

2024

## Zonsdeclinatie en tijdsvereffening om 12:00 uur MET

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Bron: TheNauticalAlmanac.com

da- tum	januari		februari		maart		april		mei		juni		da- tum
	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	
1	-23.022	-3:18	-17.175	-13:28	-7.308	-12:12	4.823	-3:42	15.300	2:58	22.153	2:05	1
2	-22.938	-3:46	-16.890	-13:36	-6.927	-12:00	5.208	-3:25	15.597	3:04	22.280	1:56	2
3	-22.847	-4:14	-16.600	-13:43	-6.542	-11:48	5.590	-3:07	15.890	3:10	22.402	1:46	3
4	-22.747	-4:41	-16.303	-13:50	-6.157	-11:34	5.972	-2:50	16.178	3:16	22.517	1:35	4
5	-22.640	-5:08	-16.003	-13:55	-5.770	-11:21	6.352	-2:33	16.463	3:21	22.625	1:24	5
6	-22.527	-5:35	-15.698	-14:00	-5.382	-11:07	6.728	-2:16	16.743	3:25	22.727	1:13	6
7	-22.405	-6:02	-15.390	-14:04	-4.993	-10:53	7.105	-1:59	17.018	3:29	22.822	1:02	7
8	-22.275	-6:28	-15.077	-14:07	-4.602	-10:38	7.478	-1:43	17.288	3:32	22.910	0:50	8
9	-22.138	-6:53	-14.758	-14:09	-4.210	-10:23	7.850	-1:27	17.553	3:34	22.992	0:38	9
10	-21.995	-7:18	-14.437	-14:11	-3.818	-10:08	8.220	-1:11	17.815	3:36	23.067	0:26	10
11	-21.845	-7:42	-14.110	-14:12	-3.425	-9:52	8.587	-0:55	18.070	3:38	23.133	0:14	11
12	-21.687	-8:06	-13.780	-14:12	-3.032	-9:36	8.952	-0:40	18.322	3:39	23.195	0:01	12
13	-21.522	-8:29	-13.447	-14:11	-2.637	-9:20	9.313	-0:24	18.567	3:39	23.250	-0:11	13
14	-21.350	-8:51	-13.108	-14:09	-2.242	-9:03	9.673	-0:10	18.807	3:39	23.297	-0:24	14
15	-21.172	-9:13	-12.768	-14:07	-1.847	-8:46	10.030	0:04	19.042	3:38	23.338	-0:37	15
16	-20.985	-9:34	-12.423	-14:04	-1.452	-8:29	10.385	0:19	19.270	3:37	23.372	-0:50	16
17	-20.793	-9:54	-12.077	-14:00	-1.057	-8:12	10.735	0:32	19.495	3:35	23.398	-1:03	17
18	-20.595	-10:14	-11.725	-13:56	-0.660	-7:55	11.083	0:46	19.713	3:32	23.418	-1:16	18
19	-20.390	-10:33	-11.372	-13:51	-0.265	-7:37	11.428	0:59	19.925	3:29	23.432	-1:29	19
20	-20.178	-10:51	-11.015	-13:45	0.130	-7:19	11.770	1:11	20.133	3:26	23.438	-1:42	20
21	-19.960	-11:08	-10.655	-13:38	0.525	-7:01	12.110	1:23	20.333	3:22	23.437	-1:55	21
22	-19.735	-11:25	-10.292	-13:31	0.920	-6:43	12.445	1:35	20.530	3:17	23.430	-2:08	22
23	-19.505	-11:41	-9.927	-13:23	1.313	-6:25	12.777	1:46	20.720	3:12	23.415	-2:20	23
24	-19.268	-11:56	-9.560	-13:15	1.707	-6:07	13.105	1:57	20.903	3:07	23.393	-2:33	24
25	-19.027	-12:10	-9.190	-13:06	2.100	-5:49	13.430	2:07	21.080	3:01	23.367	-2:46	25
26	-18.778	-12:24	-8.818	-12:56	2.492	-5:31	13.752	2:17	21.252	2:54	23.332	-2:58	26
27	-18.525	-12:36	-8.443	-12:46	2.883	-5:12	14.068	2:26	21.418	2:47	23.290	-3:11	27
28	-18.267	-12:48	-8.067	-12:35	3.273	-4:54	14.383	2:35	21.578	2:40	23.240	-3:23	28
29	-18.002	-13:00	-7.688	-12:24	3.663	-4:36	14.692	2:43	21.732	2:32	23.185	-3:35	29
30	-17.732	-13:10			4.052	-4:18	14.998	2:51	21.878	2:23	23.123	-3:47	30
31	-17.457	-13:20			4.438	-4:00			22.018	2:14			31

