

JPL Horizons - GHA Aries for Day of Year

Day	GHA	Day	GHA	Day	GHA	Day	GHA
0	0.0	92	90°40'34.8"	184	181°21'9.6"	276	272°1'44.4"
1	59°8.2'	93	91°39'43.0"	185	182°20'17.8"	277	273°0'52.6"
2	1°58'16.4"	94	92°38'51.2"	186	183°19'26.0"	278	274°0'0.8"
3	2°57'24.6"	95	93°37'59.4"	187	184°18'34.2"	279	274°59'9.0"
4	3°56'32.8"	96	94°37'7.6"	188	185°17'42.4"	280	275°58'17.2"
5	4°55'41.0"	97	95°36'15.8"	189	186°16'50.6"	281	276°57'25.4"
6	5°54'49.2"	98	96°35'24.0"	190	187°15'58.8"	282	277°56'33.6"
7	6°53'57.4"	99	97°34'32.2"	191	188°15'7.0"	283	278°55'41.8"
8	7°53'5.6"	100	98°33'40.4"	192	189°14'15.2"	284	279°54'50.0"
9	8°52'13.8"	101	99°32'48.6"	193	190°13'23.4"	285	280°53'58.2"
10	9°51'22.0"	102	100°31'56.8"	194	191°12'31.6"	286	281°53'6.4"
11	10°50'30.2"	103	101°31'5.0"	195	192°11'39.8"	287	282°52'14.6"
12	11°49'38.5"	104	102°30'13.2"	196	193°10'48.0"	288	283°51'22.8"
13	12°48'46.7"	105	103°29'21.4"	197	194°9'56.2"	289	284°50'31.0"
14	13°47'54.9"	106	104°28'29.6"	198	195°9'4.4"	290	285°49'39.2"
15	14°47'3.1"	107	105°27'37.9"	199	196°8'12.6"	291	286°48'47.4"
16	15°46'11.3"	108	106°26'46.1"	200	197°7'20.8"	292	287°47'55.6"
17	16°45'19.5"	109	107°25'54.3"	201	198°6'29.1"	293	288°47'3.8"
18	17°44'27.7"	110	108°25'2.5"	202	199°5'37.3"	294	289°46'12.0"
19	18°43'35.9"	111	109°24'10.7"	203	200°4'45.5"	295	290°45'20.2"
20	19°42'44.1"	112	110°23'18.9"	204	201°3'53.7"	296	291°44'28.5"
21	20°41'52.3"	113	111°22'27.1"	205	202°3'1.9"	297	292°43'36.7"
22	21°41'0.5"	114	112°21'35.3"	206	203°2'10.1"	298	293°42'44.9"
23	22°40'8.7"	115	113°20'43.5"	207	204°1'18.3"	299	294°41'53.1"
24	23°39'16.9"	116	114°19'51.7"	208	205°0'26.5"	300	295°41'1.3"
25	24°38'25.1"	117	115°18'59.9"	209	205°59'34.7"	301	296°40'9.5"
26	25°37'33.3"	118	116°18'8.1"	210	206°58'42.9"	302	297°39'17.7"
27	26°36'41.5"	119	117°17'16.3"	211	207°57'51.1"	303	298°38'25.9"
28	27°35'49.7"	120	118°16'24.5"	212	208°56'59.3"	304	299°37'34.1"
29	28°34'57.9"	121	119°15'32.7"	213	209°56'7.5"	305	300°36'42.3"
30	29°34'6.1"	122	120°14'40.9"	214	210°55'15.7"	306	301°35'50.5"
31	30°33'14.3"	123	121°13'49.1"	215	211°54'23.9"	307	302°34'58.7"
32	31°32'22.5"	124	122°12'57.3"	216	212°53'32.1"	308	303°34'6.9"
33	32°31'30.7"	125	123°12'5.5"	217	213°52'40.3"	309	304°33'15.1"
34	33°30'38.9"	126	124°11'13.7"	218	214°51'48.5"	310	305°32'23.3"
35	34°29'47.1"	127	125°10'21.9"	219	215°50'56.7"	311	306°31'31.5"
36	35°28'55.4"	128	126°9'30.1"	220	216°50'4.9"	312	307°30'39.7"
37	36°28'3.6"	129	127°8'38.3"	221	217°49'13.1"	313	308°29'47.9"
38	37°27'11.8"	130	128°7'46.6"	222	218°48'21.3"	314	309°28'56.1"
39	38°26'20.0"	131	129°6'54.8"	223	219°47'29.5"	315	310°28'4.3"
40	39°25'28.2"	132	130°6'3.0"	224	220°46'37.7"	316	311°27'12.5"
