

INTERNATIONAL ASTRONOMICAL UNION
 COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)
 DOUBLE STARS INFORMATION CIRCULAR No. 204 (JUNE 2021)

NEW ORBITS

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω (°) σ_Ω	ω (°) σ_ω	2021 2022	Author(s) Last obs.
00593-0040 4619	A 1902 819	93.61 1.24	2057.69 0.60	0.805 0.006	0.310 0.003	49.8 1.5	118.1 4.0	271.5 4.0	221.5 0.355 222.6 0.354	D & L 2019.5397
02418-5300 –	TOK 690 Aa,Ab –	2.25 0.16	2018.76 0.17	0.83 fixed	0.044 0.008	76.5 4.5	109.9 4.4	118.5 7.4	237.0 0.002 83.4 0.038	TOK 2020.924
03019-1633 14101	RST 2292 BC –	53.56 0.97	1999.71 0.24	0.000 fixed	1.495 0.021	89.8 0.1	137.5 0.1	0.0 fixed	317.3 1.195 317.4 1.292	TOK 2020.834
04188-3407 20116	I 724 –	180.0 ...	1978.86 ...	0.79 ...	0.408 ...	93.7 ...	203.9 ...	121.6 ...	223.3 0.110 222.3 0.117	TOK 2021.162
04293-3124 –	SIG 4 –	54.13 ...	1978.22 ...	0.056 ...	0.501 ...	180.0 ...	105.1 ...	0.0 ...	186.9 0.496 180.0 0.493	TOK 2020.824
04404+1631 27162	CHR 154 –	68.2 4.9	2007.61 0.42	0.16 0.05	0.469 0.009	64.5 1.1	179.2 0.6	266.2 3.4	177.0 0.454 179.3 0.463	TOK 2020.927
04590-1623 23166	BU 314 AB 3588	61.45 2.55	1977.24 0.51	0.774 0.050	0.483 0.010	108.2 2.0	140.7 3.0	357.3 8.0	316.2 0.727 315.7 0.705	D & L 2019.9524
05017+2640 23395	A 1844 3608	25.323 0.028	2000.756 0.025	0.301 0.002	0.262 0.001	14.4 1.2	221.8 4.7	340.6 4.9	102.9 0.244 119.6 0.222	MAS 2018.9708
05164-0139 24580	A 844 3857	253 31	1978.61 2.1	0.334 0.06	0.240 0.021	25.8 5.3	170.9 16.1	312.1 15.4	219.4 0.212 220.9 0.213	TOK 2021.159
05272+1758 25499	MCA 19 4038	15.924 0.080	2014.61 0.18	0.808 0.092	0.076 0.004	109.7 8.2	251.8 1.9	317.2 6.1	96.6 0.082 93.2 0.093	J & M 2020.9272
05278-2848 25559	LSC 37 Aa,Ab –	120.0 ...	2016.6 ...	0.612 ...	0.739 ...	60.8 ...	59.8 ...	50.0 ...	186.0 0.200 198.8 0.246	TOK 2020.837

