

EPHEMERIDES OF NEAS AND SOME UNUSUAL MINOR PLANETS

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°	19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°
188236 2002 VY										451574 2012 AU <i>(continuation)</i>									
12 23	5 7.79	+25 29.7	1.424	2.394	5.1	19.5	167 E	70	39	6 5	10 22.00	+36 54.0	1.782	1.737	33.5	20.8	71 E	57*	27*
187044 2005 LF15										503880 2000 YJ29									
12 23	5 8.02	+11 46.9	1.521	2.477	6.8	21.2	163 E	57	52	12 23	5 11.07	+26 18.0	1.212	2.184	5.4	20.6	168 E	71	38
306443 1998 WL										338214 2002 SO59									
12 23	5 10.08	+27 3.3	0.840	1.813	6.7	17.6	168 E	72	37	12 23	5 11.37	+26 2.4	1.105	2.078	5.6	19.5	168 E	71	38
451574 2012 AU										481984 Cernunnos									
12 23	5 10.09	+57 36.1	0.890	1.785	18.6	18.9	145 E	77	6	12 23	5 11.97	+ 4 17.2	1.000	1.945	11.3	20.1	157 E	49	60
488702 2003 YU117										481984 Cernunnos (continued)									
12 23	5 13.37	- 8 12.7	0.643	1.560	20.6	18.9	146 E	37	72	12 23	5 6.68	+ 4 43.5	1.045	1.975	12.8	20.3	154 E	50	59

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Table with columns: 19/21, α2000, δ2000, Δ, r, β, V, ψ, 45°-26°. It is divided into sections for different minor planets: 504074 2006 AD (continuation), 48338 2002 PV27 (continuation), 18480 2001 FE155, 124158 2001 OV2, 510410 2011 UT192, 451370 2011 AK5, 224783 2006 QP82, 437922 2002 NJ44, 138893 2000 YH66, 271271 2003 UW190, 3267 Glo, and 48338 2002 PV27. Each section lists multiple rows of astronomical data with various coordinates and magnitudes.

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°	19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°										
16958 Klaasen (continuation)										155340 2006 SK ₁₉₈ (continuation)																			
9 18	13 0.57	+15 0.2	2.296	1.429	16.1	18.4	23 E	17*	5*	1 22	5 16.30	+20 23.1	2.132	2.942	12.8	17.7	172 E	65	44	1 22	5 16.30	+20 23.1	2.132	2.942	12.8	17.7	172 E	65	44
89454 2001 XG										344342 2001 WZ ₁₅																			
12 23	5 47.11	+44 7.1	1.369	2.314	8.7	17.9	159 E	89	20	12 23	5 48.22	+31 0.1	1.128	2.106	3.8	17.7	172 E	76	33	12 23	5 48.22	+31 0.1	1.128	2.106	3.8	17.7	172 E	76	33
345053 2005 GD ₁₀₃										396656 2002 MZ ₃																			
12 23	5 47.68	+33 30.4	1.590	2.564	4.0	20.8	169 E	79	30	12 23	5 48.92	+13 49.7	1.519	2.494	4.0	19.9	170 E	59	50	12 23	5 48.92	+13 49.7	1.519	2.494	4.0	19.9	170 E	59	50
155340 2006 SK ₁₉₈										408825 2001 OF ₈₄																			
12 23	5 47.86	+21 32.9	2.016	2.998	1.3	20.4	176 E	67	42	12 23	5 49.68	+56 10.0	2.053	2.929	10.5	21.1	147 E	79	8	12 23	5 49.68	+56 10.0	2.053	2.929	10.5	21.1	147 E	79	8

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°	19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°
25916 2001 CP44 (continuation)										329144 2011 UZ192 (continuation)									
