

PUBLICATIONS
OF THE
UNITED STATES
NAVAL OBSERVATORY

SECOND SERIES

A CATALOG OF
VISUAL BINARY ORBITS

VOLUME XVIII

Part III

By CHARLES E. WORLEY



U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON : 1963

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$$\begin{aligned} A &= a_1 \cos i_1 + a_2 \cos i_2 + a_3 \cos i_3 + a_4 \cos i_4 \\ B &= a_1 \sin i_1 + a_2 \sin i_2 + a_3 \sin i_3 + a_4 \sin i_4 \\ C &= a_1 \cos i_1 + a_2 \cos i_2 + a_3 \cos i_3 + a_4 \cos i_4 \\ G &= a_1 \sin i_1 + a_2 \sin i_2 + a_3 \sin i_3 + a_4 \sin i_4 \end{aligned}$$

CATALOG OF VISUAL BINARY ORBITS

No.	ADS DM	Name	R. A. Dec. h m	Mag. A B	Sp. A B	P T	a e	i Ω	ω ephem
1*	48 +45° 4408	0Σ 547	0 00.4 +45° 16'	8.94 9.04	dK6 dM0	362.30 2072.30 327.30 1732.64	6.179 .520 5.708 .520	62.30 19.07 59.92 17.13	276.58 56-70 280.00 -
2	61 +57° 2865	Σ 3062	0 01.0 +57 53	6.5 7.3	dG4 dG8	106.83 1943.05	1.432 .450	44.40 39.10	98.80 58-72
3	102 +78° 1	Σ 2	0 03.8 +79 10	6.8 7.1	A3	300.00 1888.20 419.00 1888.60 310.34 1889.60	.686 .575 .880 .670 .698 .586	113.20 169.90 112.10 171.50 113.86 166.04	330.10 54-64 332.60 50-70 329.57 50-70
4	148 +52° 19	β 1026	0 06.9 +53 04	7.2 8.0	F0	72.00 1919.18	.215 .770	25.10 17.50	122.40 50-85
5*	161 +26° 13	0Σ 2	0 08.2 +26 25	6.7 7.5	F5	693.50 1963.77	1.018 .836	119.08 2.42	86.50 50-70
6	207 +76° 5	Σ 13	0 10.6 +76 24	6.9 7.1	B9	1600.00 1830.00 720.00 1710.00	1.260 .500 .922 .500	135.70 81.00 127.47 6.78	304.00 55-80 133.96 52-80
7	221 +35° 34	0Σ 4	0 11.5 +35 55	8.2 8.9	dF7	112.50 1908.10	.400 .560	153.90 118.70	106.30 50-70
8*	246 +43° 44	Grmb 34	0 12.7 +43 27	8.07 11.04	M1V M6V	3020.00 2318.00	43.94 0.250	57.39 55.99	75.78 50-200J
9	283 +66° 19	h 1018	0 15.4 +67 07	8.6 9.1	G5	163.40 1943.00	1.240 .960	88.50 84.90	230.40 50-70
10	281 +11° 41	β 1015	0 15.5 +11 47	8.7 8.9	F5	254.40 1957.40	.490 .650	33.70 27.60	243.00 58-68
11*	293 +66° 20	0Σ 6	0 15.8 +66 27	7.4 8.4	A0	200.00 1923.00 240.00 1927.00	.444 .800 .460 .800	108.00 147.40 103.00 147.30	0.00 - 184.30 50-70
12	363 - 8° 65	A 431	0 22.1 -08 26	8.7 9.5	G5	54.00 1951.00 53.38 1949.92	.365 .650 .360 .650	111.20 21.60 110.00 26.60	293.40 50-70 295.20 54.70
13	-21° 57	B 1909	0 23.3 -20 53	7.2 7.2	G0	5.62 1937.95 11.25 1940.88	.134 .600 .214 .000	59.70 119.00 69.80 119.00	174.70 1 rev. 0.00 -
14*	-63° 50	β ² Tuc	0 27.0 -63 31	4.9 5.6	A2 IV-V	43.07 1920.66	.411 .770	131.20 65.60	293.80 50-70M
15*	450 - 5° 77	A 111	0 27.0 -05 44	9.2 9.3	dG8	10.79 1940.52	.143 .550	155.00 19.00	268.00 50-61M
16*	490 - 4° 62	Ho 212 13 Cet	0 30.1 -04 09	5.6 6.3	F8V	6.91 1925.94	.244 .730	52.00 24.00	73.00 1 rev. M
17	520 -25° 225	β 395	0 32.2 -25 19	6.3 6.4	G5V	25.00 1924.00	.670 .220	78.00 112.00	142.00 50-70M

