

2023

## 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	-23.003	-3:24	-17.107	-13:30	-7.597	-12:22	4.532	-3:57	15.073	2:52	22.052	2:11	1
2	-22.917	-3:52	-16.820	-13:38	-7.215	-12:10	4.917	-3:39	15.373	2:58	22.185	2:02	2
3	-22.823	-4:20	-16.528	-13:44	-6.833	-11:57	5.302	-3:21	15.670	3:05	22.310	1:52	3
4	-22.722	-4:48	-16.232	-13:50	-6.448	-11:44	5.683	-3:04	15.962	3:11	22.430	1:42	4
5	-22.613	-5:14	-15.932	-13:56	-6.063	-11:31	6.063	-2:46	16.248	3:16	22.543	1:32	5
6	-22.497	-5:41	-15.625	-14:00	-5.677	-11:18	6.443	-2:29	16.532	3:21	22.650	1:21	6
7	-22.373	-6:07	-15.315	-14:04	-5.288	-11:03	6.820	-2:12	16.810	3:26	22.750	1:10	7
8	-22.243	-6:33	-15.002	-14:06	-4.898	-10:49	7.195	-1:55	17.083	3:29	22.843	0:58	8
9	-22.105	-6:58	-14.682	-14:08	-4.508	-10:34	7.568	-1:39	17.353	3:32	22.930	0:47	9
10	-21.960	-7:22	-14.360	-14:10	-4.117	-10:19	7.938	-1:22	17.617	3:35	23.010	0:35	10
11	-21.807	-7:46	-14.033	-14:10	-3.725	-10:03	8.307	-1:06	17.877	3:37	23.083	0:23	11
12	-21.648	-8:10	-13.702	-14:10	-3.332	-9:47	8.673	-0:51	18.130	3:38	23.148	0:11	12
13	-21.482	-8:32	-13.368	-14:09	-2.938	-9:31	9.038	-0:36	18.380	3:39	23.208	-0:02	13
14	-21.308	-8:54	-13.030	-14:07	-2.543	-9:15	9.400	-0:20	18.623	3:39	23.262	-0:14	14
15	-21.128	-9:16	-12.688	-14:05	-2.148	-8:58	9.758	-0:06	18.863	3:39	23.307	-0:27	15
16	-20.942	-9:37	-12.343	-14:02	-1.753	-8:41	10.115	0:08	19.097	3:38	23.347	-0:40	16
17	-20.747	-9:57	-11.993	-13:58	-1.358	-8:24	10.468	0:22	19.325	3:36	23.378	-0:53	17
18	-20.547	-10:17	-11.642	-13:53	-0.963	-8:07	10.818	0:36	19.548	3:34	23.403	-1:06	18
19	-20.340	-10:36	-11.288	-13:48	-0.567	-7:50	11.167	0:49	19.765	3:31	23.422	-1:20	19
20	-20.127	-10:54	-10.930	-13:42	-0.172	-7:32	11.512	1:02	19.977	3:28	23.433	-1:33	20
21	-19.908	-11:11	-10.570	-13:36	0.223	-7:14	11.853	1:14	20.182	3:24	23.438	-1:46	21
22	-19.682	-11:28	-10.207	-13:29	0.618	-6:56	12.192	1:26	20.382	3:20	23.437	-1:59	22
23	-19.450	-11:44	-9.840	-13:21	1.013	-6:39	12.527	1:37	20.577	3:15	23.427	-2:12	23
24	-19.212	-11:59	-9.472	-13:12	1.408	-6:21	12.857	1:48	20.765	3:10	23.410	-2:25	24
25	-18.968	-12:13	-9.102	-13:03	1.802	-6:03	13.185	1:59	20.948	3:04	23.388	-2:38	25
26	-18.718	-12:26	-8.728	-12:54	2.195	-5:45	13.510	2:09	21.123	2:58	23.358	-2:51	26
27	-18.463	-12:39	-8.353	-12:44	2.587	-5:27	13.830	2:18	21.295	2:51	23.322	-3:03	27
28	-18.203	-12:51	-7.975	-12:33	2.978	-5:09	14.147	2:27	21.458	2:44	23.278	-3:16	28
29	-17.937	-13:02			3.368	-4:50	14.460	2:36	21.617	2:36	23.227	-3:28	29
30	-17.665	-13:12			3.758	-4:32	14.768	2:44	21.768	2:28	23.170	-3:40	30
31	-17.388	-13:21			4.145	-4:14			21.913	2:20			31

