



## Venus 2025

Datum	$\alpha$	$\delta$	b	$\Delta$ (AE)	E	mv	$\varphi$	$\emptyset$	k	q (")	$\Delta\alpha$ (h:m)	$\Delta\delta$ (°)	l	r
1.01.	22:01	-13.6	-1.4	0.751	47 O	-4.4	83.7	22.21	0.555	9.89	3:15	9.4	51.5	0.722
4.01.	22:13	-12.3	-1.2	0.729	47 O	-4.4	85.3	22.89	0.541	10.51	3:13	10.5	56.3	0.722
7.01.	22:25	-10.9	-0.9	0.707	47 O	-4.4	87.0	23.61	0.526	11.19	3:12	11.5	61.1	0.722
10.01.	22:36	-9.5	-0.7	0.684	47 O	-4.4	88.8	24.38	0.511	11.93	3:10	12.4	65.9	0.721
13.01.	22:47	-8.1	-0.4	0.662	47 O	-4.4	90.6	25.20	0.495	12.72	3:08	13.3	70.7	0.721
16.01.	22:57	-6.7	-0.1	0.640	47 O	-4.5	92.4	26.07	0.479	13.59	3:06	14.2	75.6	0.721
19.01.	23:08	-5.3	0.2	0.618	47 O	-4.5	94.4	27.01	0.462	14.54	3:03	15.0	80.4	0.720
22.01.	23:18	-3.9	0.6	0.595	47 O	-4.5	96.4	28.01	0.444	15.57	3:00	15.8	85.3	0.720
25.01.	23:27	-2.5	1.0	0.573	46 O	-4.5	98.5	29.09	0.426	16.70	2:57	16.5	90.1	0.720
28.01.	23:36	-1.1	1.4	0.551	46 O	-4.6	100.8	30.24	0.407	17.94	2:53	17.1	94.9	0.719
31.01.	23:44	0.3	1.8	0.530	45 O	-4.6	103.1	31.49	0.387	19.32	2:50	17.7	99.8	0.719
3.02.	23:52	1.7	2.2	0.508	45 O	-4.6	105.6	32.82	0.366	20.82	2:45	18.2	104.7	0.719
6.02.	0:00	3.0	2.7	0.487	44 O	-4.6	108.2	34.25	0.344	22.47	2:41	18.6	109.5	0.719
9.02.	0:06	4.2	3.2	0.466	43 O	-4.6	111.0	35.79	0.321	24.30	2:35	18.9	114.4	0.719
12.02.	0:12	5.4	3.7	0.446	42 O	-4.6	113.9	37.44	0.297	26.31	2:29	19.1	119.3	0.719
15.02.	0:18	6.5	4.2	0.425	40 O	-4.6	117.1	39.20	0.272	28.52	2:23	19.2	124.1	0.718
18.02.	0:22	7.6	4.7	0.406	39 O	-4.6	120.4	41.07	0.247	30.94	2:16	19.2	129.0	0.718
21.02.	0:25	8.5	5.3	0.387	37 O	-4.6	124.1	43.05	0.220	33.58	2:07	19.1	133.9	0.718
24.02.	0:27	9.4	5.8	0.370	35 O	-4.6	127.9	45.13	0.193	36.44	1:58	18.8	138.8	0.718
27.02.	0:29	10.1	6.4	0.353	33 O	-4.6	132.1	47.28	0.165	39.49	1:48	18.4	143.6	0.719
2.03.	0:28	10.6	6.9	0.337	30 O	-4.6	136.6	49.46	0.137	42.69	1:37	17.8	148.5	0.719
5.03.	0:27	11.0	7.4	0.323	27 O	-4.5	141.3	51.62	0.110	45.96	1:24	17.0	153.4	0.719
8.03.	0:24	11.1	7.8	0.311	24 O	-4.4	146.3	53.70	0.084	49.20	1:10	16.0	158.3	0.719
11.03.	0:20	11.1	8.1	0.300	20 O	-4.4	151.6	55.60	0.060	52.25	0:55	14.8	163.1	0.719
14.03.	0:15	10.8	8.4	0.292	16 O	-4.3	156.9	57.22	0.040	54.93	0:39	13.3	168.0	0.719
17.03.	0:09	10.3	8.5	0.285	13 O	-4.2	162.0	58.46	0.024	57.04	0:22	11.7	172.9	0.720
20.03.	0:03	9.7	8.6	0.282	10 O	-4.1	166.3	59.22	0.014	58.38	0:04	9.8	177.7	0.720
23.03.	23:56	8.8	8.4	0.281	8 O	-4.0	168.3	59.44	0.010	58.82	-0:13	7.7	182.6	0.720
26.03.	23:49	7.8	8.1	0.282	9 W	-4.1	166.9	59.10	0.013	58.33	-0:31	5.6	187.4	0.721
29.03.	23:44	6.7	7.7	0.287	12 W	-4.1	162.9	58.22	0.022	56.94	-0:47	3.3	192.3	0.721
1.04.	23:39	5.6	7.2	0.293	16 W	-4.2	158.0	56.87	0.037	54.79	-1:03	1.1	197.1	0.721
4.04.	23:35	4.6	6.6	0.302	19 W	-4.3	152.7	55.14	0.056	52.06	-1:18	-1.1	202.0	0.722
7.04.	23:33	3.7	6.0	0.314	23 W	-4.4	147.5	53.15	0.079	48.98	-1:31	-3.2	206.8	0.722
10.04.	23:32	2.8	5.3	0.327	26 W	-4.4	142.4	50.99	0.104	45.70	-1:43	-5.1	211.6	0.722
13.04.	23:32	2.1	4.7	0.342	29 W	-4.5	137.7	48.75	0.130	42.40	-1:53	-6.9	216.4	0.723
16.04.	23:34	1.6	4.0	0.359	32 W	-4.5	133.2	46.50	0.158	39.17	-2:03	-8.5	221.2	0.723
19.04.	23:37	1.2	3.4	0.376	34 W	-4.5	129.0	44.30	0.185	36.10	-2:11	-10.0	226.0	0.724
22.04.	23:41	1.0	2.7	0.395	36 W	-4.5	125.1	42.18	0.212	33.23	-2:18	-11.2	230.8	0.724
25.04.	23:46	0.9	2.2	0.415	38 W	-4.5	121.5	40.16	0.239	30.58	-2:25	-12.3	235.6	0.724
28.04.	23:52	0.9	1.6	0.436	39 W	-4.5	118.1	38.26	0.264	28.15	-2:30	-13.3	240.4	0.725