2024

## Zonsdeclinatie en tijdsvereffening om 12:00 uur MET

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da- tum	juli		augustus		september		oktober		november		december		da- tum
	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	Decl. (°)	E (m:s)	
1	23.055	-3:58	17.825	-6:19	8.008	0:09	-3.472	10:30	-14.660	16:26	-21.912	10:50	1
2	22.978	-4:10	17.567	-6:15	7.643	0:28	-3.860	10:49	-14.977	16:27	-22.058	10:26	2
3	22.897	-4:21	17.305	-6:10	7.275	0:48	-4.247	11:08	-15.287	16:27	-22.198	10:02	3
4	22.807	-4:32	17.037	-6:04	6.905	1:08	-4.632	11:26	-15.595	16:26	-22.330	9:38	4
5	22.712	-4:42	16.765	-5:58	6.535	1:28	-5.017	11:44	-15.898	16:24	-22.457	9:13	5
6	22.610	-4:52	16.488	-5:52	6.162	1:48	-5.400	12:02	-16.197	16:22	-22.575	8:48	6
7	22.502	-5:02	16.208	-5:44	5.787	2:08	-5.782	12:19	-16.490	16:18	-22.685	8:22	7
8	22.385	-5:11	15.923	-5:36	5.410	2:29	-6.163	12:36	-16.780	16:14	-22.788	7:56	8
9	22.263	-5:20	15.633	-5:28	5.033	2:50	-6.543	12:52	-17.065	16:09	-22.885	7:29	9
10	22.137	-5:28	15.340	-5:19	4.653	3:11	-6.922	13:08	-17.343	16:03	-22.973	7:02	10
11	22.002	-5:36	15.043	-5:09	4.273	3:32	-7.298	13:23	-17.618	15:56	-23.053	6:34	11
12	21.862	-5:44	14.742	-4:59	3.892	3:53	-7.673	13:38	-17.888	15:49	-23.127	6:06	12
13	21.713	-5:51	14.437	-4:48	3.508	4:14	-8.047	13:53	-18.153	15:40	-23.193	5:38	13
14	21.562	-5:58	14.127	-4:36	3.125	4:36	-8.417	14:07	-18.412	15:31	-23.250	5:09	14
15	21.402	-6:04	13.813	-4:24	2.740	4:58	-8.787	14:20	-18.665	15:21	-23.300	4:40	15
16	21.237	-6:09	13.497	-4:12	2.355	5:19	-9.153	14:33	-18.913	15:10	-23.343	4:12	16
17	21.065	-6:14	13.177	-3:59	1.968	5:40	-9.518	14:45	-19.157	14:58	-23.378	3:42	17
18	20.888	-6:18	12.853	-3:46	1.582	6:02	-9.882	14:57	-19.393	14:46	-23.405	3:13	18
19	20.705	-6:22	12.527	-3:32	1.193	6:24	-10.242	15:08	-19.625	14:32	-23.423	2:43	19
20	20.517	-6:25	12.197	-3:17	0.805	6:45	-10.600	15:18	-19.850	14:18	-23.435	2:14	20
21	20.322	-6:28	11.863	-3:02	0.417	7:06	-10.955	15:28	-20.070	14:03	-23.438	1:44	21
22	20.122	-6:30	11.527	-2:46	0.028	7:28	-11.307	15:37	-20.283	13:47	-23.433	1:14	22
23	19.917	-6:32	11.187	-2:31	-0.362	7:49	-11.657	15:45	-20.490	13:30	-23.422	0:44	23
24	19.705	-6:33	10.845	-2:14	-0.750	8:10	-12.003	15:53	-20.690	13:13	-23.402	0:14	24
25	19.488	-6:33	10.500	-1:58	-1.140	8:30	-12.348	16:00	-20.885	12:54	-23.373	-0:16	25
26	19.267	-6:33	10.152	-1:41	-1.530	8:51	-12.688	16:06	-21.073	12:36	-23.338	-0:45	26
27	19.038	-6:32	9.800	-1:23	-1.918	9:11	-13.027	16:11	-21.253	12:16	-23.293	-1:15	27
28	18.807	-6:31	9.447	-1:06	-2.308	9:31	-13.360	16:16	-21.428	11:55	-23.243	-1:44	28
29	18.568	-6:29	9.090	-0:48	-2.697	9:51	-13.690	16:20	-21.597	11:34	-23.183	-2:13	29
30	18.325	-6:26	8.732	-0:29	-3.085	10:11	-14.018	16:23	-21.757	11:12	-23.117	-2:42	30
31	18.078	-6:23	8.372	-0:10			-14.342	16:25			-23.042	-3:11	31