1 22	5 39.21	+23 14.7	2.778	3.621	9.2	19.3	144 E	68	41	2 26	6 27.20	-2 53.9	0.730	1.477	36.5	18.6	118 E	42	67
12 23	6 7.02	+36 1.0	3.606	4.571	2.7	23.3	167 W	81	28	12 23	6 8.20	+11 22.2	1.426	2.397	5.0	20.9	168 W	56	53
12 28	6 1.83	+36 15.4	3.608	4.569	3.0	23.3	166 E	81	28	1 2	5 56.53	+11 16.3	1.470	2.429	6.7	21.1	163 E	56	53
1 2	5 56.67	+36 27.4	3.619	4.567	3.7	23.3	163 E	81	28	1 12	5 46.62	+11 22.6	1.542	2.459	10.4	21.4	153 E	56	53
1 7	5 51.66	+36 36.9	3.637	4.565	4.6	23.4	158 E	82	27	1 22	5 39.37	+11 39.3	1.638	2.489	14.0	21.7	142 E	57	52
1 12	5 46.87	+36 44.1	3.664	4.562	5.6	23.5	153 E	82	27	2 1	5 35.21	+12 3.9	1.754	2.518	17.0	21.9	132 E	57	52
322966 2002 KF4										338159 2002 RY									
12 23	6 7.45	+33 19.7	0.895	1.872	5.2	17.9	170 W	78	31	12 23	6 8.20	+11 22.2	1.426	2.397	5.0	20.9	168 W	56	53
12 28	6 1.81	+33 40.9	0.916	1.890	6.0	18.0	168 E	79	30	1 2	5 56.53	+11 16.3	1.470	2.429	6.7	21.1	163 E	56	53
1 2	5 56.59	+33 56.0	0.943	1.909	7.9	18.1	164 E	79	30	1 12	5 46.62	+11 22.6	1.542	2.459	10.4	21.4	153 E	56	53
1 7	5 52.06	+34 5.3	0.976	1.928	10.3	18.3	160 E	79	30	1 22	5 39.37	+11 39.3	1.638	2.489	14.0	21.7	142 E	57	52
1 12	5 48.38	+34 9.6	1.014	1.948	12.6	18.5	154 E	79	30	2 1	5 35.06	-3 27.3	2.445	3.133	14.6	21.2	126 E	42	67
1 17	5 45.68	+34 9.8	1.057	1.968	14.8	18.7	149 E	79	30	2 11	5 31.53	-2 7.1	2.531	3.112	16.3	21.4	117 E	43	66
1 22	5 44.01	+34 6.6	1.105	1.988	16.9	18.9	144 E	79	30	2 21	5 30.41	-0 42.5	2.629	3.089	17.7	21.5	109 E	44	65
2 1	5 43.84	+33 53.4	1.214	2.029	20.3	19.3	134 E	79	30	338159 2002 RY									
2 11	5 47.63	+33 34.8	1.338	2.071	22.9	19.6	125 E	79	30	12 23	6 8.20	+11 22.2	1.426	2.397	5.0	20.9	168 W	56	53
2 21	5 54.80	+33 13.0	1.473	2.113	24.7	19.9	117 E	78	31	1 2	5 56.53	+11 16.3	1.470	2.429	6.7	21.1	163 E	56	53
2 26	5 59.46	+33 1.2	1.544	2.135	25.3	20.1	113 E	78	31	1 12	5 46.62	+11 22.6	1.542	2.459	10.4	21.4	153 E	56	53
3 2	6 4.74	+32 48.8	1.617	2.156	25.7	20.2	109 E	78	31	1 22	5 39.37	+11 39.3	1.638	2.489	14.0	21.7	142 E	57	52
3 7	6 10.57	+32 35.8	1.692	2.178	26.0	20.3	105 E	78	31	2 1	5 35.21	+12 3.9	1.754	2.518	17.0	21.9	132 E	57	52
3 12	6 16.87	+32 22.0	1.769	2.200	26.2	20.4	102 E	77	32	105208 2000 OH48									
3 22	6 30.66	+31 51.9	1.925	2.243	26.3	20.7	95 E	77	32*	12 23	6 8.27	+27 2.1	1.208	2.191	1.7	19.7	176 W	72	37
4 1	6 45.70	+31 17.6	2.085	2.287	25.9	20.9	88 E	73	33*	12 28	6 1.50	+27 3.2	1.225	2.205	2.9	19.9	174 E	72	37
4 11	7 1.65	+30 38.6	2.246	2.330	25.2	21.1	82 E	68	33*	1 2	5 55.10	+27 1.9	1.249	2.219	5.4	20.1	168 E	72	37
4 21	7 18.19	+29 54.4	2.406	2.374	24.3	21.2	76 E	62	33*	1 7	5 49.27	+26 58.6	1.280	2.234	8.1	20.2	161 E	72	37
5 1	7 35.13	+29 4.6	2.565	2.417	23.1	21.4	70 E	55	33*	1 12	5 44.17	+26 53.7	1.316	2.248	10.5	20.4	155 E	72	37
5 11	7 52.26	+28 9.3	2.721	2.460	21.7	21.5	64 E	48	33*	1 17	5 39.93	+26 47.8	1.359	2.261	12.8	20.6	149 E	72	37
