

April 2016 (0^h UT)

Tag	α	δ	b_{geoz}	Δ	\varnothing	m_v	i	k	q	P	D_e	P_s	D_s	L_s	l	b	r
1	16:23	-20.7°	0.9°	0.790	11.8"	-0.3	31.4°	0.927	0.9"	35.2°	6.2°	98°	18.8°	130.6°	216.0°	0.4°	1.585
3	16:24	-20.8°	0.8°	0.774	12.1"	-0.4	30.7°	0.930	0.8"	35.1°	6.1°	98°	18.5°	131.6°	217.0°	0.4°	1.583
5	16:25	-20.9°	0.8°	0.757	12.4"	-0.5	30.1°	0.933	0.8"	35.1°	6.0°	98°	18.2°	132.5°	217.9°	0.4°	1.581
7	16:27	-21.0°	0.7°	0.741	12.6"	-0.5	29.4°	0.936	0.8"	35.0°	5.9°	98°	17.9°	133.5°	218.9°	0.3°	1.578
9	16:27	-21.0°	0.7°	0.726	12.9"	-0.6	28.6°	0.939	0.8"	34.9°	5.9°	98°	17.6°	134.5°	219.9°	0.3°	1.576
11	16:28	-21.1°	0.6°	0.710	13.2"	-0.6	27.8°	0.942	0.8"	34.9°	5.9°	98°	17.3°	135.4°	220.8°	0.3°	1.574
13	16:29	-21.2°	0.6°	0.695	13.5"	-0.7	27.0°	0.946	0.7"	34.9°	5.9°	98°	17.0°	136.4°	221.8°	0.3°	1.571
15	16:29	-21.3°	0.5°	0.681	13.7"	-0.8	26.1°	0.949	0.7"	34.8°	5.9°	98°	16.7°	137.4°	222.8°	0.2°	1.569
17	16:29	-21.3°	0.4°	0.667	14.0"	-0.8	25.1°	0.953	0.7"	34.8°	5.9°	98°	16.4°	138.4°	223.8°	0.2°	1.567
19	16:29	-21.4°	0.4°	0.653	14.3"	-0.9	24.1°	0.956	0.6"	34.8°	6.0°	98°	16.0°	139.4°	224.8°	0.2°	1.564
21	16:29	-21.5°	0.3°	0.640	14.6"	-1.0	23.1°	0.960	0.6"	34.9°	6.1°	98°	15.7°	140.4°	225.8°	0.1°	1.562
23	16:28	-21.5°	0.2°	0.627	14.9"	-1.0	22.0°	0.964	0.5"	34.9°	6.2°	98°	15.4°	141.4°	226.8°	0.1°	1.559
25	16:27	-21.6°	0.2°	0.615	15.2"	-1.1	20.8°	0.967	0.5"	35.0°	6.3°	98°	15.0°	142.4°	227.8°	0.1°	1.557
27	16:26	-21.6°	0.1°	0.604	15.5"	-1.1	19.6°	0.971	0.4"	35.0°	6.5°	98°	14.7°	143.4°	228.8°	0.0°	1.554
29	16:25	-21.7°	0.0°	0.592	15.8"	-1.2	18.3°	0.975	0.4"	35.1°	6.7°	99°	14.3°	144.4°	229.8°	0.0°	1.552

Mai 2016 (0^h UT)

Tag	α	δ	b_{geoz}	Δ	\varnothing	m_v	i	k	q	P	D_e	P_s	D_s	L_s	l	b	r
1	16:24	-21.7°	-0.1°	0.582	16.1"	-1.3	17.0°	0.978	0.4"	35.2°	6.9°	99°	13.9°	145.4°	230.8°	0.0°	1.549
3	16:22	-21.7°	-0.2°	0.572	16.4"	-1.3	15.6°	0.982	0.3"	35.3°	7.1°	99°	13.6°	146.4°	231.8°	-0.1°	1.547
5	16:20	-21.7°	-0.3°	0.563	16.6"	-1.4	14.2°	0.985	0.3"	35.5°	7.4°	100°	13.2°	147.4°	232.8°	-0.1°	1.544
7	16:18	-21.8°	-0.4°	0.554	16.9"	-1.5	12.7°	0.988	0.2"	35.6°	7.7°	100°	12.8°	148.4°	233.8°	-0.1°	1.542
9	16:16	-21.8°	-0.5°	0.546	17.1"	-1.5	11.2°	0.990	0.2"	35.7°	8.0°	101°	12.4°	149.4°	234.8°	-0.2°	1.539
11	16:14	-21.8°	-0.6°	0.539	17.4"	-1.6	9.6°	0.993	0.1"	35.9°	8.3°	102°	12.1°	150.5°	235.9°	-0.2°	1.537
13	16:11	-21.8°	-0.7°	0.532	17.6"	-1.6	8.0°	0.995	0.1"	36.1°	8.7°	103°	11.7°	151.5°	236.9°	-0.2°	1.534
15	16:09	-21.8°	-0.8°	0.526	17.8"	-1.7	6.4°	0.997	0.1"	36.2°	9.0°	105°	11.3°	152.5°	237.9°	-0.3°	1.531
17	16:06	-21.7°	-0.9°	0.521	18.0"	-1.7	4.7°	0.998	0.0"	36.4°	9.4°	107°	10.9°	153.6°	239.0°	-0.3°	1.529
19	16:03	-21.7°	-1.0°	0.516	18.1"	-1.8	3.1°	0.999	0.0"	36.6°	9.8°	113°	10.5°	154.6°	240.0°	-0.3°	1.526
21	16:00	-21.7°	-1.1°	0.512	18.3"	-1.8	1.5°	1.000	0.0"	36.8°	10.2°	130°	10.1°	155.6°	241.0°	-0.4°	1.524
23	15:57	-21.6°	-1.2°	0.509	18.4"	-1.8	0.9°	1.000	0.0"	36.9°	10.5°	221°	9.6°	156.7°	242.1°	-0.4°	1.521
25	15:54	-21.6°	-1.3°	0.507	18.5"	-1.8	2.4°	1.000	0.0"	37.1°	10.9°	260°	9.2°	157.7°	243.1°	-0.4°	1.518
27	15:51	-21.6°	-1.4°	0.505	18.5"	-1.8	4.1°	0.999	0.0"	37.3°	11.3°	269°	8.8°	158.8°	244.2°	-0.5°	1.516
29	15:48	-21.5°	-1.5°	0.504	18.6"	-1.8	5.8°	0.997	0.0"	37.4°	11.7°	-88°	8.4°	159.8°	245.2°	-0.5°	1.513
31	15:45	-21.4°	-1.6°	0.503	18.6"	-1.8	7.5°	0.996	0.1"	37.6°	12.1°	-86°	7.9°	160.9°	246.3°	-0.5°	1.511

