

EPHEMERIDES OF NEAS AND SOME UNUSUAL MINOR PLANETS

2022	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°	2022	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	-26°			
194212 2001 TH₁₁₄										120966 1998 VT₂₉												
	h	m	°	'	°	'	°	'	°		h	m	°	'	°	'	°	'	°			
1	1	18 43.34	-25 10.6	3.114	2.132	1.0	21.4	2 W	—	—	1	1	20 4.17	-20 1.1	3.523	2.611	7.0	21.4	19 E	8*	9*	
1	11	19 7.14	-24 34.1	3.073	2.097	2.6	21.4	6 W	—	—	1	11	20 21.62	-19 0.8	3.536	2.586	4.8	21.3	13 E	4*	4*	
1	21	19 31.17	-23 43.5	3.024	2.062	4.8	21.5	10 W	—	4*	1	21	20 39.20	-17 52.9	3.534	2.560	2.7	21.2	7 E	—	—	
1	31	19 55.33	-22 38.7	2.967	2.027	7.0	21.5	14 W	—	8*	1	31	20 56.86	-16 37.6	3.518	2.533	0.5	21.0	1 E	—	—	
2	10	20 19.53	-21 19.8	2.902	1.993	9.2	21.5	19 W	1*	13*	2	10	21 14.55	-15 15.2	3.488	2.506	1.8	21.0	5 W	—	—	
517726 2015 LZ₂₂										471926 Jörmungandr												
1	1	18 57.43	-23 17.7	3.533	2.522	1.541	1.9	21.5	3 E	—	—	1	1	20 10.27	-6 49.5	1.804	1.020	25.2	21.1	26 E	20*	5*
1	11	19 30.03	-22 26.6	2.523	1.539	0.4	21.3	1 E	—	—	1	11	20 38.31	-6 44.7	1.666	0.848	26.6	20.5	23 E	16*	2*	
1	21	20 2.18	-21 18.4	2.524	1.541	1.6	21.5	2 W	—	—	1	21	21 11.35	-6 42.8	1.491	0.655	30.5	19.9	20 E	14*	1*	
1	31	20 33.64	-19 48.6	2.526	1.547	3.2	21.6	5 W	—	—	1	31	21 51.07	-7 20.6	1.261	0.437	42.6	19.0	17 E	11*	2*	
2	10	21 4.22	-18 0.0	2.528	1.556	4.9	21.7	8 W	—	2*	2	10	22 28.04	-12 0.6	0.935	0.233	96.1	18.7	14 E	5*	5*	
506446 2001 RD₁₄₂										498677 2008 SS207												
1	1	19 0.30	-25 2.0	3.205	2.225	1.4	21.5	4 E	—	—	1	1	20 29.08	-7 40.9	2.482	1.696	16.6	21.4	29 E	22*	9*	
1	11	19 20.00	-23 10.7	3.484	2.501	0.9	21.3	2 W	—	—	1	11	20 55.98	-6 43.5	2.475	1.649	15.2	21.3	26 E	19*	6*	
1	21	19 40.20	-22 54.5	3.421	2.450	3.1	21.4	8 W	—	2*	1	21	21 23.71	-5 31.1	2.467	1.605	13.7	21.2	23 E	17*	3*	
1	31	20 0.86	-22 29.0	3.347	2.399	5.4	21.5	13 W	—	7*	1	31	21 52.17	-4 4 8	2.457	1.566	12.3	21.1	20 E	14*	1*	
2	10	20 21.92	-21 54.2	3.262	2.347	7.6	21.5	18 W	—	12*	2	10	22 21.30	-2 26.4	2.446	1.530	10.8	20.9	17 E	11*	—	
347910 2002 XP₅₂										438990 2010 SG13												
1	1	19 1.08	-25 2.0	3.205	2.225	1.9	21.4	4 E	—	—	1	1	20 31.95	+ 3 11.9	1.813	1.187	30.0	21.3	37 E	31*	5*	
1	11	19 22.38	-23 38.0	3.176	2.194	1.0	21.3	2 W	—	—	1	11	20 58.07	+ 3 31.9	1.729	1.060	30.9	20.9	34 E	28*	2*	
