ELEMENTS AND OPPOSITION DATES OF SOME UNUSUAL MINOR PLANETS

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

	Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
		m		°	°	°	°		°						
132	Aethra	9.0	X	99.56440	255.25029	258.38381	24.98357	0.3893081	0.23387747	2.61	1.59	3.62	Mc	7 9.7	13.6
391	Ingeborg	10.8	X	322.74183	146.99062	212.85788	23.20328	0.3058756	0.27889435	2.32	1.61	3.03	Mc	7 16.3	13.2
475	Ocllo	11.5	X	237.98285	305.93807	34.40253	18.94859	0.3791878	0.23588658	2.59	1.61	3.58	Mc	3 24.3	16.6
512	Taurinensis	10.8	X	96.98121	249.24444	107.02703	8.74769	0.2539401	0.30417520	2.19	1.63	2.75	Mc	—	—
699	Hela	11.3	X	64.46843	91.35094	242.54412	15.29465	0.4102190	0.23347553	2.61	1.54	3.68	Mc	—	—
944	Hidalgo	10.7	X	70.56806	56.56572	21.42299	42.55233	0.6606960	0.07181870	5.73	1.94	9.52	Jc	4 19.6	18.8
985	Rosina	12.8	X	128.56455	59.58775	290.29441	4.05725	0.2770995	0.28250509	2.30	1.66	2.94	Mc	—	—
1009	Sirene	13.9	X	335.64753	186.50956	229.29667	15.71141	0.4526209	0.23122107	2.63	1.44	3.82	Mc	—	—
1011	Laodamia	12.7	X	101.14057	353.22734	132.52131	5.49476	0.3506815	0.26639679	2.39	1.55	3.23	Mc	6 7.3	16.3
1065	Amundsenia	12.1	X	59.28644	353.58091	330.31747	8.36428	0.2971918	0.27180742	2.36	1.66	3.06	Mc	—	—
1131	Porzia	12.9	X	219.81512	248.08793	100.67135	3.22981	0.2860192	0.29626957	2.23	1.59	2.87	Mc	3 14.5	16.9
1134	Kepler	14.1	X	320.27295	332.90758	5.77231	15.32317	0.4700013	0.22514521	2.68	1.42	3.93	Mc	5 6.6	17.4
1139	Atami	12.5	X	258.49434	206.66627	213.32183	13.08419	0.2556030	0.36261844	1.95	1.45	2.45	Mc	7 15.6	15.2
1170	Siva	12.2	X	179.33786	59.47725	0.85268	22.16933	0.3014276	0.27807852	2.32	1.62	3.03	Mc	5 2.9	16.8
1198	Atlantis	14.4	X	216.63787	84.59844	259.51030	2.72469	0.3353958	0.29182731	2.25	1.50	3.01	Mc	3 4.0	18.7
1204	Renzia	12.0	X	155.50389	313.73076	7.53661	1.87913	0.2936212	0.28936295	2.26	1.60	2.93	Mc	—	—
1293	Sonja	13.5	X	159.54642	99.78066	236.36483	5.36215	0.2750439	0.29635916	2.23	1.62	2.84	Mc	1 9.3	16.8
1310	Villigera	11.5	X	89.66561	88.90002	357.17991	21.06162	0.3571809	0.26657688	2.39	1.54	3.25	Mc	3 28.9	14.3
1316	Kasan	13.2	X	153.15586	148.70066	238.19983	23.94877	0.3156449	0.26299062	2.41	1.65	3.17	Mc	3 6.2	17.9
1374	Isora	13.3	X	151.96731	61.06675	302.47555	5.29555	0.2776725	0.29182029	2.25	1.63	2.88	Mc	2 6.8	16.6
1468	Zomba	12.8	X	159.44880	23.14608	308.90908	9.94082	0.2711005	0.30283738	2.20	1.60	2.79	Mc	1 4.5	16.0
1474	Beira	12.5	X	325.03303	84.00153	323.39235	26.68167	0.4886530	0.21764301	2.74	1.40	4.07	Mc	8 30.4	14.0
1508	Kemi	12.0	X	292.72955	93.46936	13.85235	28.72396	0.4183509	0.21384317	2.77	1.61	3.93	Mc	10 6.2	14.8
1565	Lemaître	12.6	X	249.09166	116.39358	261.13868	21.49768	0.3485651	0.26645277	2.39	1.56	3.23	Mc	5 4.4	17.2
1593	Fagnes	13.1	X	10.34505	185.35259	120.01342	9.98061	0.2816472	0.29701483	2.22	1.60	2.85	Mc	10 7.3	14.7
1640	Nemo	13.3	X	59.02778	354.79712	355.43243	7.10894	0.3427571	0.28463038	2.29	1.50	3.07	Mc	—	—
1747	Wright	13.6	X	72.10563	340.48543	268.37641	21.41517	0.1103837	0.44105046	1.71	1.52	1.90	Mc	9 20.9	16.0
1922	Zulu	12.4	X	98.99513	31.43974	226.52601	35.44363	0.4820188	0.16950702	3.23	1.67	4.79	Ja	11 15.6	18.5
1951	Lick	14.2	X	342.84485	140.58752	130.74006	39.09434	0.0615016	0.60114851	1.39	1.30	1.48	Mc	5 1.5	16.3
2044	Wirt	13.2	X	69.10684	50.43790	53.62336	23.97156	0.3452519	0.26853950	2.38	1.56	3.20	Mc	4 6.1	15.8
2055	Dvořák	12.9	X	134.41659	244.14298	340.40874	21.49509	0.3117788	0.28084898	2.31	1.59	3.03	Mc	10 20.5	17.6
2064	Thomsen	12.6	X	211.42011	2.76226	302.14150	5.69545	0.3297563	0.30642017	2.18	1.46	2.90	Mc	1 13.9	16.6
2074	Shoemaker	13.9	X	94.88728	205.64007	207.26688	30.07401	0.0818902	0.40817404	1.80	1.65	1.95	Mc	—	—
2077	Kiangsu	13.6	X	48.74271	344.22622	69.46052	28.08573	0.2950173	0.27749813	2.33	1.64	3.01	Mc	—	—
2078	Nanking	13.0	X	304.58390	99.42021	286.97596	20.16526	0.3750125	0.27032261	2.37	1.48	3.26	Mc	7 11.9	15.3
2099	Öpik	15.1	X	182.87109	159.37204	218.80425	26.95730	0.3606103	0.28183611	2.30	1.47	3.13	Mc	3 21.6	19.8
2204	Lyyli	12.2	X	320.39179	284.12619	159.94681	20.62397	0.4047842	0.23640063	2.59	1.54	3.64	Mc	12 15.5	13.7
2253	Espinette	12.8	X	268.02320	175.84805	143.91571	3.88039	0.2782003	0.28560569	2.28	1.65	2.92	Mc	3 15.8	16.6
2335	James	13.6	X	357.93360	79.59282	19.90117	36.30699	0.3601609	0.31854003	2.12	1.36	2.89	Mc	—	—
2423	Ibarruri	13.3	X	21.75040	80.53776	264.94711	4.05666	0.2829195	0.30447012	2.19	1.57	2.81	Mc	12 24.2	15.6
2629	Rudra	15.1	X	341.67720	280.72851	343.44195	23.44210	0.2289328	0.42930954	1.74	1.34	2.14	Mc	3 7.8	15.8
2744	Birgitta	14.7	X	37.63615	43.96932	315.53986	6.74455	0.3323194	0.28225780	2.30	1.54	3.07	Mc	—	—
2937	Gibbs	13.4	X	192.05786	71.85475	265.68338	21.75964	0.3027769	0.27880328	2.32	1.62	3.02	Mc	2 1.6	18.0
2968	Iliya	14.9	X	286.14086	34.39510	274.29207	9.15471	0.3114461	0.27081062	2.37	1.63	3.10	Mc	3 10.0	18.8
3040	Kozai	13.8	X	45.90667	290.22181	143.49160	46.65096	0.2002042	0.39463967	1.84	1.47	2.21	Mc	—	—
3163	Randi	14.0	X	276.70882	121.65147	194.01199	3.08939	0.3347232	0.26610762	2.39	1.59	3.20	Mc	3 13.5	18.0
3198	Wallonia	13.1	X	81.73240	40.48618	83.56624	17.96463	0.2389472	0.30619610	2.18	1.66	2.70	Mc	4 28.8	15.6
3255	Tholen	13.4	X	22.49676	79.44184	337.03290	21.36085	0.3621638	0.26956773	2.37	1.51	3.23	Mc	—	—
3267	Glo	12.8	X	169.40382	307.75525	110.45032	24.03458	0.2959051	0.27738313	2.33	1.64	3.02	Mc	5 12.6	17.4
3270	Dudley	14.2	X	199.37025	326.97412	146.90963	27.68732	0.3295815	0.31270118	2.15	1.44	2.86	Mc	7 31.9	18.3
3287	Olmstead	14.2	X	289.60144	95.78975	213.23918	12.07906	0.3005354	0.27092361	2.37	1.65	3.08	Mc	3 16.7	18.1
3343	Nedzel	13.2	X	286.97681	229.75826	43.43620	25.00254	0.3113574	0.27356282	2.35	1.62	3.08	Mc	2 11.2	17.6
3392	Setouchi	13.8	X	64.38546	239.89860	266.77659	26.32903	0.2807221	0.31495279	2.14	1.54	2.74	Mc	4 18.6	16.0
3397	Leyla	13.4	X	230.52112	95.68964	25.64932	21.99391	0.2967089	0.27332935	2.35	1.65	3.05	Mc	9 15.7	17.4
3401	Vanphilos	12.4	X	283.10803	108.56428	322.33335	21.80194	0.3582522	0.27015869	2.37	1.52	3.22	Mc	8 16.4	15.0
3402	Wisdom	15.0	X	305.23436	303.81181	357.83500	4.85280	0.2798023	0.31674238	2.13	1.54	2.73	Mc	3 23.7	17.7
3443	Leetsungdao	13.1	X	144.21110	112.42488	184.57444	12.70886	0.3063435	0.26622521	2.39	1.66	3.13	Mc	—	—
3496	Arieso	15.3	X	263.04376	283.64455	129.41596	29.71350	0.4575643	0.22037456	2.71	1.47	3.96	Mc	6 25.8	20.4
3552	Don Quixote	12.9	X	129.26137	316.56176	349.92866	31.09373	0.7088078	0.11200150	4.26	1.24	7.28	Jc	1 18.4	21.1
3581	Alvarez	12.2	X	249.66998	107.66128	217.42057	28.86314	0.4058485	0.21323306	2.77	1.65	3.90	Mc	2 28.1	18.0
3635	Kreutz	14.9	X	127.30253	249.11485	235.34132	19.22172	0.0845368	0.40999713	1.79	1.64	1.95	Mc	5 25.0	16.4
3674	Erbisbühl	12.1	X	327.28356	98.06471	296.84204	21.02595	0.3753754	0.27172093	2.36	1.47	3.25	Mc	9 20.7	13.7
3688	Navajo	15.1	X	353.38393	137.79145	19.98713	2.55726	0.4776642	0.17015026	3.23	1.68	4.77	Ja	—	—
3737	Beckman	12.5	X	30.84740	85.41333	288.18610	20.13180	0.3961574	0.26396698	2.41	1.45	3.36	Mc	—	—