329144 2011 UZ192										1 22	5 36.61	+26 41.3	1.408	2.275	14.9	20.8	144 E	72	37
12 23	6 7.59	-1 47.5	0.596	1.544	15.8	17.7	155 W	43	66	1 27	5 34.26	+26 34.6	1.461	2.289	16.8	20.9	138 E	72	37
12 28	6 4.68	-3 9.1	0.588	1.531	16.9	17.7	153 E	42	67	2 1	5 32.89	+26 28.2	1.518	2.302	18.4	21.1	133 E	71	38
1 2	6 1.88	-4 17.5	0.584	1.519	18.5	17.7	151 E	41	68	2 6	5 32.46	+26 22.2	1.580	2.315	19.8	21.2	127 E	71	38
1 7	5 59.46	-5 11.5	0.583	1.508	20.5	17.7	148 E	40	69	2 11	5 32.93	+26 16.7	1.645	2.328	21.0	21.3	122 E	71	38
1 12	5 57.65	-5 50.3	0.587	1.499	22.6	17.8	144 E	39	70	2 16	5 34.25	+26 11.7	1.712	2.341	21.9	21.5	118 E	71	38
1 22	5 56.57	-6 23.3	0.602	1.484	26.7	18.0	137 E	39	70	410649 2008 SO									
2 1	5 59.74	-6 3.7	0.629	1.475	30.4	18.1	131 E	39	70	12 23	6 8.37	+6 4.0	0.672	1.637	10.4	21.7	163 W	51	58
2 11	6 7.53	-5 4.8	0.664	1.471	33.3	18.3	125 E	40	69	12 28	5 58.59	+6 0.0	0.671	1.634	11.0	21.7	162 E	51	58
2 16	6 13.08	-4 25.3	0.684	1.472	34.6	18.4	122 E	41	68	1 2	5 49.10	+6 4.6	0.677	1.631	13.0	21.8	158 E	51	58
2 21	6 19.65	-3 41.1	0.706	1.474	35.6	18.5	120 E	41	68	1 7	5 40.30	+6 17.3	0.687	1.627	15.8	21.9	153 E	51	58
										1 12	5 32.50	+6 37.3	0.703	1.622	18.9	22.0	148 E	52	57
										1 17	5 25.94	+7 3.7	0.723	1.616	22.0	22.2	142 E	52	57
										1 22	5 20.76	+7 35.4	0.747	1.610	24.9	22.4	136 E	53	56
										450292 2004 KU									
										12 23	6 8.63	+21 10.2	1.476	2.459	1.1	19.2	177 W	66	43
										12 28	6 1.63	+22 10.7	1.457	2.438	2.2	19.2	175 E	67	42
										1 2	5 54.51	+23 11.5	1.446	2.417	4.9	19.3	168 E	68	41
										1 7	5 47.47	+24 11.9	1.444	2.396	7.6	19.4	161 E	69	40
										1 12	5 40.73	+25 10.9	1.448	2.374	10.2	19.5	155 E	70	39
										1 17	5 34.50	+26 7.9	1.460	2.353	12.8	19.6	148 E	71	38
										1 22	5 28.93	+27 2.6	1.478	2.332	15.1	19.7	142 E	72	37
										1 27	5 24.18	+27 54.8	1.502	2.310	17.3	19.8	136 E	73	36
										2 1	5 20.37	+28 44.4	1.530	2.289	19.3	19.9	130 E	74	35
										2 11	5 15.80	+30 16.7	1.599	2.246	22.7	20.1	119 E	75	34
										2 21	5 15.39	+31 41.0	1.678	2.203	25.2	20.2	109 E	77	32

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°	19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°		
450292 2004 KU (continuation)										163696 2003 EB₅₀ (continuation)											
3	2	5 19.05	+32 58.6	1.762	2.160	26.9	20.3	100	E 78	31*	1	24	4 37.77	+61 58.5	0.864	1.624	30.6	18.6	123	E 73	2
345124 2005 QR₁₄₈										436036 2009 MK₇											
12	23	6 9.26	+25 26.1	1.554	2.538	1.0	21.0	177	W 70	39	12	23	6 10.71	+ 1 22.2	1.295	2.237	9.5	19.8	158	W 46	63
216917 1990 TH₁										268251 2005 MF₂₄											
12	23	6 9.38	-21 36.3	1.216	2.034	20.0	20.5	135	W 23	86	12	23	6 11.04	+19 21.7	1.577	2.558	1.7	21.0	175	W 64	45
163696 2003 EB₅₀										456288 2006 SH₇₇											
12	23	6 10.58	+65 3.4	0.489	1.387	28.1	16.9	138	W 70	—	12	23	6 11.32	- 1 18.3	0.986	1.923	12.4	21.7	155	W 44	65