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr)	T(yr)	e	a(")	i(°)	Ω(°)	ω(°)	2021	Author(s)	
		σ_P	σ_T	σ_e	σ_a	σ_i	σ_Ω	σ_ω	2022	Last obs.	
06035+1941 28691	MCA 24	13.061 0.031	2019.58 0.16	0.808 0.046	0.056 0.002	111.8 7.9	224.4 3.3	291.5 9.3	174.8 145.5	0.024 0.027	MAS 2019.0489
06111-1348 29330	LSC 40 Aa,Ab –	2.527 0.008	2020.023 0.044	0.139 0.022	0.051 0.002	21.1 9.4	137.7 31.2	184.6 33.8	112.3 228.1	0.056 0.047	TOK 2021.159
06203-3004 30122	1 CMa –	1.85 0.22	2018.98 0.28	0.30 0.12	0.032 0.004	51.1 9.6	62.0 14.7	215.9 26.4	341.9 114.6	0.016 0.028	TOK 2021.316
06290+2013 30883	BTZ 1 5103	19.108 0.011	2011.35 0.12	0.238 0.003	0.082 0.001	74.5 0.3	300.9 0.4	42.0 2.6	135.0 142.0	0.077 0.062	MAS 2019.8600
07192+2058 35459	HDS 1019 –	200.0 ...	2019.42 ...	0.979 ...	0.587 ...	85.1 ...	163.9 ...	179.1 ...	160.2 161.0	0.093 0.142	TOK 2021.160
07478-0332 38039	RST 4375 –	114.5 7.2	1999.78 0.66	0.777 0.021	0.247 0.011	110.9 1.9	289.4 1.1	68.7 1.6	92.6 91.9	0.247 0.249	TOK 2021.315
07549-2920 –	KUI 32 –	30.71 0.36	1998.80 0.29	0.774 0.017	1.063 0.033	119.8 1.3	117.1 2.2	260.2 0.7	11.2 4.9	0.829 0.805	TOK 2020.837
07549-2920	KUI 32	30.48 0.19	1998.53 0.55	0.78 0.13	1.054 0.078	120. 15.	120.0 3.7	261.0 8.6	11.3 5.1	0.828 0.802	MAS 2020.8374
07560+2342 38755	COU 929	45.07 0.18	1997.98 0.21	0.475 0.003	0.256 0.001	71.9 0.2	186.7 0.2	70.7 0.7	50.8 56.9	0.160 0.147	MAS 2020.9960
08122+1739 40167	STF 1196 6650	59.80 0.035	1989.92 0.008	0.320 0.000	0.866 0.001	170.9 0.3	189.8 2.0	0.8 2.0	2.0 358.7	1.138 1.133	J & M 2020.257
08128-6359 –	RST 310 –	137.6 ...	1998.64 ...	0.264 ...	0.181 ...	150.7 ...	81.8 ...	103.5 ...	251.5 249.0	0.167 0.168	TOK 2021.160
08277-0425 41489	A 550 6825	21.088 0.110	2023.531 0.205	0.857 0.009	0.099 0.003	149.5 1.0	58.0 5.0	69.7 5.0	136.9 124.3	0.089 0.066	D et al. 2021.1597
08315-1935 41817	I 489 –	177.501 16.519	2034.691 3.353	0.284 0.030	0.479 0.016	113.4 1.3	97.7 1.3	223.1 12.7	280.1 278.8	0.370 0.367	TOK 2021.318
08331-2436 41949	BU 205 AB 6871	140.56 2.45	1953.67 1.25	0.269 0.015	0.526 0.003	145.3 3.0	172.8 5.0	83.0 5.0	276.7 274.9	0.553 0.552	D et al. 2018.2493