3800	Karayusuf	15.1	X	226.72574	115.71759	95.44168	14.84726	0.0758039	0.49729931	1.58	1.46	1.70	Mc	—	—
3833	Calingasta	15.3	X	114.08211	174.17473	170.13654	12.01852	0.3893339	0.30293031	2.20	1.34	3.05	Mc	—	—
3858	Dorchester	13.8	X	287.92364	335.35548	347.91469	7.70869	0.2431820	0.30430785	2.19	1.66	2.72	Mc	4 6.7	16.7
3920	Aubignan	13.0	X	212.72275	237.66714	116.35032	9.04133	0.2715587	0.29116463	2.25	1.64	2.87	Mc	3 18.4	17.0
4205	David Hughes	14.5	X	293.86555	109.98753	276.53021	16.48052	0.1492703	0.43441676	1.73	1.47	1.98	Mc	8 8.2	15.5
4276	Clifford	14.7	X	310.85547	3.65561	76.84980	21.01929	0.2033092	0.34593413	2.01	1.60	2.42	Mc	12 31.1	15.5
4435	Holt	13.4	X	349.87673	110.54126	330.75324	21.93867	0.3340332	0.27946741	2.32	1.54	3.09	Mc	—	—
4451	Grieve	12.1	X	269.57682	110.30024	219.33869	27.80387	0.3839312	0.23458282	2.60	1.60	3.60	Mc	3 19.5	17.1
4558	Janesick	12.6	X	29.47732	94.32827	254.83136	22.18323	0.3625125	0.30250480	2.20	1.40	2.99	Mc	—	—
4587	Rees	15.3	X	54.40076	84.02070	180.35253	24.63532	0.5089963	0.22751619	2.66	1.30	4.01	Mc	11 5.7	20.0
4775	Hansen	13.8	X	109.88151	7.81702	336.49000	9.27100	0.4526203	0.26593595	2.39	1.31	3.48	Mc	—	—
4910	Kawasato	13.4	X	290.75168	155.08498	180.01110	4.99916	0.3253488	0.25854947	2.44	1.65	3.23	Mc	4 22.6	17.0
4995	Griffin	13.5	X	73.23653	89.01123	321.97342	20.60728	0.3115732	0.27511351	2.34	1.61	3.07	Mc	—	—
5038	Overbeek	13.8	X	267.87472	219.63584	65.64403	10.92507	0.2812758	0.28041537	2.31	1.66	2.96	Mc	2 4.4	17.9
5066	Garradd	14.1	X	179.57192	184.69942	82.30223	41.44184	0.1543821	0.36577407	1.94	1.64	2.24	Mc	—	—
5164	Mullo	13.1	X	62.28511	67.54723	53.75856	19.26583	0.4974260	0.13865135	3.70	1.86	5.54	Jc	5 16.2	17.9

ELEMENTS AND OPPOSITION DATES OF SOME UNUSUAL MINOR PLANETS

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
5201 Ferraz–Mello	14.9	X	158.09033	117.31711	15.96378	3.27624	0.4498764	0.15703969	3.40	1.87	4.93	Ja	7 29.6	21.5
5230 Asahina	13.2	X	16.54548	266.43413	195.19753	20.68130	0.3746900	0.26529549	2.40	1.50	3.30	Mc	—	—
5246 Migliorini	14.4	X	228.94434	140.43609	180.91785	5.62560	0.2834403	0.29708425	2.22	1.59	2.85	Mc	2 13.1	18.4
5261 Eureka	16.1	X	113.51277	95.47508	245.03435	20.28038	0.0646875	0.52410758	1.52	1.42	1.62	MT	—	—
5275 Zdislava	13.8	X	259.17453	108.60602	236.07293	6.05736	0.2545025	0.30223270	2.20	1.64	2.76	Mc	4 6.3	17.2
5324 Lyapunov	15.5	X	232.54308	321.10068	352.25145	19.61489	0.6048765	0.19102424	2.99	1.18	4.79	Ja	2 15.3	22.0
5335 Damocles	13.3	X	270.62120	191.19853	314.00503	61.58532	0.8658355	0.02415626	11.85	1.59	22.11	Jc	8 12.0	26.0
5349 Paulharris	13.0	X	349.62056	81.16898	1.32223	28.48587	0.4678660	0.21210540	2.78	1.48	4.09	Mc	—	—
5370 Taranis	15.1	X	255.37881	161.29737	177.79934	19.16266	0.6369964	0.16263521	3.32	1.21	5.44	Jc	3 17.1	21.7
5392 Parker	12.8	X	286.42317	96.72755	56.09314	22.05650	0.3438789	0.27392635	2.35	1.54	3.16	Mc	—	—
5407 1992 *AX*	14.0	X	220.31733	108.73006	117.74052	11.39065	0.2776563	0.39550725	1.84	1.33	2.35	Mc	—	—
5510 1988 RF_7	13.5	X	41.10376	234.61747	109.22278	5.68451	0.2443506	0.30401511	2.19	1.66	2.73	Mc	—	—
5585 Parks	14.0	X	318.67203	76.16354	264.82694	28.59373	0.3995557	0.22078224	2.71	1.63	3.79	Mc	5 27.5	17.1
5621 Erb	14.0	X	325.95350	5.28277	278.92783	5.54529	0.3860984	0.28218624	2.30	1.41	3.19	Mc	3 10.8	16.9
5642 Bobbywilliams	14.1	X	266.62077	39.15496	310.07220	24.96145	0.3332377	0.27983810	2.31	1.54	3.09	Mc	3 30.9	18.7
5649 Donnashirley	14.6	X	307.79143	62.57785	3.36542	21.72952	0.3359770	0.28603894	2.28	1.51	3.05	Mc	10 5.3	15.4
5682 Beresford	13.7	X	303.92613	138.58208	212.76720	7.96235	0.2990754	0.28324899	2.30	1.61	2.98	Mc	6 2.5	16.3
5720 Halweaver	13.7	X	299.20215	82.26909	47.74215	23.47005	0.3073686	0.28393284	2.29	1.59	3.00	Mc	—	—
5732 1988 *WC*	14.7	X	269.85586	253.43684	240.51305	22.44677	0.4049561	0.29767705	2.22	1.32	3.12	Mc	10 18.7	17.4
5738 Billpickering	15.0	X	327.00037	246.34749	239.29475	21.77769	0.4804495	0.21806088	2.73	1.42	4.05	Mc	—	—
5817 Robertfrazer	12.9	X	150.90776	82.78069	340.46872	21.10940	0.3406258	0.26388351	2.41	1.59	3.23	Mc	4 17.6	17.6
5867 1988 *RE*	15.2	X	161.10561	105.57536	202.13930	35.06940	0.2520768	0.40099475	1.82	1.36	2.28	Mc	—	—
5870 Baltimore	13.3	X	22.19819	272.21655	153.65843	28.96485	0.4196273	0.21129019	2.79	1.62	3.96	Mc	—	—
5892 Milesdavis	13.7	X	269.59652	290.91810	153.65364	4.59143	0.2996752	0.26707709	2.39	1.67	3.10	Mc	8 27.4	16.6
5929 Manzano	13.5	X	332.22720	277.81913	126.31931	23.01849	0.3033439	0.27214508	2.36	1.64	3.07	Mc	12 9.4	15.3
5999 Plescia	14.5	X	5.00220	71.40346	71.13062	23.16963	0.3061081	0.28630085	2.28	1.58	2.98	Mc	—	—
6041 Juterkilian	14.3	X	22.03903	102.56644	199.43737	9.90613	0.3253217	0.25771477	2.45	1.65	3.24	Mc	10 21.9	16.6
6042 Cheshirecat	12.9	X	295.37291	286.15909	88.60790	15.88657	0.4575468	0.18609470	3.04	1.65	4.43	Mc	6 3.8	17.5
6130 Hutton	16.6	X	68.83071	189.61823	139.33565	23.75223	0.5419220	0.19209027	2.97	1.36	4.59	Mc	—	—
6144 Kondojiro	11.6	X	224.25115	96.41298	117.08763	5.88337	0.3599898	0.09468906	4.77	3.05	6.48	Jc	11 27.7	19.2
6170 Levasseur	13.5	X	99.02070	103.69828	11.76966	22.57968	0.3196490	0.27337077	2.35	1.60	3.10	Mc	5 8.3	17.1
6172 Prokofeana	15.2	X	120.92605	194.20177	218.48986	15.88904	0.4384186	0.23929874	2.57	1.44	3.70	Mc	3 31.7	19.7
6183 Viscome	13.8	X	213.15513	116.34754	274.66795	19.68655	0.2892509	0.28158451	2.31	1.64	2.97	Mc	4 24.4	18.4
6261 Chione	14.3	X	112.99966	293.35090	163.74477	21.85309	0.3502043	0.27279560	2.35	1.53	3.18	Mc	5 15.8	18.4
6318 Cronkite	15.8	X	246.13022	12.23632	71.07633	25.83430	0.4609178	0.24692157	2.52	1.36	3.68	Mc	7 17.3	20.8
6322 1991 *CQ*	16.3	X	225.06094	297.59202	173.71046	28.34472	0.4680481	0.24614312	2.52	1.34	3.70	Mc	8 4.5	21.6
6386 Keithnoll	12.7	X	61.70525	268.05801	119.81268	8.73480	0.3009570	0.28783008	2.27	1.59	2.96	Mc	—	—
6411 Tamaga	13.1	X	351.81272	272.30732	157.22657	28.60206	0.4169898	0.21458083	2.76	1.61	3.92	Mc	—	—
6444 Ryuzin	14.2	X	209.23499	269.15365	98.00496	6.05947	0.3049336	0.29609205	2.23	1.55	2.91	Mc	3 30.9	18.3
6446 Lomberg	15.0	X	223.49474	253.51695	157.02124	23.57980	0.2964767	0.27961936	2.32	1.63	3.00	Mc	6 4.8	19.6
6487 Tonyspear	13.6	X	78.03607	92.89663	187.46308	21.27264	0.3053448	0.27247348	2.36	1.64	3.08	Mc	11 27.2	17.8
6490 1991 NR_2	14.6	X	323.49106	29.19540	286.49634	17.17882	0.4068535	0.22707196	2.66	1.58	3.74	Mc	4 18.9	18.1
6500 Kodaira	12.7	X	123.38735	255.40587	186.10592	29.32528	0.4174042	0.21563618	2.75	1.60	3.90	Mc	5 10.5	18.0
6523 Clube	15.1	X	355.70714	284.95332	354.75496	26.62951	0.4173818	0.22869049	2.65	1.54	3.75	Mc	5 2.7	17.3
6564 Asher	16.2	X	116.48022	330.50079	194.56593	45.29212	0.2658022	0.38179092	1.88	1.38	2.38	Mc	7 31.2	20.2
6585 O′Keefe	14.4	X	0.63545	60.29906	0.52905	22.36700	0.3575031	0.26986739	2.37	1.52	3.22	Mc	—	—
6847 Kunz–Hallstein	14.3	X	52.63548	53.29807	48.46273	24.57914	0.2895382	0.27871902	2.32	1.65	2.99	Mc	1 8.9	16.1
6874 1994 JO_1	13.8	X	13.15885	224.21332	78.19504	7.57923	0.2819260	0.29389052	2.24	1.61	2.87	Mc	10 7.3	15.4