Juni 2016 (0^h UT)

Tag	α	δ	b_{geoz}	Δ	\varnothing	m_v	i	k	q	P	D_e	P_s	D_s	L_s	l	b	r
1	15:43	-21.4°	-1.6°	0.504	18.6"	-1.8	8.4°	0.995	0.1"	37.6°	12.3°	-85°	7.7°	161.4°	246.8°	-0.5°	1.509
3	15:41	-21.4°	-1.7°	0.504	18.6"	-1.7	10.1°	0.992	0.1"	37.8°	12.6°	-84°	7.3°	162.5°	247.9°	-0.6°	1.507
5	15:38	-21.3°	-1.8°	0.506	18.5"	-1.7	11.8°	0.989	0.2"	37.9°	13.0°	-83°	6.9°	163.6°	249.0°	-0.6°	1.504
7	15:35	-21.2°	-1.9°	0.508	18.4"	-1.7	13.5°	0.986	0.3"	38.0°	13.3°	-82°	6.4°	164.6°	250.0°	-0.6°	1.501
9	15:33	-21.2°	-2.0°	0.510	18.3"	-1.7	15.1°	0.983	0.3"	38.1°	13.6°	-81°	6.0°	165.7°	251.1°	-0.7°	1.499
11	15:31	-21.1°	-2.1°	0.514	18.2"	-1.6	16.7°	0.979	0.4"	38.2°	13.9°	-81°	5.5°	166.8°	252.2°	-0.7°	1.496
13	15:29	-21.1°	-2.1°	0.517	18.1"	-1.6	18.3°	0.975	0.5"	38.3°	14.2°	-80°	5.1°	167.9°	253.3°	-0.7°	1.494
15	15:27	-21.1°	-2.2°	0.522	17.9"	-1.6	19.8°	0.971	0.5"	38.4°	14.4°	-80°	4.6°	169.0°	254.4°	-0.8°	1.491
17	15:25	-21.0°	-2.3°	0.527	17.8"	-1.5	21.2°	0.966	0.6"	38.4°	14.6°	-80°	4.2°	170.1°	255.4°	-0.8°	1.488
19	15:24	-21.0°	-2.3°	0.532	17.6"	-1.5	22.7°	0.961	0.7"	38.5°	14.8°	-79°	3.7°	171.2°	256.5°	-0.8°	1.486
21	15:22	-21.0°	-2.4°	0.538	17.4"	-1.4	24.0°	0.957	0.8"	38.5°	15.0°	-79°	3.2°	172.3°	257.6°	-0.9°	1.483
23	15:21	-21.0°	-2.4°	0.544	17.2"	-1.4	25.4°	0.952	0.8"	38.6°	15.1°	-79°	2.8°	173.4°	258.7°	-0.9°	1.481
25	15:21	-21.0°	-2.5°	0.551	17.0"	-1.4	26.6°	0.947	0.9"	38.6°	15.2°	-79°	2.3°	174.5°	259.8°	-0.9°	1.478
27	15:20	-21.0°	-2.5°	0.558	16.8"	-1.3	27.8°	0.942	1.0"	38.6°	15.3°	-78°	1.8°	175.6°	261.0°	-1.0°	1.476
29	15:20	-21.0°	-2.6°	0.565	16.6"	-1.3	29.0°	0.937	1.0"	38.6°	15.4°	-78°	1.3°	176.7°	262.1°	-1.0°	1.473

α δ $b_{\text{geoz.}}$... Rektaszension, Deklination
und geoz. ekliptikale Breite (Äquinotium des
Datums)

k ... beleuchteter Teil

P_s ... Positionswinkel des Sonnenlichtes

D_s ... Deklination der Sonne

Mit L_s wird der Beginn der Jahreszeiten bezogen auf die Nordhalbkugel definiert:

0° = Frühlingsanfang, 90° = Sommersanfang, 180° = Herbstanfang und 270° = Wintersanfang.

l, b und r ... heliozentrische Koordinaten

Δ ... Abstand von der Erde

\emptyset ... scheinbarer Durchmesser

D_e ... Deklination der Erde

L_s ... Länge der Sonne in der Bahnebene,
vom aufsteigenden Knoten der Bahnebene im
Äquator gemessen

m_v ... visuelle Helligkeit

q ... Breite des unbeleuchteten Teils

P ... Positionswinkel der Rotationsachse

i ... Phasenwinkel