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω(°) σ_Ω	ω(°) σ_ω	2021 2022	Author(s) Last obs.
08391-2240 42430	BU 208 AB 6914	127.34 0.39	1986.20 0.13	0.298 0.004	1.665 0.006	83.6 0.1	31.3 0.1	305.0 0.6	52.4 0.553 55.4 0.498	TOK 2021.316
08420-0109 –	A 1750 AB 6936	250.0 ...	1987.40 ...	0.162 ...	0.205 ...	79.7 ...	219.9 ...	127.3 ...	42.0 0.183 42.4 0.182	TOK 2021.160
09123+1500 45170	FIN 347	2.7055 0.0002	1979.9819 0.0026	0.440 0.001	0.113 0.000	123.8 0.3	318.0 0.3	352.2 0.6	207.7 0.062 139.8 0.163	MAS (1) 2021.3182
09150-3736 45386	HDS 1337 –	43.7 ...	2013.76 ...	0.426 ...	0.108 ...	107.8 ...	175.6 ...	216.3 ...	187.2 0.088 184.2 0.100	TOK 2020.996
09156-1036	MTG 2	5.0936 0.0092	2014.122 0.038	0.459 0.013	0.198 0.003	116.6 1.7	114.1 1.3	272.6 3.4	64.7 0.149 3.5 0.136	MAS 2021.3184
09243-3926 46114	FIN 348 –	41.70 1.02	1983.30 0.76	0.454 0.030	0.123 0.003	159.4 7.1	97.0 10.2	341.9 11.6	197.8 0.086 181.4 0.078	TOK 2021.316
09307-4028 46651	COP 1	34.12 0.13	2004.07 0.04	0.439 0.003	0.810 0.002	58.4 0.2	288.2 0.1	47.7 0.6	137.7 0.911 141.8 0.865	MAS 2021.2450
09320-0111 46776	CHR 174 –	6.021 0.030	2015.055 0.026	0.466 0.012	0.032 0.001	170.2 11.7	162.0 71.8	123.7 71.5	52.1 0.017 288.6 0.030	TOK 2021.318
09439-5738 47736	HDS 1404 Aa,Ab –	22.24 1.16	2019.578 0.023	0.694 0.012	0.115 0.006	44.0 2.1	160.9 3.8	347.8 2.9	251.6 0.050 280.9 0.075	TOK 2021.318
09466-4955 47969	HDS 1414 –	158.0 15.2	2019.01 0.19	0.84 fixed	0.242 0.010	66.0 1.5	283.5 2.9	228.2 2.4	249.2 0.035 263.8 0.057	TOK 2020.996
09474+1134 48029	MCA 34	15.199 0.018	2019.163 0.094	0.313 0.006	0.111 0.001	76.3 0.5	203.1 0.5	22.6 2.7	325.6 0.026 5.1 0.067	J & M 2021.1598
10041+1848 49324	HIP 49324 –	7.53 0.19	2020.829 0.019	0.613 0.009	0.097 0.002	130.7 1.7	162.6 2.4	23.3 2.9	109.8 0.030 1.8 0.092	TOK 2021.318
10283-2416 51263	TOK 537 Aa,Ab –	40.0 ...	2021.66 ...	0.61 ...	0.342 ...	50.5 ...	174.1 ...	326.1 ...	122.0 0.101 162.4 0.132	TOK 2021.158

(1) $K1 = 11.498 \pm 0.134$ km/s, $K2 = 12.769 \pm 0.133$ km/s, $V0 = 49.979 \pm 0.155$ km/s
 $M1 = 0.972 \pm 0.029 M_{sun}$, $M2 = 0.875 \pm 0.029 M_{sun}$, $Par = 47.56 \pm 1.43$ mas

NEW ORBITS (continuation)