6909 Levison	13.8	X	324.41285	75.46302	308.28140	38.01439	0.4670294	0.21919320	2.72	1.45	4.00	Mc	7 31.2	15.5
7002 Bronshten	14.8	X	274.83100	144.11564	193.19276	4.58351	0.3327321	0.27243698	2.36	1.57	3.14	Mc	4 7.9	18.5
7079 Baghdad	14.9	X	32.46110	121.52837	202.67045	3.88607	0.2952749	0.28513039	2.29	1.61	2.96	Mc	12 7.3	17.7
7096 Napier	15.0	X	68.31143	257.98156	146.50263	11.15013	0.5022066	0.21282407	2.78	1.38	4.17	Mc	2 5.2	17.1
7267 Victormeen	13.8	X	266.43339	130.27539	359.27675	22.59797	0.3366920	0.27319277	2.35	1.56	3.14	Mc	10 11.8	17.0
7304 Namiki	13.8	X	121.67701	114.76034	109.39929	9.60421	0.4237883	0.23252487	2.62	1.51	3.73	Mc	10 26.8	19.1
7330 Annelemaître	13.4	X	273.54739	252.96887	191.08968	21.63460	0.3009938	0.27214541	2.36	1.65	3.07	Mc	8 28.1	16.7
7345 Happer	14.7	X	186.41543	281.26885	68.35298	3.67853	0.3221131	0.25661167	2.45	1.66	3.24	Mc	2 25.0	19.2
7369 Gavrilin	13.3	X	302.82764	113.11191	278.24109	21.81067	0.3195441	0.27008553	2.37	1.61	3.13	Mc	7 22.6	15.9
7445 Trajanus	14.8	X	252.51290	109.80299	226.54419	1.18549	0.2435889	0.30263381	2.20	1.66	2.73	Mc	3 23.0	18.3
7467 1989 WQ_1	15.8	X	271.04952	41.76788	69.07082	15.89814	0.1265453	0.46333002	1.65	1.44	1.86	Mc	—	—
7505 Furusho	12.3	X	316.89456	287.90655	86.49093	6.37596	0.3816187	0.23018885	2.64	1.63	3.64	Mc	7 16.8	14.5
7604 Kridsadaporn	13.3	X	228.83842	266.20229	147.23577	20.44803	0.5738436	0.17952635	3.11	1.33	4.90	Ja	6 2.2	20.0
7723 Lugger	13.9	X	267.38749	267.56575	110.98344	6.06337	0.3020611	0.28358766	2.29	1.60	2.99	Mc	5 27.8	17.3
7747 Michałowski	13.7	X	283.44923	28.65140	289.30106	5.05341	0.2747096	0.28370441	2.29	1.66	2.92	Mc	3 23.9	17.3
7778 Markrobinson	13.2	X	168.14739	97.35918	224.47067	19.54607	0.3288667	0.26778613	2.38	1.60	3.17	Mc	1 4.9	17.6
7816 Hanoi	15.0	X	216.05348	170.88249	222.95391	2.38678	0.2953499	0.28018869	2.31	1.63	3.00	Mc	5 5.3	19.2
7818 Muirhead	13.9	X	177.20444	254.62650	160.46245	21.74897	0.3501010	0.27554638	2.34	1.52	3.16	Mc	5 10.6	18.7
7870 1987 UP_2	13.8	X	8.31828	156.33427	240.00256	3.50324	0.2724830	0.29374047	2.24	1.63	2.85	Mc	—	—
8251 Isogai	15.3	X	7.42745	233.16517	169.16314	3.21222	0.2633909	0.29135702	2.25	1.66	2.85	Mc	—	—
8256 Shenzhou	13.7	X	49.15018	21.76407	42.17906	6.84500	0.2487656	0.30259039	2.20	1.65	2.74	Mc	—	—
8355 Masuo	14.3	X	329.38135	196.35362	154.14001	7.70492	0.2885784	0.27600603	2.34	1.66	3.01	Mc	7 30.0	15.5
8373 Stephengould	14.1	X	330.21284	55.40706	88.86048	40.78298	0.5545046	0.16582831	3.28	1.46	5.10	Jc	—	—
8444 Popovich	14.0	X	80.04077	347.04442	353.02343	1.94025	0.2691945	0.28871330	2.27	1.66	2.88	Mc	—	—
8651 Alineraynal	14.5	X	78.14519	106.18659	271.42513	2.03545	0.2780080	0.28359252	2.29	1.66	2.93	Mc	—	—
9082 Leonardmartin	14.0	X	348.67826	280.99371	51.44952	30.34159	0.4280251	0.21790788	2.73	1.56	3.91	Mc	10 4.4	16.0
9292 1982 UE_2	15.1	X	337.39428	324.83985	39.40327	4.34415	0.2846994	0.30280416	2.20	1.57	2.82	Mc	10 12.2	15.4
9551 Kazi	15.9	X	129.33338	5.81598	20.35246	8.83289	0.4198416	0.23080968	2.63	1.53	3.74	Mc	3 10.7	20.4
9564 Jeffwynn	13.9	X	185.13376	121.62787	187.07087	22.30149	0.3175430	0.27524343	2.34	1.60	3.08	Mc	1 2.0	18.5
9572 1988 RS_6	15.6	X	11.79208	144.39865	187.28058	1.14169	0.2535915	0.30065504	2.21	1.65	2.77	Mc	11 12.5	17.1
9671 Hemera	13.9	X	347.65942	340.91238	212.06974	4.83327	0.4353037	0.22306683	2.69	1.52	3.86	Mc	—	—
9767 Midsomer Norton	16.1	X	250.60256	231.14612	331.33629	21.47671	0.5686615	0.15821633	3.39	1.46	5.31	Jc	11 13.9	22.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
9773 1993 MG_1	13.7	X	131.71613	15.55335	277.51875	14.70340	0.3886174	0.22464994	2.68	1.64	3.72	Mc	—	—
9881 1994 SE	15.8	X	172.35034	275.04121	61.05065	8.08064	0.4109958	0.27511128	2.34	1.38	3.30	Mc	2 3.8	20.3
9969 Braille	15.9	X	41.86769	356.21433	241.93655	28.99205	0.4332307	0.27506533	2.34	1.33	3.36	Mc	8 29.2	19.4
9992 1997 TG_{19}	14.7	X	225.74062	234.86851	42.97403	2.59343	0.2920130	0.30799900	2.17	1.54	2.81	Mc	—	—
10051 Albee	14.6	X	242.88970	242.98147	158.91184	21.85478	0.3447104	0.28410167	2.29	1.50	3.08	Mc	6 5.0	19.1
10295 Hippolyta	16.6	X	328.58056	222.89202	21.65608	19.23884	0.3332886	0.35514765	1.97	1.32	2.63	Mc	1 25.6	19.7
10416 Kottler	14.5	X	219.76883	251.55848	257.54609	20.29925	0.3984490	0.29349907	2.24	1.35	3.14	Mc	9 13.9	19.0
10502 Armaghobs	15.0	X	179.44165	263.21764	170.19503	21.92886	0.3189688	0.28114094	2.31	1.57	3.04	Mc	5 31.8	19.7
10548 1992 PJ_2	14.5	X	267.70213	83.58143	211.58312	5.60134	0.3223995	0.26316987	2.41	1.63	3.19	Mc	2 10.1	18.8
10578 1995 LH	14.3	X	309.58915	267.81103	48.46072	11.43427	0.4089835	0.22307073	2.69	1.59	3.79	Mc	4 12.6	18.1
10984 Gispen	14.6	X	302.98559	82.63091	202.50516	5.87869	0.3276459	0.30850883	2.17	1.46	2.88	Mc	2 20.8	17.9
11318 1994 XZ_4	16.7	X	126.74260	343.38942	65.46747	9.88063	0.4312400	0.23549914	2.60	1.48	3.72	Mc	4 6.6	21.4
11466 Katharinaotto	15.1	X	132.82135	30.39076	293.97937	5.87140	0.3147205	0.28631259	2.28	1.56	3.00	Mc	—	—
11836 Eileen	13.7	X	353.20908	289.87385	131.67719	22.48577	0.3501788	0.27423475	2.35	1.52	3.17	Mc	—	—
12008 Kandrup	13.1	X	21.90393	344.96002	263.31923	29.74421	0.3161137	0.34936732	2.00	1.37	2.63	Mc	7 11.5	13.8
12009 1996 UE	15.1	X	244.70712	303.45967	41.96804	4.15574	0.2789919	0.30326134	2.19	1.58	2.81	Mc	3 27.9	18.7
12198 1980 PJ_1	14.6	X	323.93982	130.32493	278.62205	4.54762	0.2408230	0.31407698	2.14	1.63	2.66	Mc	11 26.6	15.2
12520 1998 HV_{78}	14.6	X	203.78210	101.87060	252.51977	4.80500	0.2934308	0.29264984	2.25	1.59	2.91	Mc	3 6.5	18.8
13091 1992 PT_3	15.4	X	232.32751	223.75639	82.68358	2.36575	0.2752369	0.29401840	2.24	1.62	2.86	Mc	1 30.8	19.3
13153 1995 QC_3	15.4	X	331.06007	345.16194	336.80443	5.63908	0.3672419	0.26251489	2.42	1.53	3.30	Mc	5 23.9	17.4
13551 Gadsden	16.4	X	103.51581	238.19081	317.26716	5.27466	0.4272647	0.24586801	2.52	1.45	3.60	Mc	9 8.6	21.1
13819 1999 SX_5	13.6	X	51.84672	269.00391	135.97660	23.48337	0.3032156	0.27918527	2.32	1.62	3.02	Mc	—	—
13920 Montecorvino	14.7	X	111.32959	9.53420	308.40631	3.13755	0.2375806	0.30969128	2.16	1.65	2.68	Mc	—	—
14017 1994 NS	14.8	X	163.80986	79.35155	203.50455	6.48683	0.2388923	0.30886399	2.17	1.65	2.69	Mc	—	—
14211 1999 NT_1	13.9	X	66.66264	91.03255	282.08908	21.35108	0.3189464	0.28141692	2.31	1.57	3.04	Mc	—	—
14222 1999 WS_1	14.0	X	19.02641	84.88173	229.16083	17.17886	0.5454567	0.18091884	3.10	1.41	4.78	Ja	11 26.5	17.5
14223 Dolby	14.7	X	3.43181	250.21536	105.46101	3.83499	0.3012998	0.26970594	2.37	1.66	3.09	Mc	12 3.9	16.5
14309 Defoy	14.3	X	325.52342	136.96401	174.89097	6.50610	0.4475769	0.23454525	2.60	1.44	3.77	Mc	4 17.9	17.1
14461 1993 FL_{54}	14.3	X	302.91920	255.71359	10.82412	21.31493	0.3267038	0.27763891	2.33	1.57	3.09	Mc	2 13.6	18.3
14581 1998 RT_4	14.1	X	358.38083	245.08163	170.23078	31.63881	0.4042294	0.21885065	2.73	1.62	3.83	Mc	—	—
14653 1998 YV_{11}	14.3	X	331.35832	216.52731	77.74143	9.01355	0.3425262	0.28513899	2.29	1.50	3.07	Mc	4 18.4	16.4
14982 1997 TH_{19}	14.4	X	274.63572	324.97058	1.01599	3.31398	0.3209076	0.27713541	2.33	1.58	3.08	Mc	3 25.1	18.3