Datum	$\alpha$	$\delta$	b	$\Delta$ (AE)	E	mv	$\varphi$	$\varnothing$	k	q (")	$\Delta\alpha$ (h:m)	$\Delta\delta$ (°)	l	r
1.05.	23:58	1.1	1.1	0.457	41 W	-4.5	115.0	36.47	0.289	25.93	-2:35	-14.0	245.2	0.725
4.05.	0:06	1.3	0.6	0.479	42 W	-4.5	112.0	34.80	0.313	23.91	-2:39	-14.6	249.9	0.726
7.05.	0:13	1.7	0.2	0.502	43 W	-4.5	109.2	33.24	0.336	22.08	-2:43	-15.1	254.7	0.726
10.05.	0:22	2.2	-0.2	0.525	44 W	-4.5	106.5	31.80	0.358	20.42	-2:46	-15.4	259.5	0.726
13.05.	0:31	2.7	-0.6	0.548	44 W	-4.5	104.0	30.45	0.379	18.91	-2:49	-15.7	264.2	0.727
16.05.	0:40	3.4	-0.9	0.571	45 W	-4.4	101.6	29.20	0.399	17.54	-2:52	-15.7	269.0	0.727
19.05.	0:50	4.1	-1.2	0.595	45 W	-4.4	99.4	28.04	0.419	16.30	-2:54	-15.7	273.7	0.727
22.05.	1:00	4.8	-1.5	0.619	45 W	-4.4	97.2	26.96	0.437	15.17	-2:56	-15.6	278.5	0.727
25.05.	1:10	5.6	-1.7	0.643	46 W	-4.4	95.1	25.95	0.455	14.13	-2:58	-15.3	283.2	0.728
28.05.	1:21	6.5	-1.9	0.667	46 W	-4.3	93.1	25.02	0.473	13.19	-2:59	-15.0	288.0	0.728
31.05.	1:31	7.4	-2.1	0.691	46 W	-4.3	91.2	24.15	0.490	12.32	-3:01	-14.6	292.7	0.728
3.06.	1:42	8.3	-2.2	0.715	46 W	-4.3	89.3	23.33	0.506	11.53	-3:02	-14.1	297.5	0.728
6.06.	1:54	9.2	-2.4	0.739	46 W	-4.3	87.5	22.57	0.522	10.79	-3:03	-13.5	302.2	0.728
9.06.	2:05	10.1	-2.5	0.763	46 W	-4.3	85.8	21.86	0.537	10.12	-3:04	-12.8	306.9	0.728
12.06.	2:17	11.0	-2.6	0.787	46 W	-4.2	84.1	21.19	0.552	9.50	-3:04	-12.1	311.7	0.728
15.06.	2:29	12.0	-2.6	0.811	45 W	-4.2	82.4	20.56	0.566	8.92	-3:05	-11.3	316.4	0.728
18.06.	2:41	12.9	-2.7	0.835	45 W	-4.2	80.8	19.98	0.580	8.39	-3:05	-10.5	321.2	0.728
21.06.	2:54	13.8	-2.7	0.859	45 W	-4.2	79.2	19.42	0.594	7.89	-3:05	-9.6	325.9	0.728
24.06.	3:06	14.7	-2.7	0.882	44 W	-4.2	77.6	18.91	0.607	7.43	-3:05	-8.7	330.7	0.728