WDS	Name	P(yr)	T(yr)	e	a(")	i(°)	Ω(°)	ω(°)	2021	Author(s)	
HIP	ADS	σ_P	σ_T	σ_e	σ_a	σ_i	σ_Ω	σ_ω	2022	Last obs.	
10530+0458	TOK 438	6.193	2015.757	0.950	0.047	100.6	195.1	186.3	191.4	0.057	TOK
53212	–	0.049	0.117	fixed	0.002	3.2	3.6	19.9	209.4	0.005	2021.318
10553-3530	I 1206 AB	400.0	2273.5	0.40	0.325	110.4	11.8	121.3	78.7	0.162	TOK
53399	–	...	...	...	...	...	...	...	77.6	0.164	2021.163
10596+1800	HDS 1568	7.816	2019.639	0.890	0.124	141.1	154.1	63.2	297.0	0.146	TOK
53731	–	0.015	0.033	0.009	0.005	3.6	6.7	5.8	287.8	0.181	2021.163
11009-4030	FIN 365	13.458	2021.887	0.561	0.115	105.8	114.5	217.6	308.0	0.055	TOK
53840	–	0.085	0.102	0.012	0.002	0.8	0.6	2.3	276.2	0.034	2021.163
11053-2718	FIN 47	7.6093	2021.477	0.345	0.136	94.6	224.9	341.3	234.7	0.041	J & M
54204		0.0022	0.038	0.006	0.001	0.3	0.2	1.8	222.1	0.084	2021.1626
11279-0142	RST 4944	120.5	2025.58	0.64	0.215	134.8	174.4	51.7	185.0	0.100	TOK
55941	–	18.9	0.42	0.05	0.012	6.5	5.6	6.2	177.0	0.093	2021.319
11471-1149	RST 3756 AB	121.3	1955.7	0.176	0.982	152.3	151.4	178.7	143.7	1.148	TOK
57494	–	2.8	2.8	0.011	0.013	2.2	7.4	16.6	141.8	1.144	2021.316
12104-4352	HD 105750	12.26	2017.92	0.593	0.062	52.1	89.2	98.4	323.0	0.056	TOK
59341	–	1.24	0.06	0.037	0.003	3.0	3.9	4.1	340.4	0.058	2021.160
12165-5009	RST 583	220.0	1922.51	0.632	0.406	70.1	353.3	112.3	304.9	0.286	TOK
59854	–	...	...	...	...	...	...	...	305.8	0.290	2021.245
12250-0414	TOK 400	27.9	2018.65	0.656	0.238	129.5	98.3	173.8	170.2	0.111	TOK
60574	–	6.4	0.05	0.054	0.035	2.4	3.5	2.8	149.6	0.154	2021.158
12386-2704	BWL 32	17.0	2020.130	0.322	0.222	137.4	190.2	81.1	64.6	0.127	TOK
–	–	...	...	...	...	...	...	...	31.0	0.172	2021.245
12428-5557	KOU 15	40.0	2025.42	0.228	0.200	113.3	5.8	188.9	212.4	0.118	TOK
62026	–	...	...	...	...	...	...	...	203.7	0.134	2021.078
12444+2200	HDS 1783	187.0	2014.49	0.879	0.677	70.3	105.3	250.3	110.8	0.304	TOK
62162	–	20.4	0.04	0.009	0.047	0.6	0.5	0.8	112.2	0.330	2021.163
12465-2051	RST 2814 AB	136.2	2013.13	0.606	0.189	117.9	163.6	167.6	294.0	0.062	TOK
62337	–	11.5	0.51	0.025	0.009	2.8	3.0	4.2	284.6	0.061	2021.160

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω(°) σ_Ω	ω(°) σ_ω	2021 2022	Author(s) Last obs.
12474-2935 –	DAW 105 8665	150.0 ...	2032.6 ...	0.817 ...	0.256 ...	84.6 ...	227.9 ...	233.7 ...	21.3 0.040 26.1 0.045	TOK 2021.160
12479-5127 62445	TOK 720 –	15.91 ...	2016.06 ...	0.05 ...	0.064 ...	142.2 ...	123.7 ...	297.0 ...	76.4 0.057 52.1 0.053	TOK 2021.078
12508+0806 62697	HDS 1803 –	54.0 8.3	1982.8 3.0	0.26 0.16	0.179 0.007	120.4 3.3	39.6 5.8	131.7 17.9	39.1 0.201 36.5 0.196	TOK 2021.163
12509-5743 62699	TOK 385 –	12.76 1.32	2018.59 0.42	0.950 fixed	0.104 0.020	60.6 12.3	100.2 14.1	202.2 32.7	105.6 0.147 107.5 0.170	TOK 2021.163
13107-0457 64296	BU 609 8807	500.0 ...	2026.7 ...	0.594 ...	0.627 ...	96.5 ...	173.8 ...	327.6 ...	182.2 0.161 181.2 0.172	TOK 2021.245
13123-5955 64425	SEE 170 AB –	27.53 0.20	2026.82 0.15	0.593 0.015	0.226 0.010	75.2 3.0	97.9 3.0	235.9 3.0	210.3 0.074 232.8 0.085	D et al. 2019.5333
13143+1320 –	LAW 2 –	9.68 0.16	2013.612 0.026	0.595 0.007	0.150 0.003	49.9 1.8	57.3 2.8	212.2 4.3	114.2 0.134 151.3 0.089	TOK 2021.158
13181-3829 64893	B 808 –	350.0 ...	1929.38 ...	0.322 ...	0.313 ...	31.3 ...	19.4 ...	164.7 ...	315.4 0.307 316.3 0.309	TOK 2021.319
13387-7011 66572	DON 609 –	620.0 ...	1999.86 ...	0.500 ...	0.336 ...	107.6 ...	123.5 ...	237.7 ...	189.0 0.060 184.5 0.063	TOK 2020.201
14144-1521 69562	CVN 25 Aa,Ab –	19.69 0.30	2011.96 0.91	0.437 0.019	0.258 0.014	34.9 10.0	272.8 14.1	125.7 5.3	217.1 0.320 225.6 0.330	TOK 2021.319
14144-1521 69562	RST 3869 AB –	300.0 ...	1982.59 ...	0.30 ...	2.018 ...	55.7 ...	276.5 ...	80.3 ...	83.5 1.640 84.5 1.664	TOK 2021.319
14219-3126 –	BWL 38 –	9.73 0.14	2020.18 0.10	0.36 0.05	0.101 0.003	106.0 5.0	235.5 2.6	282.0 9.1	240.0 0.073 226.1 0.087	TOK 2021.319
14262-4523 70576	I 402 –	26.21 0.10	2026.46 0.65	0.591 0.015	0.171 0.008	83.6 0.7	177.5 0.4	222.2 5.3	220.2 0.033 285.7 0.021	TOK 2021.316
14565-3438 73108	I 227 –	40.87 0.53	2038.14 1.56	0.900 0.005	0.253 0.003	133.8 5.0	117.4 10.0	209.6 15.0	93.1 0.434 92.2 0.427	D et al. 2019.1396