1	21	19 43.60	-22 2.2	3.137	2.162	3.1	21.4	7 W	—	1*	1	21	21 27.56	+ 3 56.0	1.623	0.920	32.8	20.5	30 E	24*	—	
1	31	20 4.69	-20 14.2	3.086	2.131	5.4	21.4	12 W	—	5*	1	31	21 4.43	+ 4 11.9	1.491	0.767	36.4	20.1	28 E	21*	—	
2	10	20 25.59	-18 14.0	3.025	2.099	7.7	21.5	17 W	2*	10*	2	10	22 40.95	+ 3 49.8	1.328	0.600	43.8	19.5	25 E	19*	1*	
369452 2010 LG₁₄										518737 2009 OO9												
1	1	19 3.28	-15 30.6	2.566	1.601	5.4	21.4	9 E	3*	—	1	1	20 37.35	-20 43.5	1.856	1.066	24.1	21.4	26 E	12*	16*	
1	11	19 24.74	-14 4.1	2.509	1.540	5.0	21.3	8 W	—	—	1	6	20 51.01	-20 12.6	1.797	0.989	24.3	21.2	24 E	11*	15*	
1	21	19 47.04	-12 21.0	2.432	1.471	6.4	21.2	10 W	4*	—	1	11	21 5.54	-19 35.1	1.731	0.909	24.8	20.9	23 E	10*	13*	
1	31	20 10.45	-10 18.7	2.337	1.392	8.9	21.1	13 W	6*	—	1	16	21 21.05	-18 50.0	1.657	0.825	25.9	20.7	22 E	9*	12*	
2	10	20 35.32	-7 54.2	2.225	1.302	11.8	20.9	16 W	9*	4*	1	21	21 37.64	-17 55.6	1.573	0.737	27.9	20.4	21 E	9*	11*	
450979 2008 SO₂₈										194263 2001 UL												
1	1	19 12.98	-22 19.9	2.588	1.615	4.0	21.4	7 E	—	—	1	1	20 46.60	-6 0.5	3.153	2.402	13.2	21.5	34 E	26*	13*	
1	11	19 43.68	-21 8.3	2.574	1.593	2.2	21.2	4 E	—	—	1	11	21 4.58	-5 29.4	3.187	2.369	11.4	21.4	28 E	22*	7*	
1	21	20 14.30	-19 34.7	2.559	1.575	0.5	21.0	1 E	—	—	1	21	21 22.99	-4 47.9	3.208	2.336	9.5	21.3	23 E	17*	2*	
1	31	20 44.65	-17 40.4	2.544	1.560	1.2	21.1	2 W	—	—	1	31	21 41.76	-3 57.0	3.218	2.302	7.6	21.2	18 E	12*	—	
2	10	21 14.58	-15 27.6	2.530	1.549	2.9	21.2	5 W	—	—	2	10	22 0.86	-2 57.5	3.216	2.268	5.8	21.1	13 E	7*	—	
487897 2015 TH₁₆₆										450807 2007 UC9												
1	1	19 27.29	-15 59.2	2.621	1.673	7.2	21.4	12 E	6*	—	1	1	20 56.41	-32 52.0	4.215	3.406	8.4	21.5	31 E	3*	24*	
1	11	19 55.97	-14 57.4	2.621	1.659	5.6	21.3	10 E	4*	—	1	11	21 11.20	-31 29.9	4.245	3.378	7.0	21.4	25 E	1*	19*	
1	21	20 24.58	-13 38.3	2.620	1.648	4.3	21.3	7 E	1*	—	1	21	21 26.14	-30 5.0	4.259	3.349	5.7	21.3	20 E	—	14*	
1	31	20 53.01	-12 3.4	2.618	1.640	3.3	21.2	5 E	—	—	1	31	21 41.17	-28 37.7	4.259	3.321	4.6	21.3	16 E	—	9*	
2	10	21 21.14	-10 14.6	2.614	1.634	3.1	21.2	5 W	—	—	2	10	21 56.19	-27 8.1	4.243	3.293	4.1	21.2	14 E	—	5*	
250614 2005 GG										258325 2001 VB2												
1	1	19 27.63	-25 26.7	3.538	2.576	3.8	21.4	10 E	—	4*	1	1	21 5.58	-21 19.3	1.762	1.074	29.6	21.5	33 E	15*	23*	