38071 1999 GU₃										147083 2002 SA₃₇											
12	23	6 11.39	+27 32.2	1.639	2.621	1.7	20.2	175	W 73	36	12	23	6 11.39	+27 32.2	1.639	2.621	1.7	20.2	175	W 73	36

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19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°	19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°
147083 2002 SA₃₇ (continuation)										114319 2002 XD₅₈ (continuation)									
1 27	5 36.52	+27 2.7	1.857	2.674	14.1	21.1	138 E	72	37	9 28	10 28.31	+3 56.0	3.712	2.868	9.5	21.4	28 W	18*	16*
2 1	5 34.29	+26 55.3	1.912	2.681	15.6	21.2	133 E	72	37	10 8	10 41.49	+2 29.1	3.641	2.872	11.3	21.4	34 W	23*	20*
2 6	5 32.88	+26 48.1	1.971	2.688	16.9	21.3	127 E	72	37	10 18	10 54.22	+1 1.6	3.556	2.874	13.1	21.4	41 W	28*	24*
2 11	5 32.29	+26 41.3	2.034	2.694	18.0	21.4	122 E	72	37	10 28	11 6.43	-0 25.5	3.457	2.876	14.7	21.4	47 W	33*	29*
289022 2004 TN₁₁₅										114319 2002 XD₅₈ (continuation)									
12 23	6 11.77	+41 6.8	1.747	2.700	6.4	19.6	162 W	86	23	11 7	11 18.03	-1 51.5	3.347	2.876	16.2	21.4	54 W	36*	34*
12 28	6 4.27	+41 31.1	1.765	2.715	6.7	19.6	161 E	87	22	11 17	11 28.92	-3 15.4	3.225	2.876	17.5	21.4	61 W	39*	40*
1 2	5 56.98	+41 48.7	1.792	2.730	7.6	19.7	159 E	87	22	11 27	11 38.96	-4 36.2	3.094	2.875	18.6	21.3	68 W	40*	46*
1 7	5 50.12	+41 59.9	1.825	2.745	8.9	19.8	154 E	87	22	12 7	11 47.99	-5 52.5	2.955	2.873	19.4	21.2	76 W	39	53*
1 12	5 43.89	+42 5.3	1.865	2.760	10.3	19.9	150 E	87	22	12 17	11 55.83	-7 3.3	2.811	2.869	19.9	21.1	83 W	38	60*
1 17	5 38.41	+42 5.7	1.911	2.774	11.8	20.0	145 E	87	22	12 27	12 2.23	-8 6.8	2.663	2.865	20.1	21.0	92 W	37	67*
1 22	5 33.80	+42 1.9	1.964	2.789	13.2	20.2	140 E	87	22	1 6	12 6.95	-9 1.3	2.515	2.860	19.8	20.9	100 W	36	73*
1 27	5 30.12	+41 55.0	2.021	2.803	14.5	20.3	135 E	87	22	1 16	12 9.72	-9 44.7	2.371	2.854	19.0	20.7	109 W	35	74
2 1	5 27.41	+41 45.7	2.083	2.816	15.6	20.4	130 E	87	22	434882 2006 SM₃₅₆									
										12 23	6 13.29	+20 17.2	1.282	2.264	1.7	20.8	176 W	65	44
										12 28	6 6.97	+20 24.9	1.296	2.277	2.2	20.9	175 E	65	44
										1 2	6 0.90	+20 32.5	1.317	2.290	4.7	21.1	169 E	66	43
										1 7	5 55.29	+20 40.0	1.345	2.303	7.2	21.3	163 E	66	43
										1 12	5 50.29	+20 47.4	1.380	2.315	9.7	21.5	157 E	66	43
										1 17	5 46.03	+20 54.9	1.420	2.328	12.0	21.6	151 E	66	43
										1 22	5 42.58	+21 2.3	1.467	2.340	14.1	21.8	145 E	66	43
										279815 2000 JT₃									
										12 23	6 13.81	+0 58.6	1.836	2.770	7.9	20.2	157 W	46	63
										1 2	6 3.39	+1 18.2	1.868	2.795	8.3	20.3	156 E	46	63
										1 12	5 54.09	+1 56.0	1.929	2.819	10.3	20.4	149 E	47	62
										1 22	5 46.72	+2 48.0	2.015	2.842	12.8	20.6	140 E	48	61
										2 1	5 41.77	+3 49.5	2.122	2.865	15.1	20.9	131 E	49	60
										2 11	5 39.47	+4 55.9	2.248	2.886	17.0	21.1	121 E	50	59