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω(°) σ_Ω	ω(°) σ_ω	2021 2022	Author(s) Last obs.
15192-1245 –	CRC 72 –	12.63 1.56	2021.87 0.13	0.54 0.12	0.245 0.021	56.8 7.2	68.2 3.3	41.7 16.2	46.5 0.136 108.1 0.082	TOK 2021.079
15362-0623 76400	TOK 301 Aa,Ab –	70.0 ...	2016.26 ...	0.42 ...	0.374 ...	144.7 ...	140.3 ...	95.3 ...	341.7 0.246 333.4 0.264	TOK 2021.160
15433-0515 76998	TOK 594 Aa,Ab –	3.65 0.09	2019.058 0.074	0.782 0.053	0.052 0.003	54.8 6.2	137.3 8.4	144.4 10.8	116.6 0.083 132.2 0.067	TOK 2021.319
15457-6529 77189	RST 792 –	174.0 75.0	2018.45 0.10	0.967 0.010	0.396 0.086	76.0 0.0	61.5 3.4	257.6 3.5	73.5 0.090 75.6 0.105	TOK 2021.163
15537-0429 77843	TOK 725 –	9.96 0.52	2020.83 0.05	0.57 0.03	0.082 0.002	150.0 0.0	229.2 12.2	15.8 14.1	190.5 0.034 99.2 0.063	TOK 2021.160
16048-4044 78765	I 1284 –	240.0 ...	1955.76 ...	0.80 ...	0.301 ...	79.6 ...	94.3 ...	122.9 ...	62.1 0.150 62.7 0.153	TOK 2021.158
16065-4027 78915	RST 1876 –	61.20 1.80	2016.58 0.18	0.919 0.009	0.194 0.010	121.0 2.7	70.9 2.3	129.8 4.2	139.9 0.084 134.5 0.098	TOK 2021.158
16085-1006 79071	BU 949 9932	57.76 0.40	2018.49 0.04	0.747 0.003	0.298 0.001	82.9 0.3	198.2 0.2	154.8 0.9	39.3 0.048 79.8 0.025	TOK 2021.160
16120-1928 79374	CHR 146 Aa,Ab –	10.06 0.12	2015.0 2.5	0.920 fixed	0.073 0.068	89.7 1.5	346.4 2.5	118.9 39.0	345.9 0.074 346.0 0.076	TOK 2021.319
16193-3529 79962	SEE 272 –	32.48 0.48	2011.04 0.52	0.956 0.012	0.144 0.023	33.0 32.3	123.1 21.2	328.9 29.3	271.0 0.240 272.0 0.249	TOK 2021.160
16195-3054 79979	TOK 410 Ba,Bb –	2.965 0.011	2016.679 0.050	0.629 0.028	0.060 0.001	81.5 1.5	105.0 1.1	347.7 6.8	282.5 0.093 289.1 0.065	TOK 2021.158
16253-4909 80448	CVN 27 Ba,Bb –	19.77 0.23	2017.26 0.22	0.470 0.018	0.182 0.003	107.9 0.9	3.8 1.1	138.3 4.9	122.1 0.065 81.8 0.067	TOK 2021.163
16278-4118 80629	HDS 2327 –	34.87 0.71	2018.19 0.82	0.309 0.042	0.165 0.009	131.4 5.1	21.0 4.8	110.1 14.6	211.8 0.123 201.3 0.134	TOK 2021.158
16302-1440 80817	WSI 132 –	17.80 0.30	2020.969 0.014	0.687 0.004	0.265 0.002	138.9 1.4	36.9 1.5	372.9 2.4	23.5 0.081 281.5 0.119	TOK 2021.160