15504 1999 RG_{33}	12.1	X	287.40624	273.89230	23.43374	34.95344	0.7741840	0.03435747	9.37	2.12	16.63	Jc	3 1.7	23.2
15609 Kosmaczewski	15.4	X	19.77885	163.51648	138.80619	6.73142	0.2900293	0.28806873	2.27	1.61	2.93	Mc	10 20.3	17.4
15673 Chetaev	14.4	X	32.30460	5.22208	319.12934	5.36723	0.2683989	0.30068713	2.21	1.61	2.80	Mc	12 5.2	17.0
15700 1987 QD	14.7	X	132.80702	119.49595	175.44565	26.79232	0.3150398	0.30020936	2.21	1.51	2.90	Mc	—	—
15778 1993 NH	14.8	X	333.93007	81.13993	245.75571	22.26545	0.3123398	0.28177307	2.30	1.58	3.02	Mc	6 20.7	16.3
15790 Keizan	13.6	X	268.86885	293.55755	23.51604	22.86295	0.3169993	0.27187105	2.36	1.61	3.11	Mc	3 19.4	17.8
16142 Leung	14.2	X	230.70401	197.80874	127.80837	8.83800	0.2998509	0.29349552	2.24	1.57	2.91	Mc	2 22.1	18.2
16143 1999 XK_{142}	14.1	X	196.95559	21.83103	311.57360	9.32620	0.3386116	0.28973052	2.26	1.50	3.03	Mc	2 8.1	18.2
16474 1990 QG_3	16.6	X	70.19275	326.02523	32.32977	1.64936	0.3020084	0.29462098	2.24	1.56	2.91	Mc	—	—
16529 Dangoldin	13.6	X	247.16854	251.23634	191.85570	22.68895	0.3144750	0.27516954	2.34	1.60	3.08	Mc	7 26.3	17.8
16588 Johngee	15.2	X	356.44726	16.75938	30.42625	8.10324	0.3853709	0.24046302	2.56	1.57	3.55	Mc	—	—
16591 1992 SY_{17}	14.3	X	143.96335	71.99471	239.53090	8.41232	0.2802716	0.28440367	2.29	1.65	2.93	Mc	—	—
16635 1993 QO	14.3	X	323.76621	77.87167	313.74208	21.93107	0.2851652	0.28278841	2.30	1.64	2.95	Mc	9 16.8	16.1
16695 Terryhandley	17.0	X	191.52696	257.82325	108.67933	4.78435	0.3589772	0.31097304	2.16	1.38	2.93	Mc	3 17.5	21.0
16724 Ullilotzmann	14.1	X	218.85867	276.37368	118.90269	29.82529	0.4396124	0.21147615	2.79	1.56	4.02	Mc	5 18.7	20.1
16851 1997 YU_1	15.3	X	331.14679	91.23695	292.68965	20.77410	0.3657459	0.28350014	2.29	1.46	3.13	Mc	9 22.3	16.8
16868 1998 AK_8	16.6	X	258.75996	11.90465	126.78257	48.23458	0.1821908	0.40890265	1.80	1.47	2.13	Mc	—	—
16958 Klaasen	14.9	X	100.73776	53.64985	152.38217	41.95662	0.2887024	0.34623106	2.01	1.43	2.59	Mc	9 18.2	18.3
17435 di Giovanni	14.4	X	184.29587	298.56400	192.14948	22.09635	0.3155325	0.27017147	2.37	1.62	3.12	Mc	8 7.1	19.2
17493 Wildcat	14.6	X	183.45394	174.99611	274.18464	44.36250	0.4415316	0.21764071	2.74	1.53	3.95	Mc	6 22.3	20.2
17555 Kenkennedy	14.8	X	193.79785	251.90848	161.87579	21.59449	0.3265506	0.27013924	2.37	1.60	3.14	Mc	5 19.1	19.6
17640 Mount Stromlo	13.6	X	345.06235	303.76823	85.66167	25.43361	0.3522674	0.27818482	2.32	1.51	3.14	Mc	12 27.3	14.8
17744 Jodiefoster	15.1	X	231.67449	102.15053	240.68642	3.07537	0.3115748	0.26628378	2.39	1.65	3.14	Mc	3 14.4	19.6
18181 2000 QD_{34}	13.3	X	7.71999	251.95345	330.40323	21.18817	0.2956008	0.27544941	2.34	1.65	3.03	Mc	3 13.7	15.0
18195 2000 QG_{116}	15.9	X	29.32433	259.50050	133.08351	2.01593	0.2609276	0.29125730	2.25	1.67	2.84	Mc	—	—
18284 Tsereteli	14.7	X	185.80789	344.67805	330.89427	4.28334	0.2516454	0.30006176	2.21	1.65	2.77	Mc	1 5.6	18.3
18398 Bregenz	14.9	X	110.51882	102.08842	219.54672	7.83599	0.3094914	0.28116426	2.31	1.59	3.02	Mc	—	—
18499 Showalter	15.8	X	265.38133	193.39463	134.61134	4.28570	0.3498896	0.26652150	2.39	1.55	3.23	Mc	3 20.7	19.9
18514 1996 TE_{11}	15.8	X	345.19729	263.33054	175.36730	24.92037	0.4717921	0.23938193	2.57	1.36	3.78	Mc	—	—
18620 1998 DS_{10}	16.2	X	316.32222	347.82003	103.91284	3.01009	0.3289626	0.28574128	2.28	1.53	3.03	Mc	—	—
18726 1998 KC_2	15.1	X	181.15706	290.89154	219.35957	20.91636	0.3115389	0.27105142	2.36	1.63	3.10	Mc	8 26.5	19.8
18899 2000 JQ_2	14.9	X	328.54135	110.19519	221.81777	22.66240	0.3748920	0.28271421	2.30	1.44	3.16	Mc	6 1.9	16.8
18916 2000 OG_{44}	14.4	X	257.52976	98.87789	301.37146	7.39612	0.5836138	0.13021551	3.86	1.61	6.10	Jc	5 26.2	21.4
18919 2000 OJ_{52}	15.1	X	34.72894	333.60798	345.23844	7.28464	0.4376021	0.23929691	2.57	1.45	3.69	Mc	12 13.7	18.9
19080 Martinfierro	13.9	X	199.11543	281.85420	288.78505	20.65688	0.2826820	0.27975333	2.32	1.66	2.97	Mc	11 29.6	18.0
19127 Olegefremov	15.4	X	214.46127	4.76705	336.80512	5.22709	0.3168914	0.30867200	2.17	1.48	2.86	Mc	2 27.5	19.2
19388 1998 DQ_3	14.5	X	292.09523	288.10733	157.73507	20.52830	0.3400112	0.28366275	2.29	1.51	3.07	Mc	10 4.9	16.4
19402 1998 EG_{14}	14.9	X	44.35319	318.07382	121.45232	3.31586	0.2692328	0.29362207	2.24	1.64	2.85	Mc	—	—
19877 9086 P–L	16.7	X	81.01743	158.81814	214.35669	4.86269	0.3104505	0.29579000	2.23	1.54	2.92	Mc	—	—
19958 1985 RN_4	16.1	X	278.39757	288.85279	53.20963	2.39480	0.3109127	0.26846770	2.38	1.64	3.12	Mc	4 19.8	19.7
20062 1993 QB_3	14.5	X	90.85981	250.69593	146.43838	20.12910	0.2991443	0.29581385	2.23	1.56	2.90	Mc	1 2.5	16.4
20086 1994 LW	16.7	X	267.80066	57.95542	237.17727	21.77112	0.6232196	0.17348743	3.18	1.20	5.17	Jc	1 27.3	23.5
20137 1996 PX_8	15.3	X	16.91906	253.62447	150.56197	5.86847	0.3027467	0.28432960	2.29	1.60	2.98	Mc	—	—
20187 Janapittichová	13.5	X	5.05771	88.30614	285.42720	22.23480	0.2884730	0.27567117	2.34	1.66	3.01	Mc	—	—
20446 1999 JB_{80}	13.9	X	47.47533	277.39491	81.19409	22.55614	0.3367813	0.28214376	2.30	1.53	3.08	Mc	—	—
20461 Dioretsa	13.8	X	66.62222	103.03571	297.83535	160.43028	0.9009280	0.00844588	23.88	2.37	45.39	Jc	11 1.1	29.0
20691 1999 VY_{72}	13.4	X	6.70053	254.03349	110.99712	22.20841	0.3109842	0.27121259	2.36	1.63	3.10	Mc	12 26.9	15.8
20786 2000 RG_{62}	14.6	X	225.46795	191.10705	105.62201	6.85725	0.2452815	0.30273493	2.20	1.66	2.74	Mc	1 12.7	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
20860 2000 VS_{34}	15.6	X	255.15467	115.26318	227.56030	8.62928	0.4423227	0.22006400	2.72	1.52	3.92	Mc	3 25.2	21.0
20898 Fountainhills	11.5	X	101.66347	236.38191	293.03355	44.93269	0.4691059	0.11096096	4.29	2.28	6.30	Jc	7 28.4	18.8
20958 A900 MA	14.4	X	3.65141	187.86519	97.46663	8.16217	0.2957292	0.27727151	2.33	1.64	3.02	Mc	7 28.8	15.0
21001 Trogrlic	15.2	X	267.43221	293.52025	177.49187	21.56013	0.3193354	0.27725521	2.33	1.59	3.07	Mc	9 29.3	17.9
21028 1989 TO	13.4	X	290.60249	98.69170	340.46454	21.80130	0.2979970	0.27626612	2.33	1.64	3.03	Mc	9 17.1	15.6
21030 1989 TZ_{11}	14.9	X	296.93131	280.25664	69.23414	8.44798	0.3622125	0.27302834	2.35	1.50	3.21	Mc	5 12.5	18.1
21104 Sveshnikov	13.8	X	338.34491	83.75861	311.45987	21.35473	0.2964219	0.27498736	2.34	1.65	3.04	Mc	12 4.9	15.7
21183 1994 EO_2	14.2	X	10.12779	77.57599	4.20571	23.08301	0.2840243	0.28321613	2.30	1.64	2.95	Mc	—	—
21228 1995 SC	15.1	X	214.86830	75.70242	317.28728	28.32171	0.4010708	0.21525998	2.76	1.65	3.86	Mc	4 19.3	21.1
21788 1999 SZ_5	14.1	X	261.71246	239.73730	161.28697	22.59923	0.3208710	0.26055510	2.43	1.65	3.21	Mc	6 20.2	18.5
21893 1999 VL_4	14.7	X	29.66009	217.66554	95.64454	2.93384	0.3728732	0.27170323	2.36	1.48	3.24	Mc	11 28.6	17.6
22168 Weissflog	15.7	X	294.44064	34.70579	254.92892	2.97423	0.2694118	0.31149658	2.16	1.57	2.74	Mc	2 24.8	19.0
22283 Pytheas	14.8	X	268.02982	195.73188	146.00354	7.97703	0.2469419	0.30442271	2.19	1.65	2.73	Mc	4 16.1	18.1
22385 Fujimoriboshi	14.7	X	273.73327	321.89021	180.90200	23.26671	0.2875267	0.27814971	2.32	1.66	2.99	Mc	12 2.8	17.4
22449 Ottijeff	13.9	X	303.18854	70.41565	2.39066	21.54005	0.3514961	0.27462899	2.34	1.52	3.17	Mc	9 29.4	15.2