27.06.	3:19	15.6	-2.7	0.906	44 W	-4.1	76.1	18.42	0.620	7.00	-3:05	-7.7	335.4	0.728
30.06.	3:32	16.4	-2.6	0.929	44 W	-4.1	74.6	17.95	0.633	6.59	-3:04	-6.7	340.2	0.728
3.07.	3:46	17.2	-2.6	0.952	43 W	-4.1	73.1	17.52	0.645	6.22	-3:03	-5.7	345.0	0.727
6.07.	3:59	18.0	-2.5	0.975	43 W	-4.1	71.7	17.11	0.657	5.87	-3:02	-4.7	349.7	0.727
9.07.	4:13	18.7	-2.5	0.998	42 W	-4.1	70.2	16.72	0.669	5.53	-3:01	-3.7	354.5	0.727
12.07.	4:27	19.3	-2.4	1.020	42 W	-4.1	68.8	16.35	0.681	5.22	-2:59	-2.6	359.2	0.727
15.07.	4:41	19.9	-2.3	1.042	41 W	-4.1	67.4	16.00	0.692	4.93	-2:57	-1.6	4.0	0.726
18.07.	4:55	20.5	-2.1	1.064	41 W	-4.0	66.1	15.67	0.703	4.66	-2:55	-0.6	8.8	0.726
21.07.	5:10	20.9	-2.0	1.086	40 W	-4.0	64.7	15.36	0.714	4.40	-2:52	0.5	13.6	0.726
24.07.	5:24	21.3	-1.9	1.107	40 W	-4.0	63.3	15.06	0.724	4.15	-2:50	1.4	18.4	0.725
27.07.	5:39	21.6	-1.8	1.129	39 W	-4.0	62.0	14.78	0.735	3.92	-2:47	2.4	23.1	0.725
30.07.	5:54	21.8	-1.6	1.149	38 W	-4.0	60.7	14.51	0.745	3.70	-2:44	3.3	27.9	0.724
2.08.	6:09	22.0	-1.5	1.170	38 W	-4.0	59.4	14.26	0.755	3.50	-2:41	4.2	32.7	0.724
5.08.	6:24	22.0	-1.3	1.190	37 W	-4.0	58.1	14.01	0.765	3.30	-2:37	5.0	37.5	0.724
8.08.	6:39	22.0	-1.2	1.210	37 W	-4.0	56.8	13.78	0.774	3.11	-2:33	5.8	42.3	0.723
11.08.	6:54	21.9	-1.0	1.230	36 W	-4.0	55.5	13.56	0.783	2.94	-2:30	6.6	47.1	0.723
14.08.	7:09	21.6	-0.8	1.249	35 W	-4.0	54.2	13.35	0.793	2.77	-2:26	7.3	51.9	0.722
17.08.	7:24	21.3	-0.7	1.268	35 W	-4.0	52.9	13.16	0.801	2.61	-2:22	7.9	56.8	0.722
20.08.	7:39	20.9	-0.5	1.287	34 W	-4.0	51.7	12.97	0.810	2.46	-2:18	8.5	61.6	0.722
23.08.	7:55	20.5	-0.3	1.305	33 W	-4.0	50.4	12.78	0.819	2.32	-2:14	9.0	66.4	0.721
26.08.	8:10	19.9	-0.2	1.323	33 W	-4.0	49.1	12.61	0.827	2.18	-2:10	9.5	71.2	0.721
29.08.	8:25	19.2	0.0	1.340	32 W	-4.0	47.9	12.45	0.835	2.05	-2:06	9.9	76.1	0.721