										2 21	5 39.74	+6 3.6	2.386	2.906	18.4	21.3	112 E	51	58
										3 2	5 42.39	+7 9.5	2.534	2.926	19.2	21.4	103 E	52	57
										211397 2002 VD₁₄									
										12 23	6 15.16	+32 2.8	1.338	2.315	3.8	20.0	171 W	77	32
										12 28	6 8.31	+32 14.8	1.354	2.329	4.1	20.1	170 E	77	32
										1 2	6 1.73	+32 22.4	1.377	2.344	5.7	20.2	166 E	77	32
										1 7	5 55.62	+32 25.9	1.406	2.358	7.8	20.4	161 E	77	32
										1 12	5 50.19	+32 25.8	1.442	2.372	10.0	20.5	155 E	77	32
										1 17	5 45.55	+32 22.7	1.485	2.386	12.0	20.7	150 E	77	32
										1 22	5 41.80	+32 17.3	1.533	2.400	13.9	20.8	144 E	77	32
										1 27	5 39.00	+32 10.2	1.586	2.413	15.7	21.0	139 E	77	32
										2 1	5 37.17	+32 2.2	1.644	2.427	17.2	21.1	133 E	77	32
										2 6	5 36.29	+31 53.5	1.706	2.440	18.6	21.2	128 E	77	32
										2 11	5 36.32	+31 44.6	1.771	2.453	19.7	21.4	123 E	77	32
										62047 2000 RE₆₆									
										12 23	6 15.31	+20 55.8	1.651	2.633	1.5	19.3	176 W	66	43
										12 28	6 9.39	+21 5.1	1.668	2.650	1.5	19.3	176 E	66	43
										1 2	6 3.67	+21 14.1	1.692	2.666	3.7	19.5	170 E	66	43
										1 7	5 58.31	+21 22.6	1.724	2.682	5.9	19.7	164 E	66	43
										1 12	5 53.45	+21 30.7	1.763	2.697	8.0	19.9	157 E	67	42
										1 22	5 45.57	+21 46.0	1.860	2.728	11.8	20.1	145 E	67	42
										2 1	5 40.58	+22 0.6	1.979	2.758	14.8	20.4	134 E	67	42
										2 11	5 38.63	+22 15.0	2.117	2.787	17.1	20.7	124 E	67	42
										2 21	5 39.54	+22 29.4	2.268	2.815	18.8	20.9	114 E	67	42
										3 2	5 43.04	+22 43.4	2.427	2.842	19.7	21.1	104 E	68	41
										3 12	5 48.80	+22 56.3	2.592	2.869	20.2	21.3	96 E	68*	41*
										3 22	5 56.44	+23 7.3	2.758	2.894	20.1	21.4	88 E	66*	40*
										317638 2003 EQ₁₁									
										12 23	6 16.28	+8 39.9	2.476	3.435	4.3	21.8	165 W	54	55
										1 2	6 6.98	+8 44.7	2.458	3.410	4.9	21.8	163 E	54	55
										1 12	5 58.11	+8 58.9	2.471	3.385	7.2	21.9	154 E	54	55
										1 22	5 50.41	+9 21.7	2.512	3.358	9.9	22.1	144 E	54	55
										2 1	5 44.48	+9 51.4	2.578	3.331	12.4	22.2	133 E	55	54
										346281 2008 JV₄									
										12 23	6 16.68	+36 51.1	1.827	2.793	4.8	21.6	166 W	82	27
										12 28	6 9.76	+36 58.0	1.838	2.803	4.9	21.7	166 E	82	27
										1 2	6 3.02	+37 0.2	1.857	2.813	5.8	21.8	163 E	82	27
										1 7	5 56.63	+36 57.8	1.883	2.822	7.3	21.9	159 E	82	27
										1 12	5 50.77	+36 51.5	1.916	2.831	8.9	22.0	154 E	82	27
										1 17	5 45.56	+36 41.8	1.956	2.840	10.5	22.1	148 E	82	27
										1 22	5 41.11	+36 29.5	2.002	2.849	12.0	22.2	143 E	81	28
										12009 1996 UE									
										12 23	6 17.67	+29 9.5	1.225	2.205	3.0	17.6	173 W	74	35
										12 28	6 10.82	+29 16.6	1.241	2.221	3.0	17.6	173 E	74	35
										1 2	6 4.26	+29 20.3	1.264	2.237	5.0	17.8	169 E	74	35
										1 7	5 58.22	+29 20.9	1.294	2.252	7.4	18.0	163 E	74	35