22601 1998 HD_{124}	13.4	X	160.94837	210.02720	101.39591	9.29326	0.2798788	0.28084750	2.31	1.66	2.96	Mc	—	—
22807 1999 RK_7	15.2	X	304.13155	318.33542	15.97008	2.07009	0.2439055	0.30761561	2.17	1.64	2.70	Mc	5 15.2	17.6
22844 1999 RU_{111}	13.5	X	93.21742	269.31489	170.57679	28.40339	0.4362923	0.20156719	2.88	1.62	4.14	Mc	4 19.2	18.2
23250 2000 WQ_{181}	15.0	X	286.00849	315.22669	152.74136	23.52205	0.3062125	0.27766947	2.33	1.61	3.04	Mc	11 6.1	17.5
23621 1996 PA	15.6	X	185.63714	153.38980	143.75753	19.34769	0.2989264	0.37502608	1.90	1.34	2.47	Mc	—	—
23726 1998 HG_{48}	15.0	X	2.20485	245.04720	87.48436	6.35935	0.2468854	0.30959323	2.16	1.63	2.70	Mc	10 28.2	16.3
23738 1998 JZ_1	14.5	X	80.57156	246.75457	41.14159	5.81316	0.2912555	0.31141165	2.16	1.53	2.78	Mc	12 9.7	18.1
23983 1999 NS_{11}	15.1	X	69.88122	232.94173	146.76372	7.08719	0.3081592	0.28241721	2.30	1.59	3.01	Mc	—	—
24029 1999 RT_{198}	13.7	X	354.43027	248.44136	200.61177	21.56028	0.3076734	0.28075808	2.31	1.60	3.02	Mc	—	—
24143 1999 VY_{124}	15.6	X	281.14623	330.49523	9.56813	4.17368	0.2455882	0.30778583	2.17	1.64	2.71	Mc	4 23.1	18.6
24242 1999 XY_{100}	14.6	X	18.98647	14.44430	303.80908	4.72916	0.2648064	0.30829363	2.17	1.60	2.74	Mc	11 6.3	16.6
24447 2000 QY_1	17.4	X	19.71667	264.80234	152.49392	12.24866	0.2348811	0.43547730	1.72	1.32	2.13	Mc	—	—
24495 Degroff	14.9	X	107.63194	133.11009	75.32129	29.73548	0.3608251	0.30805972	2.17	1.39	2.95	Mc	10 15.8	19.5
24643 MacCready	14.1	X	155.41266	114.40264	219.84070	23.29556	0.2955109	0.27846799	2.32	1.64	3.01	Mc	1 4.1	18.2
24682 1990 BH	15.1	X	109.27562	56.32840	125.27905	24.67625	0.3704210	0.29351576	2.24	1.41	3.07	Mc	8 29.1	19.2
24693 1990 SB_2	13.8	X	60.17057	269.01156	153.72576	20.12397	0.3480129	0.26415716	2.41	1.57	3.24	Mc	—	—
24806 1994 RH_9	14.8	X	67.53128	341.37556	353.19180	9.91671	0.3484727	0.26346922	2.41	1.57	3.25	Mc	—	—
24814 1994 VW_1	14.9	X	239.54839	320.26260	109.20906	15.55383	0.2602849	0.35848988	1.96	1.45	2.47	Mc	7 11.5	17.6
24970 1998 FC_{12}	15.0	X	171.79742	150.90351	157.84451	4.48142	0.2446550	0.32878763	2.08	1.57	2.59	Mc	—	—
25037 1998 QC_{37}	15.0	X	40.99274	1.65630	277.16937	4.79295	0.2559125	0.30234957	2.20	1.64	2.76	Mc	10 10.2	17.5
25362 1999 TH_{24}	14.7	X	37.39389	289.14497	186.79798	20.51240	0.3118423	0.28525747	2.29	1.57	3.00	Mc	—	—
25872 2000 MV_1	17.9	X	289.40810	150.06565	177.15054	5.12252	0.3577191	0.32131988	2.11	1.36	2.87	Mc	4 1.8	21.1
25974 2001 FF_{43}	15.6	X	220.37064	44.25702	206.26849	1.54482	0.2851785	0.27758389	2.33	1.66	2.99	Mc	—	—
26050 3167 $T\text{-}_2$	16.0	X	190.00604	179.33096	105.83769	2.30627	0.2902947	0.27626503	2.33	1.66	3.01	Mc	—	—
26120 1991 VZ_2	15.3	X	161.11828	337.16043	23.13056	3.98288	0.3537584	0.27833453	2.32	1.50	3.15	Mc	2 20.1	19.3
26129 1993 DK	13.8	X	166.00695	262.28483	232.15289	20.94449	0.3363245	0.25921868	2.44	1.62	3.26	Mc	7 27.2	18.8
26166 1995 QN_3	16.8	X	134.13702	62.88918	185.72418	14.78771	0.6448245	0.16444354	3.30	1.17	5.43	Jc	11 26.2	24.0
26189 1997 AX_{12}	16.8	X	278.57808	328.15838	109.37852	5.76044	0.4152900	0.22993074	2.64	1.54	3.73	Mc	8 10.5	20.6
26209 1997 RD_1	15.6	X	168.33129	162.39220	169.98620	13.49151	0.3973792	0.22561370	2.67	1.61	3.73	Mc	1 27.8	20.8
26385 1999 RN_{20}	15.1	X	316.70320	198.93342	173.38158	27.08231	0.2692686	0.31222304	2.15	1.57	2.73	Mc	8 7.8	17.0
26677 2001 EJ_{18}	16.7	X	209.33637	148.51267	67.51007	27.74544	0.0187749	0.51598657	1.54	1.51	1.57	Mc	—	—
26822 1988 RG_{13}	14.5	X	30.46259	223.24132	101.13305	8.91866	0.2483588	0.30179113	2.20	1.65	2.75	Mc	12 2.0	17.0
26858 Misterrogers	12.9	X	24.60138	247.86613	203.63831	21.87071	0.3445633	0.27500581	2.34	1.53	3.15	Mc	—	—
26879 Haines	14.3	X	223.27312	95.17929	230.92558	21.32216	0.3483176	0.28047513	2.31	1.51	3.12	Mc	2 9.2	19.2
27057 1998 SP_{33}	14.4	X	198.58400	100.49661	346.95263	4.87188	0.3033491	0.28997639	2.26	1.57	2.95	Mc	6 29.1	18.5
27089 1998 UE_{15}	15.7	X	93.12251	208.66257	120.67538	8.85992	0.2356517	0.30868236	2.17	1.66	2.68	Mc	—	—
27234 1999 RC_2	16.0	X	235.33880	347.90012	330.90789	24.51892	0.1485100	0.47829359	1.62	1.38	1.86	Mc	1 29.1	17.8
27351 2000 DO_{73}	14.6	X	251.84003	341.66749	1.02564	3.60374	0.2750963	0.28465844	2.29	1.66	2.92	Mc	3 30.1	18.3
27657 Berkhey	15.2	X	290.09452	212.70806	139.59910	23.43162	0.2928788	0.29121232	2.25	1.59	2.91	Mc	5 23.9	18.8
27995 1997 WL_2	15.1	X	331.90765	232.37207	71.28042	3.46201	0.2725220	0.31878690	2.12	1.54	2.70	Mc	5 11.3	16.4
28017 1997 YV_{13}	13.6	X	258.44361	131.70330	266.46364	4.98350	0.3889318	0.23571142	2.60	1.59	3.60	Mc	6 5.9	17.9
28085 1998 QO_{98}	14.6	X	195.64598	275.76482	197.32249	19.85883	0.3132821	0.28946742	2.26	1.55	2.97	Mc	7 24.4	19.2
28203 1998 XL_{48}	15.5	X	357.84437	0.77932	43.40074	3.70609	0.3082725	0.30263553	2.20	1.52	2.87	Mc	—	—
28565 2000 EO_{58}	15.0	X	91.79582	150.06045	185.13700	5.33777	0.2849780	0.30650756	2.18	1.56	2.80	Mc	—	—
29180 1990 SW_1	14.4	X	171.72195	194.83146	194.16010	25.41354	0.2952281	0.27278223	2.35	1.66	3.05	Mc	3 28.9	18.5
29407 1996 UW	15.2	X	349.24452	281.74775	39.26938	5.07816	0.3019278	0.27254039	2.36	1.64	3.07	Mc	8 18.6	15.9
29451 1997 RM_1	14.7	X	132.60383	290.28580	2.10324	5.07582	0.3469476	0.26147393	2.42	1.58	3.26	Mc	—	—
29566 1998 FK_5	15.2	X	158.14955	323.23899	21.91897	24.13273	0.1204357	0.41670263	1.78	1.56	1.99	Mc	—	—
29780 1999 CJ_{50}	15.4	X	258.48199	107.84704	348.56979	6.15025	0.3193073	0.29188592	2.25	1.53	2.97	Mc	8 29.9	18.4
30105 2000 FO_3	14.3	X	118.14569	255.46827	62.03108	7.31752	0.3109752	0.30689193	2.18	1.50	2.85	Mc	—	—
30512 2001 HO_8	12.7	X	279.57696	43.28740	128.45927	25.71252	0.3226850	0.13062113	3.85	2.61	5.09	Jc	12 11.8	18.2
30717 1937 UD	14.9	X	98.19019	314.75364	33.05417	8.97060	0.3347860	0.30875681	2.17	1.44	2.89	Mc	—	—
30765 1981 EJ_{48}	15.7	X	162.10185	75.34843	359.44498	21.79358	0.3650465	0.27598383	2.34	1.48	3.19	Mc	5 11.7	20.5
30767 Chriskraft	14.6	X	199.46837	347.52378	55.79043	26.80778	0.2902431	0.27634002	2.33	1.66	3.01	Mc	5 8.5	18.8
30771 1986 PO_2	14.7	X	150.75105	235.45026	140.51858	8.29235	0.3422935	0.26798895	2.38	1.57	3.20	Mc	3 3.1	18.7
30775 Lattu	16.0	X	102.40151	13.10495	355.06110	14.24688	0.4623543	0.21191933	2.79	1.50	4.07	Mc	2 4.4	20.2
30785 Greeley	16.5	X	26.57261	308.94532	13.38063	5.40218	0.3442053	0.30186382	2.20	1.44	2.96	Mc	12 6.8	19.1
30786 Karkoschka	17.1	X	225.09477	214.12615	151.33943	8.28685	0.4462045	0.23013677	2.64	1.46	3.81	Mc	4 8.2	22.4
30800 1989 ST	14.6	X	128.87464	23.09493	292.39486	4.48806	0.2751802	0.28763199	2.27	1.65	2.90	Mc	—	—
30854 1991 VB	17.3	X	312.84008	135.06444	256.10781	6.43111	0.4115677	0.29440069	2.24	1.32	3.16	Mc	7 28.2	18.6
30963 Mount Banzan	14.3	X	192.11714	295.62715	79.47177	22.93325	0.3016325	0.27615611	2.34	1.63	3.04	Mc	4 9.2	19.0
31098 Frankhill	14.7	X	279.33126	89.82654	249.05307	22.53320	0.2825482	0.28394886	2.29	1.64	2.94	Mc	4 13.0	18.6
31180 1997 YX_3	14.4	X	68.69914	86.34324	298.44343	27.97904	0.4199960	0.21217648	2.78	1.61	3.95	Mc	—	—