No.	A B	F G	Wt. equinox	Computer and Reference
1	1.60098 - 2.46542 1.77633 - 2.40078	5.69395 2.31589 5.22567 2.12965	5 - - -	Güntzel-Lingner 1955 Astron. Nachr. <u>282</u> , 183. Brosche 1954 Circ. d'Inform. No. 7.
2	- .80765 .64640	- .99939 - 1.01400	1	Baize 1957 J. Obs. <u>40</u> , 197.
3	- .60910 - .02826 - .79517 - .03520 - .61857 .00635	- .29560 .29059 - .35702 .35050 - .28444 .32157	2 2 2 2 2	Heintz 1955 Monthly Notices Roy. Astron. Soc. <u>114</u> , 600. Van Biesbroeck 1954 Publ. Yerkes Obs. <u>8</u> , Pt. 6. Pensado 1954 Urania <u>39</u> , 87.
4	- .15929 .12214	- .14175 - .15409	3	Baize 1955 J. Obs. <u>38</u> , 38.
5	.08287 - .49068	- 1.01383 - .07299	5 1900	Arend 1954 Bull. Astron. d'Bel. <u>4</u> , 222.
6	- .62811 .81283 - .58787 - .47649	.66150 .95281 - .70505 .30822	5 2000 5	Heintz 1960 Astron. Nachr. <u>285</u> , 255. Rabe 1961 Veröff. Sternwarte München <u>6</u> , Nr. 4.
7	.35628 - .06708	.09592 - .38516	2	Muller 1963 Bull. Astronomie <u>24</u> , 2.
8	-12.993 +21.791	-28.651 -32.053	.5	Hopmann 1957 Mitt. Wien Sternwarte <u>9</u> , 153.
9	- .04538 - .78951	.10552 .94972	3	Muller 1957 J. Obs. <u>40</u> , 48.
10	- .02886 - .42493	.47265 .03827	5	Baize 1958 J. Obs. <u>41</u> , 175.
11	- .37407 .23923 .38180 - .25433	.07393 .11557 - .08478 - .06822	4 4 4	Van Biesbroeck 1954 Pub. Yerkes Obs. <u>8</u> , pt. 6. Muller 1954 J. Obs. <u>37</u> , 61.
12	.09019 .16600 .08719 .16826	.33080 .07457 .31475 .09900	3 3 3	Muller 1954 J. Obs. <u>37</u> , 62. Baize 1953 J. Obs. <u>36</u> , 159.
13	.05921 - .11972 - .10375 .18716	.06487 .02180 - .06463 - .03582	5 5	van den Bos 1956 Union Obs. Circ. 115, 279. van den Bos 1956 Union Obs. Circ. 115, 279.
14	- .15708 .25338	.25486 .29736	3	Hirst 1945 Monthly Notices Roy. Astron. Soc. <u>105</u> , 36.
15	- .04689 .12084	.13365 .05081	3	Finsen 1938 Union Obs. Circ. 99, 445.
16	.00676 - .16026	- .23102 - .05475	2	Luyten 1933 Astrophys. J. <u>78</u> , 225.
17	.11826 - .52160	.25628 - .34137	1	van den Bos 1937 Union Obs. Circ. 98, 342.