2023

## 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	23.107	-3:51	18.015	-6:23	8.283	-0:06	-3.178	10:15	-14.418	16:25	-21.795	11:06	1
2	23.037	-4:03	17.762	-6:19	7.920	0:13	-3.565	10:34	-14.737	16:27	-21.947	10:44	2
3	22.958	-4:14	17.503	-6:14	7.553	0:33	-3.952	10:54	-15.052	16:27	-22.092	10:21	3
4	22.875	-4:24	17.240	-6:09	7.187	0:52	-4.338	11:12	-15.362	16:27	-22.230	9:57	4
5	22.785	-4:35	16.972	-6:03	6.817	1:12	-4.723	11:30	-15.667	16:26	-22.362	9:33	5
6	22.687	-4:45	16.698	-5:57	6.445	1:32	-5.108	11:48	-15.970	16:24	-22.485	9:08	6
7	22.583	-4:55	16.422	-5:50	6.072	1:53	-5.492	12:06	-16.267	16:21	-22.602	8:42	7
8	22.473	-5:04	16.140	-5:42	5.697	2:14	-5.873	12:23	-16.560	16:18	-22.710	8:16	8
9	22.357	-5:14	15.853	-5:34	5.320	2:34	-6.253	12:40	-16.848	16:13	-22.812	7:50	9
10	22.233	-5:22	15.563	-5:26	4.943	2:55	-6.633	12:56	-17.132	16:08	-22.907	7:22	10
11	22.103	-5:30	15.270	-5:16	4.563	3:16	-7.012	13:12	-17.410	16:02	-22.993	6:55	11
12	21.968	-5:38	14.972	-5:06	4.182	3:37	-7.387	13:27	-17.683	15:54	-23.072	6:27	12
13	21.827	-5:46	14.668	-4:56	3.800	3:58	-7.762	13:42	-17.953	15:46	-23.143	5:59	13
14	21.678	-5:53	14.362	-4:45	3.417	4:20	-8.135	13:56	-18.217	15:38	-23.207	5:31	14
15	21.523	-5:59	14.052	-4:34	3.033	4:41	-8.507	14:10	-18.473	15:28	-23.263	5:02	15
16	21.363	-6:05	13.738	-4:22	2.647	5:02	-8.875	14:23	-18.727	15:18	-23.312	4:33	16
17	21.197	-6:11	13.420	-4:09	2.262	5:24	-9.242	14:36	-18.973	15:06	-23.352	4:04	17
18	21.023	-6:16	13.100	-3:56	1.875	5:45	-9.607	14:47	-19.215	14:54	-23.385	3:34	18
19	20.845	-6:20	12.775	-3:43	1.487	6:06	-9.970	14:59	-19.452	14:41	-23.410	3:04	19
20	20.660	-6:24	12.447	-3:29	1.098	6:28	-10.330	15:10	-19.680	14:28	-23.427	2:35	20
21	20.470	-6:27	12.115	-3:14	0.710	6:49	-10.687	15:20	-19.905	14:13	-23.437	2:05	21
22	20.273	-6:30	11.782	-2:59	0.322	7:10	-11.042	15:29	-20.122	13:58	-23.438	1:35	22
23	20.072	-6:32	11.443	-2:44	-0.068	7:32	-11.393	15:38	-20.333	13:42	-23.432	1:06	23
24	19.865	-6:33	11.103	-2:28	-0.457	7:53	-11.743	15:46	-20.540	13:25	-23.417	0:36	24
25	19.652	-6:34	10.760	-2:12	-0.847	8:14	-12.088	15:54	-20.738	13:07	-23.395	0:06	25
26	19.433	-6:34	10.413	-1:55	-1.235	8:34	-12.432	16:00	-20.932	12:49	-23.365	-0:24	26
27	19.210	-6:34	10.065	-1:38	-1.625	8:55	-12.772	16:06	-21.117	12:30	-23.327	-0:53	27
28	18.982	-6:33	9.713	-1:20	-2.013	9:15	-13.108	16:12	-21.297	12:10	-23.282	-1:22	28
29	18.748	-6:32	9.360	-1:02	-2.402	9:36	-13.440	16:16	-21.470	11:50	-23.228	-1:52	29
30	18.508	-6:29	9.003	-0:44	-2.790	9:56	-13.770	16:20	-21.635	11:28	-23.168	-2:20	30
31	18.265	-6:26	8.643	-0:25			-14.097	16:23			-23.098	-2:49	31