31318 1998 GQ_{10}	15.4	X	261.79678	265.72624	200.92334	6.25554	0.4029249	0.23854092	2.57	1.54	3.61	Mc	8 30.2	19.5
31367 1998 WB_9	13.9	X	217.28451	256.99241	85.16215	24.23676	0.3159755	0.27706615	2.33	1.59	3.07	Mc	3 16.7	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
31415 1999 AK_{23}	14.7	X	255.18015	196.68763	158.61735	6.84052	0.2690976	0.28724049	2.27	1.66	2.89	Mc	4 20.5	18.4
31832 2000 AP_{59}	14.7	X	79.58809	340.96450	309.86517	6.58408	0.2644879	0.30560280	2.18	1.61	2.76	Mc	12 10.1	18.3
31843 2000 CQ_{80}	15.0	X	51.79931	120.42714	172.83476	20.34147	0.2923038	0.30121905	2.20	1.56	2.85	Mc	11 23.6	18.6
31845 2000 DK_{17}	16.3	X	212.05854	150.72775	148.84203	2.72401	0.2633462	0.31870298	2.12	1.56	2.68	Mc	1 4.0	19.9
31869 2000 EF_{101}	14.5	X	21.64219	242.25209	39.67067	7.00059	0.2695778	0.28806987	2.27	1.66	2.88	Mc	9 17.2	16.2
31881 2000 FL_{15}	16.4	X	10.56285	310.50585	198.62361	21.08010	0.1139690	0.41362179	1.78	1.58	1.99	Mc	—	—
31895 2000 FX_{44}	15.2	X	72.80310	274.23765	59.25323	5.37153	0.2929912	0.30376808	2.19	1.55	2.83	Mc	—	—
31913 2000 GM_{56}	15.1	X	262.29884	291.59464	29.57335	10.80063	0.3035111	0.27651050	2.33	1.63	3.04	Mc	3 15.2	19.2
32039 2000 JO_{23}	14.6	X	90.05093	353.28322	303.81790	6.50318	0.2819186	0.29737228	2.22	1.60	2.85	Mc	12 26.6	18.3
32122 2000 LD_{10}	14.4	X	258.64370	245.38318	87.93838	14.26771	0.3318585	0.27089825	2.37	1.58	3.15	Mc	3 29.4	18.8
32511 2001 NX_{17}	12.8	X	282.63804	345.60569	285.72341	8.95053	0.4286835	0.08754111	5.02	2.87	7.18	Jc	2 3.8	20.4
32575 2001 QY_{78}	15.2	X	25.17900	98.25531	229.10212	2.23223	0.3375136	0.29712723	2.22	1.47	2.97	Mc	12 10.9	17.8
32581 2001 QW_{98}	15.2	X	7.68586	121.09231	177.83770	6.96832	0.2673673	0.29497622	2.24	1.64	2.83	Mc	9 6.3	16.1
32827 1992 DF_{1}	15.0	X	256.60083	268.92670	149.58442	21.18914	0.3114452	0.28605327	2.28	1.57	2.99	Mc	7 7.8	18.8
32897 Curtharris	14.0	X	219.00318	129.24019	132.59277	23.86357	0.3024714	0.27555201	2.34	1.63	3.05	Mc	—	—
32910 1994 TE_{15}	15.0	X	117.52053	131.60837	220.63802	4.79846	0.2545022	0.30564328	2.18	1.63	2.74	Mc	—	—
33060 1997 VY	15.4	X	108.62700	110.26235	251.11819	2.97797	0.3403934	0.25948281	2.43	1.61	3.26	Mc	1 2.0	18.1
33073 1997 WU_{16}	15.3	X	179.30301	122.53010	243.48581	9.78726	0.3104826	0.26805565	2.38	1.64	3.12	Mc	3 3.9	19.8
33836 2000 FB_{39}	15.5	X	202.69558	289.36483	29.02976	14.62411	0.3435369	0.26899012	2.38	1.56	3.19	Mc	2 2.5	20.2
33881 2000 JK_{66}	14.3	X	82.55031	218.84412	123.06715	11.16225	0.2914890	0.29936581	2.21	1.57	2.86	Mc	—	—
34048 2000 OR_{35}	15.8	X	118.39884	356.27685	358.46187	7.86354	0.2605844	0.29970357	2.21	1.64	2.79	Mc	—	—
34706 2001 OP_{83}	14.9	X	203.57242	41.86691	66.57348	8.68324	0.3821274	0.29108871	2.25	1.39	3.12	Mc	7 27.9	19.2
34755 2001 QW_{120}	14.4	X	166.76752	264.35105	145.94057	22.08733	0.3264011	0.27981657	2.32	1.56	3.07	Mc	4 28.8	19.0
34759 2001 QL_{151}	13.9	X	133.85459	81.92766	350.81764	28.16145	0.4267817	0.22015284	2.72	1.56	3.88	Mc	4 21.2	19.4
35056 Cullers	14.0	X	209.85534	59.79291	344.17009	23.50562	0.3225846	0.25802798	2.44	1.66	3.23	Mc	5 2.7	19.1
35368 1997 UB_{8}	14.6	X	215.52881	221.87431	202.68301	22.72887	0.3139719	0.27694840	2.33	1.60	3.06	Mc	6 10.9	19.2
35709 1999 FR_{28}	13.8	X	317.23796	300.69973	16.32715	13.62657	0.3024645	0.27145163	2.36	1.65	3.08	Mc	4 29.2	16.4
36282 2000 CT_{98}	15.3	X	335.61413	358.38075	317.84375	6.90397	0.2603985	0.29520069	2.23	1.65	2.82	Mc	6 18.6	16.6
36779 2000 SW_{1}	15.1	X	343.29635	156.95850	155.72932	7.65252	0.3072585	0.28186285	2.30	1.60	3.01	Mc	6 28.9	16.0
37117 Narcissus	13.3	X	49.42377	180.07959	248.48255	13.80583	0.5536969	0.05468522	6.87	3.07	10.68	Jc	3 12.8	20.9
37152 2000 VV_{56}	13.5	X	98.33842	246.20060	21.74550	7.16099	0.2951909	0.28119762	2.31	1.63	2.99	Mc	11 24.9	17.5
37308 2001 OP_{16}	16.9	X	164.66920	257.44054	58.86853	5.57783	0.3231409	0.31883303	2.12	1.44	2.81	Mc	—	—
37314 2001 QP	14.7	X	279.23709	254.10735	192.06249	25.79880	0.4435045	0.24012747	2.56	1.43	3.70	Mc	8 13.4	19.0
37329 2001 QW_{108}	16.3	X	253.02894	295.78305	128.76209	29.46074	0.4740226	0.23633829	2.59	1.36	3.82	Mc	6 30.6	21.4
37359 2001 UM_{17}	16.3	X	10.71768	151.24300	207.21382	4.59711	0.3314407	0.29773427	2.22	1.48	2.96	Mc	—	—
37367 2001 VC	15.3	X	27.11281	299.39604	63.32977	22.79911	0.3364562	0.30286472	2.20	1.46	2.93	Mc	—	—
37384 2001 WU_{1}	14.9	X	147.74321	82.88504	62.15868	20.28299	0.5647068	0.17481069	3.17	1.38	4.96	Ja	8 15.5	21.8
37479 1130 T_{-1}	16.7	X	326.35736	286.01683	196.32335	7.75598	0.2787085	0.34916839	2.00	1.44	2.55	Mc	—	—
37568 1989 TP	15.6	X	105.68173	107.71809	220.82536	22.75629	0.1003569	0.40955866	1.80	1.62	1.98	Mc	—	—
37596 Cotahuasi	14.7	X	276.65403	300.90511	219.54336	21.53120	0.3182718	0.26495950	2.40	1.64	3.16	Mc	12 20.8	17.2
37671 1994 UY_{11}	14.7	X	59.12053	74.65510	16.68792	21.83246	0.3038727	0.26773448	2.38	1.66	3.11	Mc	2 3.7	16.7
37802 1997 XD_{11}	15.2	X	173.75424	359.56644	310.74387	6.11590	0.3229254	0.29696826	2.22	1.51	2.94	Mc	—	—
38063 1999 FH	14.4	X	349.71244	108.45009	193.22444	11.88172	0.2936043	0.27500875	2.34	1.65	3.03	Mc	7 1.2	15.8
38066 1999 FO_{19}	15.4	X	25.56940	344.56696	312.48481	3.67086	0.3526386	0.32196720	2.11	1.36	2.85	Mc	11 4.4	17.4
38074 1999 GX_{19}	15.1	X	201.49931	113.27790	180.80858	4.74857	0.2655723	0.29800891	2.22	1.63	2.81	Mc	—	—
38181 1999 JG_{124}	14.6	X	120.21012	61.80628	147.50946	23.90191	0.2891735	0.28078239	2.31	1.64	2.98	Mc	10 7.5	18.9
38647 2000 OW_{8}	15.4	X	10.29511	191.03245	146.16542	4.24518	0.2827654	0.28363392	2.29	1.65	2.94	Mc	11 20.6	17.4
38683 2000 QQ_{7}	14.7	X	4.36419	80.05149	281.44718	2.70178	0.2775464	0.28387420	2.29	1.66	2.93	Mc	12 13.7	16.5
39096 2000 WE_{1}	15.0	X	281.86320	287.74734	81.71726	8.70057	0.3848254	0.22953203	2.64	1.63	3.66	Mc	5 22.4	19.2
39235 2000 YH_{55}	14.4	X	27.07191	206.13525	110.14200	14.14824	0.3102216	0.27305332	2.35	1.62	3.08	Mc	11 23.5	17.3
39489 1981 EU_{6}	15.1	X	47.38076	71.61681	245.85568	7.96292	0.2907236	0.27956458	2.32	1.64	2.99	Mc	12 13.2	18.2
39557 Gielgud	16.9	X	165.70093	239.94872	58.52069	5.54949	0.4244663	0.28894187	2.27	1.30	3.23	Mc	—	—
39702 1996 TZ_{10}	15.4	X	300.82569	163.19935	180.54492	7.05116	0.3126341	0.27028669	2.37	1.63	3.11	Mc	5 17.5	18.3
39741 Komm	15.7	X	242.84966	126.25538	225.67038	6.34046	0.3493652	0.30566946	2.18	1.42	2.95	Mc	3 28.3	19.6
39774 1997 GO_{27}	18.4	X	353.32627	139.35369	188.82577	17.89700	0.0710780	0.58156178	1.42	1.32	1.52	Mc	11 4.8	18.3
40245 1998 WO_{7}	16.4	X	107.90427	330.75981	78.23727	45.79224	0.3035167	0.31649464	2.13	1.49	2.78	Mc	3 19.9	20.4
40271 1999 JT	14.7	X	57.32198	253.80474	96.52416	23.84768	0.2747226	0.28366096	2.29	1.66	2.92	Mc	—	—
40310 1999 KU_{4}	16.1	X	267.54641	223.39468	76.36247	8.42323	0.4056348	0.30336732	2.19	1.30	3.08	Mc	2 12.0	20.3
40315 1999 LS	16.2	X	333.41699	184.61360	119.62126	27.27793	0.3057074	0.31418127	2.14	1.49	2.80	Mc	5 23.3	18.6
40430 1999 RL_{28}	16.1	X	44.94146	84.03046	172.43876	20.51624	0.4154724	0.26986669	2.37	1.39	3.36	Mc	10 10.9	19.3
