



Sundials

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TABLE 1 - Mean value of the solar declination (for 1991, noon UT (GMT), adapted from The Nautical Almanac 1991, HMSO, UK, p.10-253)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
1	-23 01	-17 10	-07 40	+04 27	+15 01	+22 02	+23 08	+18 04	+08 22	-03 06	-14 22	-21 46
2	-22 56	-16 53	-07 17	+04 50	+15 19	+22 10	+23 03	+17 49	+08 00	-03 29	-14 41	-21 55
3	-22 51	-16 35	-06 54	+05 14	+15 37	+22 17	+22 59	+17 34	+07 38	-03 53	-15 00	-22 04
4	-22 45	-16 17	-06 31	+05 36	+15 54	+22 24	+22 54	+17 18	+07 16	-04 16	-15 18	-22 13
5	-22 38	-15 59	-06 08	+05 59	+16 11	+22 31	+22 49	+17 02	+06 54	-04 39	-15 37	-22 20
6	-22 31	-15 41	-05 45	+06 22	+16 28	+22 38	+22 43	+16 46	+06 32	-05 02	-15 55	-22 28
7	-22 24	-15 23	-05 22	+06 45	+16 45	+22 44	+22 37	+16 29	+06 09	-05 25	-16 13	-22 35
8	-22 16	-15 04	-04 59	+07 07	+17 02	+22 50	+22 30	+16 12	+05 47	-05 48	-16 30	-22 42
9	-22 08	-14 45	-04 35	+07 30	+17 18	+22 55	+22 23	+15 55	+05 24	-06 11	-16 48	-22 48
10	-21 59	-14 25	-04 12	+07 52	+17 34	+23 00	+22 16	+15 38	+05 01	-06 34	-17 05	-22 54
11	-21 50	-14 06	-03 48	+08 14	+17 49	+23 04	+22 08	+15 20	+04 39	-06 56	-17 22	-22 59
12	-21 41	-13 46	-03 25	+08 36	+18 05	+23 08	+22 00	+15 02	+04 16	-07 19	-17 38	-23 04
13	-21 31	-13 26	-03 01	+08 58	+18 20	+23 12	+21 52	+14 44	+03 53	-07 41	-17 54	-23 08
14	-21 21	-13 06	-02 37	+09 20	+18 35	+23 15	+21 43	+14 26	+03 30	-08 04	-18 10	-23 12
15	-21 10	-12 45	-02 14	+09 41	+18 49	+23 18	+21 34	+14 07	+03 07	-08 26	-18 26	-23 15
16	-20 59	-12 25	-01 50	+10 03	+19 03	+23 21	+21 24	+13 48	+02 44	-08 48	-18 41	-23 18
17	-20 47	-12 04	-01 26	+10 24	+19 17	+23 23	+21 14	+13 29	+02 21	-09 10	-18 56	-23 21
18	-20 35	-11 43	-01 02	+10 45	+19 30	+23 24	+21 04	+13 10	+01 57	-09 32	-19 10	-23 23
19	-20 23	-11 21	-00 39	+11 06	+19 43	+23 25	+20 53	+12 51	+01 34	-09 54	-19 25	-23 25
20	-20 10	-11 00	-00 15	+11 27	+19 56	+23 26	+20 42	+12 31	+01 11	-10 16	-19 38	-23 26
21	-19 57	-10 38	+00 09	+11 47	+20 08	+23 26.4	+20 31	+12 11	+00 47	-10 37	-19 52	-23 26.3
22	-19 44	-10 17	+00 33	+12 07	+20 21	+23 26	+20 19	+11 51	+00 24	-10 58	-20 05	-23 26.4
23	-19 30	-09 55	+00 56	+12 28	+20 32	+23 26	+20 07	+11 31	+00 01	-11 20	-20 18	-23 26.1
24	-19 16	-09 33	+01 20	+12 47	+20 44	+23 25	+19 55	+11 11	-00 23	-11 41	-20 30	-23 25
25	-19 01	-09 10	+01 44	+13 07	+20 55	+23 24	+19 42	+10 50	-00 46	-11 01	-20 42	-23 24

26	-18 46	-08 48	+02 07	+13 27	+21 05	+23 22	+19 29	+10 29	-01 09	-12 22	-20 54	-23 22
27	-18 31	-08 26	+02 31	+13 46	+21 16	+23 20	+19 16	+10 09	-01 33	-12 42	-21 05	-23 20
28	-18 15	-08 03	+02 54	+14 05	+21 26	+23 18	+19 02	+09 47	-01 56	-13 03	-21 16	-23 18
29	-17 59		+03 18	+14 24	+21 35	+23 15	+18 48	+09 26	-02 19	-13 23	-21 26	-23 15
30	-17 43		+03 41	+14 42	+21 44	+23 11	+18 34	+09 05	-02 43	-13 43	-21 36	-23 11
31	-17 27		+04 04		+21 53		+18 19	+08 43		-14 02		-23 07

Note: declination to north of the Equator is positive, to south is negative; thus for 11 Jan 1991, solar declination angle was 21 deg 50 min south of the Equator

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