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr)	T(yr)	e	a(")	i(°)	Ω(°)	ω(°)	2021	2022	Author(s)
		σ_P	σ_T	σ_e	σ_a	σ_i	σ_Ω	σ_ω			Last obs.
16365-6700 81320	HDS 2347 –	85.0 ...	2026.41 ...	0.20 ...	0.182 ...	141.1 ...	162.3 ...	84.2 ...	119.7 113.3	0.132 0.127	TOK 2021.245
16430-0857 81843	YSC 155 –	10.82 0.19	2020.77 0.16	0.900 fixed	0.065 0.006	137.0 10.3	113.1 6.7	318.4 10.3	40.3 352.3	0.016 0.053	TOK 2021.161
17141-0824 84303	BAR 7 –	390.0 ...	2081.4 ...	0.204 ...	1.878 ...	140.4 ...	177.8 ...	206.9 ...	41.2 40.1	1.499 1.501	TOK 2018.400
17220-2500 84970	CHR 182 –	28.21 ...	1995.29 ...	0.40 ...	0.229 ...	89.2 ...	54.4 ...	47.0 ...	54.1 54.4	0.156 0.150	TOK 2021.160
17489-0152 –	BU 824 10809	300.0 ...	2070.28 ...	0.50 ...	0.474 ...	65.0 ...	164.7 ...	22.1 ...	61.0 63.5	0.201 0.198	TOK 2021.330
17584+0428 87991	KUI 84 –	14.717 0.050	2030.899 0.060	0.513 0.020	0.170 0.005	61.0 2.0	171.3 2.0	10.8 2.0	344.4 349.5	0.229 0.249	D & L 2019.3776
18024+2050 88331	TOK 56 –	10.14 0.14	2024.20 0.37	0.464 0.045	0.045 0.004	29.7 13.2	215.7 21.3	263.4 14.3	331.5 353.7	0.053 0.047	TOK 2021.245
18150-5018 –	I 429 –	130.0 fixed	2013.19 4.23	0.129 0.031	0.193 0.004	84.8 0.4	138.1 0.7	78.8 14.7	301.5 304.4	0.051 0.061	TOK 2021.316
18250-0135 90253	AC 11 11324	440.6 121.4	1888.7 7.8	0.47 0.10	0.77 0.16	93.3 0.6	176.3 0.4	55.8 24.8	354.9 354.9	0.913 0.913	TOK 2021.330
18301+0404 90676	CHR 72 Aa,Ab –	70.8 8.7	2008.3 2.1	0.784 0.088	0.143 0.025	57.7 9.2	44.0 9.6	101.2 5.6	283.5 286.6	0.104 0.107	TOK 2021.319
18346-2734 91075	TOK 422 Aa,Ab –	8.55 0.34	2016.56 0.20	0.840 0.036	0.060 0.002	100.6 2.2	104.8 2.1	186.5 12.3	103.3 102.0	0.109 0.101	TOK 2021.319
18520-5418 92592	TOK 325 Aa,Ab –	11.25 0.32	2017.44 0.11	0.253 0.020	0.104 0.002	50.5 1.8	106.8 2.7	328.7 4.3	220.4 247.1	0.080 0.100	TOK 2021.316
18567-5102 92991	RST 5456 –	77.5 5.9	1976.0 4.4	0.17 0.06	0.169 0.007	135.0 6.3	120.7 5.1	154.0 23.0	124.2 121.8	0.195 0.194	TOK 2021.319
19082-0520 93991	RST 4618 –	137.0 15.0	1984.44 0.59	0.593 0.034	0.206 0.013	58.4 2.0	319.8 3.2	163.0 5.3	290.4 291.4	0.215 0.220	TOK 2021.319