Datum	$\alpha$	$\delta$	b	$\Delta$ (AE)	E	mv	$\varphi$	$\emptyset$	k	q (")	$\Delta\alpha$ (h:m)	$\Delta\delta$ (°)	l	r
1.09.	8:40	18.5	0.1	1.357	31 W	-4.0	46.7	12.29	0.843	1.93	-2:02	10.2	80.9	0.720
4.09.	8:54	17.7	0.3	1.374	31 W	-4.0	45.4	12.14	0.851	1.81	-1:58	10.5	85.7	0.720
7.09.	9:09	16.8	0.4	1.390	30 W	-3.9	44.2	12.00	0.858	1.70	-1:54	10.8	90.6	0.720
10.09.	9:24	15.8	0.6	1.406	29 W	-3.9	43.0	11.86	0.866	1.59	-1:50	10.9	95.4	0.719
13.09.	9:38	14.8	0.7	1.421	28 W	-3.9	41.8	11.73	0.873	1.49	-1:46	11.0	100.3	0.719
16.09.	9:52	13.7	0.8	1.437	28 W	-3.9	40.5	11.61	0.880	1.39	-1:43	11.1	105.2	0.719
19.09.	10:07	12.6	0.9	1.451	27 W	-3.9	39.3	11.49	0.887	1.30	-1:39	11.1	110.0	0.719
22.09.	10:21	11.4	1.0	1.466	26 W	-3.9	38.1	11.38	0.893	1.22	-1:36	11.1	114.9	0.719
25.09.	10:35	10.1	1.1	1.479	26 W	-3.9	37.0	11.27	0.900	1.13	-1:33	11.0	119.7	0.719
28.09.	10:49	8.8	1.2	1.493	25 W	-3.9	35.8	11.17	0.906	1.05	-1:29	10.8	124.6	0.718
1.10.	11:03	7.5	1.3	1.506	24 W	-3.9	34.6	11.08	0.912	0.98	-1:26	10.7	129.5	0.718
4.10.	11:17	6.1	1.4	1.519	23 W	-3.9	33.4	10.98	0.917	0.91	-1:23	10.4	134.4	0.718
7.10.	11:30	4.7	1.4	1.531	23 W	-3.9	32.2	10.90	0.923	0.84	-1:21	10.2	139.2	0.718
10.10.	11:44	3.3	1.5	1.543	22 W	-3.9	31.1	10.81	0.928	0.78	-1:18	9.9	144.1	0.719
13.10.	11:58	1.8	1.5	1.554	21 W	-3.9	29.9	10.73	0.933	0.72	-1:15	9.6	149.0	0.719
16.10.	12:12	0.3	1.5	1.565	20 W	-3.9	28.8	10.66	0.938	0.66	-1:13	9.3	153.9	0.719
19.10.	12:25	-1.1	1.5	1.576	20 W	-3.9	27.6	10.59	0.943	0.60	-1:10	8.9	158.7	0.719
22.10.	12:39	-2.6	1.5	1.586	19 W	-3.9	26.5	10.52	0.947	0.55	-1:08	8.5	163.6	0.719
25.10.	12:53	-4.0	1.5	1.595	18 W	-3.9	25.4	10.46	0.952	0.50	-1:05	8.1	168.5	0.719
28.10.	13:07	-5.5	1.5	1.605	17 W	-3.9	24.3	10.39	0.956	0.46	-1:03	7.6	173.4	0.720
31.10.	13:21	-6.9	1.5	1.614	17 W	-3.9	23.2	10.34	0.960	0.42	-1:01	7.2	178.2	0.720
3.11.	13:35	-8.4	1.4	1.622	16 W	-3.9	22.0	10.28	0.963	0.38	-0:59	6.7	183.1	0.720
6.11.	13:49	-9.7	1.4	1.630	15 W	-3.9	21.0	10.23	0.967	0.34	-0:56	6.2	187.9	0.721
9.11.	14:03	-11.1	1.3	1.638	14 W	-3.9	19.9	10.18	0.970	0.30	-0:54	5.8	192.8	0.721