40468 1999 RF_{46}	14.9	X	95.21860	293.91316	321.42607	22.66402	0.3024917	0.27838788	2.32	1.62	3.03	Mc	10 29.3	19.4
40719 1999 SZ_{2}	15.6	X	205.21378	331.61460	356.55014	4.94634	0.2683053	0.29738299	2.22	1.63	2.82	Mc	2 6.8	19.3
41074 1999 VL_{40}	14.2	X	75.91698	246.58711	265.39467	19.90796	0.3093338	0.28586561	2.28	1.58	2.99	Mc	6 6.7	16.7
41223 1999 XD_{16}	13.6	X	74.54234	329.59039	30.24831	11.76615	0.3720449	0.22878746	2.65	1.66	3.63	Mc	—	—
41434 2000 GB_{82}	16.4	X	247.85730	338.53127	33.11014	14.14018	0.0614004	0.47131214	1.64	1.53	1.74	Mc	5 6.3	17.3
41475 2000 PR_{13}	14.9	X	119.35024	228.68911	303.45794	23.17727	0.2774206	0.28425329	2.29	1.66	2.93	Mc	8 10.6	18.8
41588 2000 SC_{46}	13.2	X	169.79508	274.80891	247.26592	20.06695	0.3218541	0.27481760	2.34	1.59	3.10	Mc	8 30.6	18.1
42501 1992 YC	14.9	X	121.65914	129.94214	264.68225	24.57534	0.2816178	0.28561867	2.28	1.64	2.93	Mc	2 5.2	18.4
42531 McKenna	16.1	X	148.67691	344.30141	315.75334	7.08050	0.3260929	0.28076315	2.31	1.56	3.06	Mc	—	—
42609 Daubechies	14.9	X	100.08813	103.79463	149.85583	4.77279	0.2977188	0.27169340	2.36	1.66	3.06	Mc	11 11.3	19.0
42805 1999 JU_{1}	15.4	X	286.60589	215.08444	97.25833	6.24814	0.2513656	0.31126930	2.16	1.61	2.70	Mc	3 25.9	18.6
42887 1999 RV_{155}	15.4	X	351.38295	55.92315	282.37693	2.86299	0.2418229	0.31451953	2.14	1.62	2.66	Mc	10 2.8	16.3
43017 1999 VA_{2}	15.6	X	150.45096	122.87489	232.69983	23.89615	0.2895466	0.28799920	2.27	1.61	2.93	Mc	1 20.5	19.6
44010 1997 UH_{11}	15.0	X	244.98224	282.03458	51.00671	9.70907	0.3010909	0.27450759	2.34	1.64	3.05	Mc	3 17.7	19.3
44168 1998 JJ_{4}	15.1	X	326.84519	117.13321	223.00855	9.85408	0.3271066	0.25962746	2.43	1.64	3.23	Mc	6 24.3	17.1
44200 1998 MJ_{25}	15.0	X	0.79758	122.63917	211.16307	2.06448	0.3206856	0.26074196	2.43	1.65	3.20	Mc	10 23.4	16.1
44619 1999 RO_{42}	15.9	X	37.16653	197.39799	113.76784	5.48842	0.2280835	0.31609064	2.13	1.65	2.62	Mc	11 22.2	18.3
45074 1999 XA_{38}	15.5	X	268.68295	60.49881	276.18267	5.22500	0.2516126	0.29974385	2.21	1.65	2.77	Mc	4 4.1	19.1
45164 1999 XK_{127}	15.8	X	357.84133	187.21645	163.00363	9.15862	0.3513943	0.26899177	2.38	1.54	3.21	Mc	11 24.7	17.5
45251 1999 YN	14.4	X	29.80054	293.90948	121.38991	22.90023	0.3162441	0.27608839	2.34	1.60	3.07	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
45764 2000 LV	14.8	X	162.48859	64.97970	277.41857	6.71126	0.3159468	0.26219481	2.42	1.65	3.18	Mc	1 27.2	18.8
46433 2002 JQ_{67}	15.3	X	176.42231	70.03917	269.02808	5.68567	0.2632492	0.29445985	2.24	1.65	2.83	Mc	1 26.4	18.8
46598 1993 FT_{2}	13.9	X	41.71107	91.63389	3.12496	21.05009	0.2865819	0.27709496	2.33	1.66	3.00	Mc	—	—
46771 1998 HM_{7}	14.6	X	130.68317	280.65581	56.47400	23.55198	0.2992477	0.28106401	2.31	1.62	3.00	Mc	—	—
46773 1998 HZ_{12}	15.1	X	257.97752	160.09388	107.23697	5.76474	0.2758338	0.29134356	2.25	1.63	2.88	Mc	1 2.4	19.0
46780 1998 HH_{52}	14.5	X	346.51564	327.61693	35.61893	7.11829	0.2383568	0.31143535	2.16	1.64	2.67	Mc	11 6.2	15.3
46818 1998 MZ_{24}	14.2	X	106.41689	100.17315	260.84100	21.51134	0.3313644	0.27606670	2.34	1.56	3.11	Mc	—	—
47035 1998 WS	12.8	X	72.69788	94.68931	8.96525	27.49610	0.3948524	0.22782619	2.66	1.61	3.70	Mc	4 7.8	15.8
47199 1999 TY_{204}	15.7	X	8.48226	321.59541	4.24975	4.07506	0.2356648	0.31174614	2.15	1.65	2.66	Mc	10 24.8	17.0
47343 1999 XL_{45}	15.3	X	258.69526	250.25932	68.20566	6.40430	0.2663348	0.29770901	2.22	1.63	2.81	Mc	3 8.7	19.0
47576 2000 AW_{172}	17.3	X	199.00078	184.26003	215.78859	5.49317	0.3265728	0.29697701	2.22	1.50	2.95	Mc	4 30.3	21.3
47581 2000 AN_{178}	15.4	X	294.11987	146.43774	197.83116	7.15869	0.2674348	0.30087520	2.21	1.62	2.80	Mc	5 14.1	18.2
47588 2000 AM_{201}	14.8	X	48.92297	286.18113	142.10055	23.30251	0.2960961	0.27872372	2.32	1.63	3.01	Mc	—	—
47648 2000 CA_{40}	15.2	X	52.20155	226.33649	160.89479	22.10411	0.3044841	0.27181007	2.36	1.64	3.08	Mc	—	—
47834 2000 EN_{114}	13.8	X	25.12648	47.29583	18.15372	23.63600	0.3131207	0.26806257	2.38	1.64	3.13	Mc	—	—
48338 2002 PV_{27}	16.0	X	140.77444	271.42076	158.03437	6.37741	0.3856381	0.23884549	2.57	1.58	3.56	Mc	5 4.6	20.8
48450 1991 NA	15.5	X	36.70065	40.91809	277.58362	11.72673	0.3298315	0.26756266	2.39	1.60	3.17	Mc	12 6.1	18.7
48468 1991 SS_{1}	16.5	X	42.01764	353.98838	37.67344	5.73790	0.3673654	0.26980267	2.37	1.50	3.24	Mc	—	—
48570 1994 EA_{2}	15.9	X	134.86385	326.60773	183.76562	7.99457	0.3002980	0.30098237	2.21	1.54	2.87	Mc	7 30.6	19.8
48621 1995 OC	15.9	X	310.55782	168.03442	171.57360	2.87214	0.2755913	0.30117545	2.20	1.60	2.81	Mc	5 29.8	17.9
48864 1998 HK_{43}	15.6	X	277.43285	78.98725	182.54748	6.33122	0.2856925	0.29088368	2.26	1.61	2.90	Mc	1 8.5	19.5
49385 1998 XA_{12}	13.5	X	119.28729	89.51991	274.95096	20.67601	0.3139972	0.27093503	2.37	1.62	3.11	Mc	1 10.9	16.5
49952 1999 XH_{212}	15.7	X	336.60891	218.02602	119.80785	3.64567	0.2326751	0.30981167	2.16	1.66	2.67	Mc	8 11.8	16.4
50143 2000 AB_{132}	15.6	X	182.90230	271.49255	76.30637	6.62099	0.2798152	0.28755060	2.27	1.64	2.91	Mc	2 16.7	19.5
50354 2000 CX_{70}	15.7	X	179.57541	213.50789	213.60492	5.37806	0.2649572	0.29183385	2.25	1.65	2.85	Mc	5 20.3	19.5
50867 2000 GM_{4}	15.0	X	114.42854	280.17738	189.36437	22.34555	0.2805163	0.28545606	2.28	1.64	2.93	Mc	5 22.3	18.7
51075 2000 GG_{162}	15.1	X	38.64555	294.19137	217.49466	21.83142	0.3172131	0.27668011	2.33	1.59	3.07	Mc	2 13.8	16.9
51157 2000 HB_{57}	15.9	X	150.92154	325.88474	160.61747	3.92923	0.3056026	0.29096338	2.26	1.57	2.94	Mc	7 13.6	20.0
51773 2001 MV	14.2	X	213.88652	95.84832	249.89969	22.16875	0.2965095	0.28482986	2.29	1.61	2.97	Mc	2 23.6	18.9
52007 2002 EQ_{47}	13.4	X	177.02473	53.35383	348.40931	15.16874	0.2230434	0.11177876	4.27	3.32	5.22	Jc	4 19.2	20.4
52297 1991 CH_{2}	14.5	X	86.05280	284.83691	315.25938	27.87972	0.3606650	0.23786112	2.58	1.65	3.51	Mc	9 28.5	19.5
52310 1991 VJ	15.0	X	119.50171	261.86920	71.85731	22.90185	0.3394829	0.27509900	2.34	1.55	3.14	Mc	—	—
52317 1992 BC_{1}	14.3	X	51.47049	273.39085	135.43675	22.84940	0.3321369	0.26862906	2.38	1.59	3.17	Mc	—	—
52453 1994 WC	15.0	X	61.75166	304.92014	38.23023	11.47368	0.3324976	0.26203545	2.42	1.61	3.22	Mc	—	—
52730 1998 HN_{4}	16.1	X	0.15804	266.86685	53.08186	8.25750	0.2959634	0.30676704	2.18	1.53	2.82	Mc	10 9.4	17.0
52800 1998 QT_{60}	13.5	X	331.44891	127.26947	298.72563	21.90071	0.3447093	0.25699683	2.45	1.61	3.29	Mc	—	—
54697 2001 FA_{70}	14.9	X	116.86078	129.34834	168.45062	13.09344	0.3317003	0.26800800	2.38	1.59	3.17	Mc	—	—
54718 2001 HB_{61}	15.2	X	161.99458	239.09025	112.83558	13.38273	0.3400650	0.27845010	2.32	1.53	3.11	Mc	2 9.9	19.2
54754 2001 KJ_{56}	14.1	X	19.33477	290.14886	106.41268	22.84808	0.3548679	0.26371878	2.41	1.55	3.26	Mc	—	—
55043 2001 QL_{59}	14.8	X	128.28876	212.61164	127.59657	5.23248	0.3034852	0.26875208	2.38	1.66	3.10	Mc	—	—
55333 2001 SZ_{117}	15.1	X	148.91162	233.35492	256.95882	5.27788	0.3612926	0.23346614	2.61	1.67	3.56	Mc	7 17.9	20.0
55380 2001 SB_{264}	14.7	X	348.42500	259.42346	287.36494	21.34069	0.3030310	0.27115236	2.36	1.65	3.08	Mc	—	—
55401 2001 SX_{316}	13.9	X	274.39479	268.44980	283.56074	21.24039	0.3150432	0.26486010	2.40	1.64	3.16	Mc	—	—