41	40°24'36.4"	133	131°5'11.2"	225	221°45'46.0"	317	312°26'20.7"
42	41°23'44.6"	134	132°4'19.4"	226	222°44'54.2"	318	313°25'28.9"
43	42°22'52.8"	135	133°3'27.6"	227	223°44'2.4"	319	314°24'37.2"
44	43°22'1.0"	136	134°2'35.8"	228	224°43'10.6"	320	315°23'45.4"
45	44°21'9.2"	137	135°1'44.0"	229	225°42'18.8"	321	316°22'53.6"
46	45°20'17.4"	138	136°0'52.2"	230	226°41'27.0"	322	317°22'1.8"
47	46°19'25.6"	139	137°0'0.4"	231	227°40'35.2"	323	318°21'10.0"
48	47°18'33.8"	140	137°59'8.6"	232	228°39'43.4"	324	319°20'18.2"
49	48°17'42.0"	141	138°58'16.8"	233	229°38'51.6"	325	320°19'26.4"
50	49°16'50.2"	142	139°57'25.0"	234	230°37'59.8"	326	321°18'34.6"
51	50°15'58.4"	143	140°56'33.2"	235	231°37'8.0"	327	322°17'42.8"
52	51°15'6.6"	144	141°55'41.4"	236	232°36'16.2"	328	323°16'51.0"
53	52°14'14.8"	145	142°54'49.6"	237	233°35'24.4"	329	324°15'59.2"
54	53°13'23.0"	146	143°53'57.8"	238	234°34'32.6"	330	325°15'7.4"
55	54°12'31.2"	147	144°53'6.0"	239	235°33'40.8"	331	326°14'15.6"
56	55°11'39.4"	148	145°52'14.2"	240	236°32'49.0"	332	327°13'23.8"
57	56°10'47.6"	149	146°51'22.4"	241	237°31'57.2"	333	328°12'32.0"
58	57°9'55.8"	150	147°50'30.6"	242	238°31'5.4"	334	329°11'40.2"
59	58°9'4.0"	151	148°49'38.8"	243	239°30'13.6"	335	330°10'48.4"
60	59°8'12.3"	152	149°48'47.0"	244	240°29'21.8"	336	331°9'56.6"
61	60°7'20.5"	153	150°47'55.2"	245	241°28'30.0"	337	332°9'4.8"
62	61°6'28.7"	154	151°47'3.5"	246	242°27'38.2"	338	333°8'13.0"
63	62°5'36.9"	155	152°46'11.7"	247	243°26'46.4"	339	334°7'21.2"
64	63°4'45.1"	156	153°45'19.9"	248	244°25'54.7"	340	335°6'29.4"
65	64°3'53.3"	157	154°44'28.1"	249	245°25'2.9"	341	336°5'37.6"
66	65°3'1.5"	158	155°43'36.3"	250	246°24'11.1"	342	337°4'45.8"
67	66°2'9.7"	159	156°42'44.5"	251	247°23'19.3"	343	338°3'54.1"
68	67°1'17.9"	160	157°41'52.7"	252	248°22'27.5"	344	339°3'2.3"
69	68°0'26.1"	161	158°41'0.9"	253	249°21'35.7"	345	340°2'10.5"
70	68°59'34.3"	162	159°40'9.1"	254	250°20'43.9"	346	341°1'18.7"
71	69°58'42.5"	163	160°39'17.3"	255	251°19'52.1"	347	342°0'26.9"
72	70°57'50.7"	164	161°38'25.5"	256	252°19'0.3"	348	342°59'35.1"
73	71°56'58.9"	165	162°37'33.7"	257	253°18'8.5"	349	343°58'43.3"
74	72°56'7.1"	166	163°36'41.9"	258	254°17'16.7"	350	344°57'51.5"
75	73°55'15.3"	167	164°35'50.1"	259	255°16'24.9"	351	345°56'59.7"
76	74°54'23.5"	168	165°34'58.3"	260	256°15'33.1"	352	346°56'7.9"
77	75°53'31.7"	169	166°34'6.5"	261	257°14'41.3"	353	347°55'16.1"
78	76°52'39.9"	170	167°33'14.7"	262	258°13'49.5"	354	348°54'24.3"
79	77°51'48.1"	171	168°32'22.9"	263	259°12'57.7"	355	349°53'32.5"
80	78°50'56.3"	172	169°31'31.1"	264	260°12'5.9"	356	350°52'40.7"
81	79°50'4.5"	173	170°30'39.3"	265	261°11'14.1"	357	351°51'48.9"
82	80°49'12.7"	174	171°29'47.5"	266	262°10'22.3"	358	352°50'57.1"
