02:	+16 27	-14 48.1	02:	+10 39	-21 58.5
03:	+10 58	-04 01.9	03:	+16 27	-15 06.9	03:	+10 15	-22 07.2
04:	+11 16	-04 25.1	04:	+16 27	-15 25.4	04:	+09 51	-22 15.4
05:	+11 35	-04 48.2	05:	+16 25	-15 43.8	05:	+09 26	-22 23.1
06:	+11 52	-05 11.2	06:	+16 23	-16 01.8	06:	+09 01	-22 30.5
07:	+12 10	-05 34.2	07:	+16 20	-16 19.6	07:	+08 36	-22 37.3
08:	+12 27	-05 57.1	08:	+16 16	-16 37.1	08:	+08 09	-22 43.8
09:	+12 43	-06 20.0	09:	+16 11	-16 54.4	09:	+07 43	-22 49.8
10:	+12 59	-06 42.7	10:	+16 06	-17 11.3	10:	+07 16	-22 55.4
11:	+13 15	-07 05.4	11:	+15 59	-17 28.0	11:	+06 48	-23 00.5
12:	+13 30	-07 27.9	12:	+15 52	-17 44.3	12:	+06 20	-23 05.1
13:	+13 45	-07 50.4	13:	+15 44	-18 00.4	13:	+05 52	-23 09.3
14:	+13 59	-08 12.7	14:	+15 35	-18 16.1	14:	+05 23	-23 13.0
15:	+14 12	-08 35.0	15:	+15 25	-18 31.5	15:	+04 55	-23 16.3
16:	+14 25	-08 57.1	16:	+15 15	-18 46.6	16:	+04 26	-23 19.1
17:	+14 38	-09 19.1	17:	+15 03	-19 01.4	17:	+03 56	-23 21.4
18:	+14 50	-09 40.9	18:	+14 51	-19 15.8	18:	+03 27	-23 23.3
19:	+15 01	-10 02.6	19:	+14 38	-19 29.8	19:	+02 58	-23 24.7
20:	+15 12	-10 24.2	20:	+14 24	-19 43.5	20:	+02 28	-23 25.6
21:	+15 22	-10 45.6	21:	+14 10	-19 56.9	21:	+01 58	-23 26.1
22:	+15 31	-11 06.8	22:	+13 54	-20 09.9	22:	+01 29	-23 26.1
23:	+15 40	-11 27.9	23:	+13 38	-20 22.5	23:	+00 59	-23 25.6
24:	+15 48	-11 48.8	24:	+13 21	-20 34.7	24:	+00 29	-23 24.6
25:	+15 55	-12 09.5	25:	+13 03	-20 46.6	25:	-00 01	-23 23.2
26:	+16 02	-12 30.0	26:	+12 45	-20 58.1	26:	-00 30	-23 21.3
27:	+16 08	-12 50.4	27:	+12 26	-21 09.2	27:	-00 60	-23 19.0
28:	+16 13	-13 10.5	28:	+12 06	-21 19.8	28:	-01 29	-23 16.1
29:	+16 17	-13 30.5	29:	+11 45	-21 30.1	29:	-01 58	-23 12.8
30:	+16 21	-13 50.2	30:	+11 23	-21 40.0	30:	-02 28	-23 09.1
31:	+16 24	-14 09.7				31:	-02 56	-23 04.8