12.11.	14:17	-12.4	1.3	1.645	14 W	-3.9	18.8	10.14	0.973	0.27	-0:52	5.3	197.6	0.721
15.11.	14:32	-13.7	1.2	1.652	13 W	-3.9	17.7	10.10	0.976	0.24	-0:50	4.8	202.5	0.722
18.11.	14:47	-14.9	1.1	1.658	12 W	-3.9	16.6	10.06	0.979	0.21	-0:47	4.3	207.3	0.722
21.11.	15:01	-16.1	1.0	1.665	11 W	-3.9	15.6	10.02	0.982	0.18	-0:45	3.8	212.1	0.722
24.11.	15:16	-17.2	0.9	1.670	11 W	-3.9	14.5	9.99	0.984	0.16	-0:42	3.4	216.9	0.723
27.11.	15:32	-18.2	0.8	1.676	10 W	-3.9	13.5	9.95	0.986	0.14	-0:40	2.9	221.7	0.723
30.11.	15:47	-19.2	0.7	1.681	9 W	-3.9	12.5	9.93	0.988	0.12	-0:37	2.4	226.5	0.724
3.12.	16:03	-20.1	0.6	1.685	8 W	-3.9	11.4	9.90	0.990	0.10	-0:35	2.0	231.3	0.724
6.12.	16:18	-20.9	0.5	1.689	8 W	-3.9	10.4	9.87	0.992	0.08	-0:32	1.6	236.1	0.724
9.12.	16:34	-21.6	0.4	1.693	7 W	-3.9	9.4	9.85	0.993	0.07	-0:29	1.2	240.9	0.725
12.12.	16:50	-22.2	0.3	1.696	6 W	-3.9	8.4	9.83	0.995	0.05	-0:26	0.9	245.7	0.725
15.12.	17:07	-22.7	0.2	1.699	5 W	-3.9	7.4	9.81	0.996	0.04	-0:24	0.6	250.4	0.726
18.12.	17:23	-23.1	0.0	1.702	5 W	-3.9	6.4	9.80	0.997	0.03	-0:20	0.3	255.2	0.726
21.12.	17:39	-23.4	-0.1	1.704	4 W	-3.9	5.4	9.79	0.998	0.02	-0:17	0.0	260.0	0.726
24.12.	17:56	-23.6	-0.2	1.706	3 W	-3.9	4.4	9.77	0.999	0.01	-0:14	-0.2	264.7	0.727
27.12.	18:12	-23.7	-0.3	1.708	3 W	-3.9	3.5	9.77	0.999	0.01	-0:11	-0.4	269.5	0.727
30.12.	18:29	-23.7	-0.4	1.709	2 W	-3.9	2.5	9.76	1.000	0.00	-0:08	-0.5	274.2	0.727

Die Ephemeriden gelten für 0 Uhr Weltzeit.

Geozentrische Koordinaten:

$\alpha$  und  $\delta$ : Rektaszension und Deklination zum Äquinoktium des Datums. b: ekliptikale Breite;  $\Delta$ : Abstand von der Erde.  
E: Elongation (Winkel zwischen Planet und Sonnenmitte); mv: visuelle Helligkeit;  $\varphi$ : Phasenwinkel

Physische Ephemeriden (für Beobachtungen am Teleskop):

$\emptyset$ : scheinbarer Durchmesser;  
k: beleuchteter Teil; q: Phasendefekt (Beleuchtungsdefekt)

Koordinaten für Tagesbeobachtungen:

$\Delta\alpha$  und  $\Delta\delta$ : Rektaszensions- und Deklinationsdifferenzen (Venus minus Sonne)

Heliozentrische Koordinaten:

l: Länge zum Äquinoktium des Datums; r: Abstand von der Sonne.

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