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω(°) σ_Ω	ω(°) σ_ω	2021 2022	Author(s) Last obs.	
19118-5319 94310	FIN 68 –	116.4 2.7	1961.6 4.5	0.25 0.03	0.405 0.021	25.3 8.6	171.2 9.7	252.7 12.5	244.8 246.9	0.460 0.459	TOK 2021.330
19153+2454 94622	HDS 2724 –	8.145 0.054	2019.649 0.067	0.527 0.018	0.148 0.003	113.7 1.3	268.8 1.5	133.1 3.8	32.7 329.7	0.069 0.088	TOK 2021.319
19401-0759 96754	YSC 161 –	4.649 0.031	2015.318 0.052	0.622 0.025	0.069 0.002	95.1 0.9	66.3 0.7	309.7 3.6	297.2 254.2	0.010 0.060	TOK 2021.319
19449-2338 –	MTG 4 –	60.0 ...	2028.24 ...	0.271 ...	0.703 ...	105.1 ...	168.9 ...	316.0 ...	319.1 307.1	0.286 0.217	TOK 2021.316
19534+2020 97879	HDS2833 Ba,Bb –	85.0 ...	2036.5 ...	0.083 ...	0.224 ...	141.6 ...	27.9 ...	190.6 ...	266.1 261.1	0.180 0.182	TOK 2021.319
20111-5731 99453	HDO 295 –	500.0 ...	2030.1 ...	0.60 ...	0.862 ...	66.4 ...	93.9 ...	262.5 ...	300.2 302.9	0.257 0.242	TOK 2021.330
20239-4225 100591	BU 763 AB –	180.2 2.7	2003.82 0.09	0.806 0.003	0.609 0.006	32.1 1.2	216.3 1.7	181.8 1.9	180.0 181.5	0.489 0.509	TOK 2021.319
20403-5114 102006	HU 1617 –	200.0 ...	2058.84 ...	0.55 ...	0.351 ...	84.4 ...	111.0 ...	248.1 ...	280.4 280.9	0.179 0.183	TOK 2019.539
20536-7750 103118	HDS 2977 AB –	67.8 14.7	2018.44 0.09	0.825 0.024	0.227 0.030	111.7 2.8	291.1 1.5	225.6 2.4	299.7 295.3	0.099 0.130	TOK 2021.316
21158-5316 104978	FIN 329 –	17.85 0.18	2013.690 0.032	0.733 0.006	0.093 0.001	180.0 0.0	263.6 0.4	0.0 0.0	91.1 86.4	0.157 0.160	TOK 2020.836
21400-5222 106978	HDS 3084 –	21.32 0.56	1999.13 0.62	0.461 0.007	0.076 0.001	149.4 3.2	176.2 4.7	16.6 4.9	136.6 92.4	0.040 0.044	TOK 2021.317

TOK = TOKOVININ

MAS = MASON

J & M = JOSTIES & MASON

D & L = DOCOBO & LING

D et al. = DOCOBO, MÉNDEZ, CAMPO, GÓMEZ & COSTA

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