83	81°48'21.0"	175	172°28'55.7"	267	263°9'30.5"	359	353°50'5.3"
84	82°47'29.2"	176	173°28'3.9"	268	264°8'38.7"	360	354°49'13.5"
85	83°46'37.4"	177	174°27'12.2"	269	265°7'46.9"	361	355°48'21.7"
86	84°45'45.6"	178	175°26'20.4"	270	266°6'55.1"	362	356°47'29.9"
87	85°44'53.8"	179	176°25'28.6"	271	267°6'3.3"	363	357°46'38.1"
88	86°44'2.0"	180	177°24'36.8"	272	268°5'11.6"	364	358°45'46.3"
89	87°43'10.2"	181	178°23'45.0"	273	269°4'19.8"	365	359°44'54.5"
90	88°42'18.4"	182	179°22'53.2"	274	270°3'28.0"	366	44'2.8"
91	89°41'26.6"	183	180°22'1.4"	275	271°2'36.2"	-----	-----

Increments for Time of Day			
Nr.	Hours	Minutes	Seconds
0	0.0	0.0	0.0
1	15°2'27.8"	15'2.5"	15.04"
2	30°4'55.7"	30'4.9"	30.08"
3	45°7'23.5"	45'7.4"	45.12"
4	60°9'51.4"	1°0'9.9"	1'0.16"
5	75°12'19.2"	1°15'12.3"	1'15.21"
6	90°14'47.1"	1°30'14.8"	1'30.25"
7	105°17'14.9"	1°45'17.2"	1'45.29"
8	120°19'42.7"	2°0'19.7"	2'0.33"
9	135°22'10.6"	2°15'22.2"	2'15.37"
10	150°24'38.4"	2°30'24.6"	2'30.41"
11	165°27'6.3"	2°45'27.1"	2'45.45"
12	180°29'34.1"	3°0'29.6"	3'0.49"
13	195°32'1.9"	3°15'32.0"	3'15.53"
14	210°34'29.8"	3°30'34.5"	3'30.57"
15	225°36'57.6"	3°45'37.0"	3'45.62"
16	240°39'25.5"	4°0'39.4"	4'0.66"
17	255°41'53.3"	4°15'41.9"	4'15.70"
18	270°44'21.2"	4°30'44.4"	4'30.74"
19	285°46'49.0"	4°45'46.8"	4'45.78"
20	300°49'16.8"	5°0'49.3"	5'0.82"
21	315°51'44.7"	5°15'51.7"	5'15.86"
22	330°54'12.5"	5°30'54.2"	5'30.90"
23	345°56'40.4"	5°45'56.7"	5'45.95"
24	59'8.2"	6°0'59.1"	6'0.99"
25	-----	6°16'1.6"	6'16.03"
26	-----	6°31'4.1"	6'31.07"
27	-----	6°46'6.5"	6'46.11"
28	-----	7°1'9.0"	7'1.15"
29	-----	7°16'11.5"	7'16.19"
30	-----	7°31'13.9"	7'31.23"
31	-----	7°46'16.4"	7'46.27"
32	-----	8°1'18.8"	8'1.31"
33	-----	8°16'21.3"	8'16.36"
34	-----	8°31'23.8"	8'31.40"
35	-----	8°46'26.2"	8'46.44"
36	-----	9°1'28.7"	9'1.48"
37	-----	9°16'31.2"	9'16.52"
38	-----	9°31'33.6"	9'31.56"
39	-----	9°46'36.1"	9'46.60"
40	-----	10°1'38.6"	10'1.64"
41	-----	10°16'41.0"	10'16.68"
42	-----	10°31'43.5"	10'31.73"
43	-----	10°46'46.0"	10'46.77"
44	-----	11°1'48.4"	11'1.81"
45	-----	11°16'50.9"	11'16.85"
46	-----	11°31'53.3"	11'31.89"
47	-----	11°46'55.8"	11'46.93"
48	-----	12°1'58.3"	12'1.97"
49	-----	12°17'0.7"	12'17.01"
50	-----	12°32'3.2"	12'32.05"
51	-----	12°47'5.7"	12'47.09"
52	-----	13°2'8.1"	13'2.13"
53	-----	13°17'10.6"	13'17.18"
54	-----	13°32'13.1"	13'32.22"
55	-----	13°47'15.5"	13'47.26"
56	-----	14°2'18.0"	14'2.30"
57	-----	14°17'20.4"	14'17.34"
58	-----	14°32'22.9"	14'32.38"
59	-----	14°47'25.4"	14'47.42"
60	-----	15°2'27.8"	15'2.46"

Day of Year / Month					
Mon	Mi	Mon	Mi	Mon	Mi
Jan	-1	May	119/120	Sep	242/243
Feb	30	Jun	150/151	Oct	272/273
Mar	58/59	Jul	180/181	Nov	303/303
Apr	89/90	Aug	211/212	Dec	33