1	11	19 44.53	-25 27.2	3.495	2.517	2.0	21.2	5 E	—	—	1	6	21 25.59	-19 37.9	1.750	1.062	29.9	21.4	32 E	16*	22*	
1	21	20 2.06	-25 21.8	3.432	2.455	2.3	21.1	6 W	—	—	1	11	21 45.52	-17 46.7	1.740	1.052	30.1	21.4	32 E	17*	21*	
1	31	20 20.23	-25 10.7	3.352	2.391	4.4	21.1	11 W	—	4*	1	16	22 5.34	-15 46.3	1.731	1.045	30.4	21.4	32 E	18*	21*	
2	10	20 39.03	-24 54.0	3.254	2.324	6.9	21.1	16 W	—	10*	1	21	22 25.02	-13 37.9	1.724	1.040	30.6	21.4	33 E	19*	20*	
484549 2008 GW₇₃										477588 2010 JD87												
1	1	19 39.54	-26 10.3	5.634	4.681	2.7	21.5	13 E	—	6*	1	1	21 39.08	+ 3 17.4	1.066	0.870	60.1	21.4	50 E	40*	20*	
1	11	19 50.93	-25 48.9	5.658	4.683	1.4	21.4	6 E	—	—	1	6	21 46.44	+ 4 39.9	1.021	0.810	63.8	21.2	48 E	39*	16*	
1	21	20 2.31	-25 25.6	5.662	4.684	1.2	21.4	6 W	—	—	1	11	21 53.72	+ 6 0.9	0.968	0.750	68.5	21.1	45 E	38*	13*	
1	31	20 13.60	-25 0.7	5.646	4.686	2.5	21.5	12 W	—	6*	1	16	22 0.60	+ 7 15.4	0.906	0.693	74.6	21.0	43 E	36*	10*	
2	10	20 24.69	-24 34.7	5.610	4.688	3.9	21.6	19 W	—	13*	1	21	22 6.62	+ 8 14.3	0.836	0.639	82.6	20.9	40 E	34*	6*	
271480 2004 FX₃₁										162195 1999 RK45												
1	1	19 42.38	-9 46.0	2.565	1.667	11.2	21.4	19 E	13*	—	1	1	21 48.80	-17 19.3	1.302	0.896	49.0	21.4	43 E	22*	31*	
1	11	20 6.72	-9 31.6	2.557	1.630	9.2	21.3	15 E	9*	—	1	11	22 8.34	-15 22.0	1.184	0.737	55.9	20.9	38 E	21*	25*	
1	21	20 31.59	-9 3.6	2.538	1.589	7.4	21.2	12 E	5*	—	1	21	22 26.50	-13 11.8	1.022	0.572	69.9	20.5	33 E	19*	20*	
1	31	20 57.05	-8 22.5	2.508	1.544	5.9	21.0	9 E	1*	—	1	31	22 32.68	-11 24.9	0.812	0.423	101.1	20.6	25 E	14*	13*	
2	10	21 23.19	-7 28.8	2.467	1.494	4.9	20.8	7 W	1*	—	2	10	21 53.50	-12 5.2	0.631	0.364	165.0	20.1	5 E	—	—	
399587 2003 TW₉										366949 2005 WP1												
1	1	19 55.62	-17 35.7	3.058	2.141	7.9	21.4	18 E	9*	6*	1	1	20 0.74	-14 44.2	2.921	2.023	9.5	21.5	20 E	12*	6*	
1	11	20 15.98	-15 50.3	3.047	2.099	5.9	21.3	13 E	6*	1*	1	11	20 21.51	-12 38.8	2.906	1.978	7.7	21.3	16 E	9*	1*	
1	21	20 36.60	-13 53.2	3.025	2.057	4.1	21.1	9 E	3*	—	1	21	20 42.66	-10 20.4	2.883	1.933	6.2	21.2	12 E	6*	—	
1	31	20 57.44	-11 44.0	2.993	2.016	2.9	21.0	6 E	—	—	1	31	21 4.17	-7 48.5	2.850	1.889	5.3	21.1	10 E	3*	—	
2	10	21 18.50	-9 22.5	2.952	1.974	3.1	20.9	6 W	—	—	2	10	21 26.06	-5 3.1	2.811	1.846	5.1	21.0	10 W	2*	—	