55757 1991 XN	15.4	X	132.32109	17.94254	64.69185	8.59725	0.2893466	0.27913743	2.32	1.65	2.99	Mc	5 4.8	19.1
55760 1992 BL_{1}	13.3	X	55.75064	287.33020	137.96577	23.10447	0.3441892	0.26923846	2.38	1.56	3.19	Mc	—	—
55825 1995 SD_{4}	16.0	X	60.06676	142.90249	218.64967	3.93758	0.2262197	0.31199566	2.15	1.67	2.64	Mc	—	—
56950 2000 SA_{2}	14.5	X	23.21121	266.63542	23.14303	22.07753	0.2812775	0.28248381	2.30	1.65	2.95	Mc	10 5.8	16.5
57004 2000 SP_{349}	15.1	X	254.31677	235.66315	50.41418	7.75291	0.3192642	0.26670281	2.39	1.63	3.15	Mc	1 25.2	19.6
57047 2001 LG_{1}	14.9	X	214.12924	78.56092	257.44979	8.86247	0.3209474	0.28019048	2.31	1.57	3.06	Mc	2 19.2	19.4
57878 2001 YZ_{148}	15.2	X	198.09575	174.25669	201.90510	7.77716	0.2968569	0.27140328	2.36	1.66	3.06	Mc	4 1.1	19.5
57924 2002 FO_{28}	15.0	X	182.29610	334.83368	63.47708	6.99511	0.3067012	0.26663316	2.39	1.66	3.12	Mc	4 20.1	19.3
58023 2002 VR_{40}	15.0	X	105.11216	246.83089	107.94102	11.51501	0.2962243	0.27413395	2.35	1.65	3.04	Mc	—	—
58046 2002 XA_{14}	15.0	X	177.72741	259.26581	114.96392	21.28627	0.2945630	0.28351699	2.29	1.62	2.97	Mc	3 23.2	19.4
58050 2002 YA	14.3	X	200.73698	64.40367	309.82974	28.76277	0.3755750	0.23213206	2.62	1.64	3.61	Mc	3 17.7	19.9
58070 1034 T_{-2}	16.4	X	58.05571	251.99795	189.90182	6.13477	0.3018434	0.27433287	2.35	1.64	3.05	Mc	—	—
58141 1981 UW_{22}	15.6	X	39.22922	218.73427	107.57799	5.15120	0.2556209	0.29747193	2.22	1.65	2.79	Mc	12 14.7	18.3
58149 1987 SX_{11}	15.1	X	249.96925	236.85049	172.91772	26.13287	0.3801445	0.22651261	2.67	1.65	3.68	Mc	6 16.3	20.3
58175 1990 SE_{15}	15.8	X	75.70955	86.68993	234.76528	5.96943	0.2597060	0.29312411	2.24	1.66	2.83	Mc	—	—
58285 1993 YN	14.9	X	175.59999	107.98692	218.99381	7.38477	0.3142373	0.26052153	2.43	1.66	3.19	Mc	1 18.2	19.2
58325 1994 RE_{11}	16.3	X	226.21631	209.09438	172.29537	14.33202	0.3731009	0.24546625	2.53	1.58	3.47	Mc	4 29.1	21.2
58683 1998 AJ_{10}	15.4	X	28.81185	257.61569	99.67307	4.51094	0.2842956	0.29148917	2.25	1.61	2.89	Mc	—	—
58980 1998 RG_{47}	15.5	X	352.25339	107.52439	215.24669	5.49762	0.2660090	0.29940158	2.21	1.62	2.80	Mc	8 31.3	16.3
59490 1999 JD_{4}	14.3	X	347.55194	76.94039	236.40913	22.37117	0.3034537	0.27232898	2.36	1.64	3.07	Mc	7 9.2	16.0
59836 1999 RN_{44}	15.8	X	65.94799	126.91523	193.77120	12.65339	0.2907617	0.27704801	2.33	1.65	3.01	Mc	—	—
60187 1999 VL_{23}	14.9	X	111.84292	211.59109	222.00176	23.57955	0.2646920	0.28936896	2.26	1.66	2.86	Mc	3 22.1	18.2
60216 1999 VG_{82}	16.4	X	41.59823	96.31232	216.22977	4.34006	0.3148721	0.27251665	2.36	1.61	3.10	Mc	12 3.1	19.5
60689 2000 GG_{37}	16.0	X	179.05628	159.40740	130.76119	8.43635	0.2618472	0.30936799	2.17	1.60	2.73	Mc	—	—
60733 2000 GL_{80}	15.3	X	323.42132	299.47690	35.48052	12.30950	0.3003699	0.28825704	2.27	1.59	2.95	Mc	6 9.7	17.2
60735 2000 GF_{82}	14.9	X	261.70188	277.65039	33.62130	21.73465	0.3299582	0.27449020	2.34	1.57	3.12	Mc	3 8.9	19.4
60886 2000 JB_{10}	16.3	X	159.76603	273.76684	44.52489	5.71441	0.2426197	0.30831326	2.17	1.64	2.70	Mc	—	—
60924 2000 JF_{44}	16.0	X	54.01011	265.08964	26.59838	2.70784	0.2746641	0.29060853	2.26	1.64	2.88	Mc	11 16.4	19.0
61256 2000 OT_{25}	15.9	X	355.58248	275.01193	62.65347	4.48921	0.2909303	0.28407664	2.29	1.63	2.96	Mc	10 18.7	16.8
61343 2000 PC_{5}	15.5	X	87.93207	205.03851	116.41984	9.11745	0.2681446	0.29262542	2.25	1.64	2.85	Mc	—	—
61416 2000 QL_{12}	16.1	X	122.62261	101.73983	130.42662	3.32182	0.2902087	0.29204839	2.25	1.60	2.90	Mc	11 3.0	20.0
61550 2000 QK_{70}	15.6	X	82.85208	98.91826	159.00979	22.90839	0.3044094	0.28676067	2.28	1.58	2.97	Mc	11 8.9	19.8
61799 2000 QC_{184}	15.5	X	268.17384	273.64445	77.96537	3.41065	0.3001244	0.27314513	2.35	1.65	3.06	Mc	4 24.2	19.3
62042 2000 RF_{65}	15.5	X	355.62898	254.53528	0.74121	23.80903	0.2961487	0.27371008	2.35	1.65	3.05	Mc	4 8.1	17.2
62047 2000 RE_{66}	15.9	X	236.22277	214.49407	113.26038	4.33977	0.3391490	0.26494350	2.40	1.59	3.22	Mc	3 1.8	20.4
62268 2000 SQ_{90}	15.1	X	224.04129	72.42286	238.53507	8.86942	0.3330823	0.26408968	2.41	1.60	3.21	Mc	1 29.9	19.8
62730 2000 TE_{59}	15.0	X	12.93089	217.28953	99.13823	9.23003	0.2982556	0.28201558	2.30	1.62	2.99	Mc	10 30.6	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
63160 2000 YN_8	15.9	X	240.30996	206.93356	112.04874	7.76626	0.2550666	0.30519256	2.18	1.63	2.74	Mc	2 21.4	19.6
63164 2000 YU_{14}	15.8	X	84.76014	315.66761	22.15361	3.33024	0.3066020	0.28773004	2.27	1.58	2.97	Mc	—	—
63341 2001 FD_{77}	14.2	X	214.72726	274.45158	27.81393	27.95338	0.3859510	0.23133422	2.63	1.61	3.64	Mc	1 30.8	19.9
63583 2001 QP_{31}	15.2	X	254.64492	186.04035	158.77148	10.78921	0.2834136	0.28225042	2.30	1.65	2.95	Mc	4 6.6	19.1
65335 2002 LR_{58}	14.9	X	175.85450	188.72605	178.53520	20.09414	0.3868888	0.24459540	2.53	1.55	3.51	Mc	3 11.5	19.8
65407 2002 RP_{120}	12.3	X	17.19087	357.71832	39.06732	119.28233	0.9540849	0.00250703	53.67	2.46	104.87	Jc	5 20.5	27.7
65425 2002 TL_{129}	16.6	X	356.90315	20.61047	293.24055	4.88375	0.2395202	0.30964536	2.16	1.65	2.68	Mc	8 28.9	17.4
65433 2002 TX_{238}	15.5	X	125.24487	297.80660	68.29975	7.87458	0.3302190	0.27713203	2.33	1.56	3.10	Mc	1 25.5	18.7
65682 1990 QU_2	16.0	X	137.66374	177.28187	164.24521	7.60743	0.2475765	0.29961694	2.21	1.66	2.76	Mc	—	—
65742 1993 TY_{18}	16.5	X	101.07931	137.46087	185.48405	5.08134	0.2945079	0.29120171	2.25	1.59	2.92	Mc	—	—
65776 1995 SW_3	15.5	X	61.42653	16.06324	336.92930	6.73729	0.3390806	0.27375235	2.35	1.55	3.15	Mc	—	—
65784 Naderayama	15.4	X	241.17218	339.89151	27.97681	4.97634	0.2888068	0.29253788	2.25	1.60	2.90	Mc	4 21.0	19.2
65808 1996 LO_1	15.5	X	349.12824	73.31962	252.60945	20.74477	0.3254482	0.27826467	2.32	1.57	3.08	Mc	8 8.2	17.1
65817 1996 TC_{33}	16.1	X	60.27789	48.31231	248.51398	4.28412	0.2792045	0.28103774	2.31	1.66	2.95	Mc	11 28.8	19.5
65999 1998 ND	15.4	X	221.83335	79.58555	276.49985	22.45574	0.3365505	0.28589752	2.28	1.51	3.05	Mc	3 10.7	20.2
66269 1999 JN_3	14.4	X	20.37976	112.89168	222.53059	20.59887	0.2852293	0.28174310	2.30	1.65	2.96	Mc	12 3.3	17.1
66294 1999 JS_{27}	15.3	X	263.16740	161.86061	131.06153	1.15043	0.3373600	0.25967451	2.43	1.61	3.25	Mc	2 5.9	19.5
66358 1999 JW_{87}	15.6	X	45.84541	159.63868	153.69442	7.46761	0.3135110	0.27985532	2.31	1.59	3.04	Mc	12 10.2	19.0
66419 1999 NR_{13}	14.2	X	96.38216	248.88873	282.16765	20.21670	0.3390590	0.27040312	2.37	1.57	3.17	Mc	7 25.9	18.0
67473 2000 RH_6	16.7	X	176.26133	157.86413	194.02310	4.16827	0.2427489	0.30559160	2.18	1.65	2.71	Mc	2 8.2	20.1
67502 2000 RE_{44}	15.5	X	318.44649	100.39972	259.08172	5.14084	0.3304322	0.27825578	2.32	1.56	3.09	Mc	7 6.4	17.0
67522 2000 RB_{79}	16.4	X	228.22527	141.62100	142.21842	3.67601	0.3073131	0.30691192	2.18	1.51	2.85	Mc	—	—
67729 2000 UQ_{23}	16.8	X	173.99448	199.32323	141.95955	3.67395	0.2497160	0.30393580	2.19	1.64	2.74	Mc	1 25.8	20.3
67865 2000 WG_{23}	15.9	X	225.26548	225.73188	101.60222	7.28893	0.2355764	0.30825581	2.17	1.66	2.68	Mc	2 20.3	19.5
67943 2000 WP_{151}	16.3	X	257.89424	314.19475	41.57827	4.82516	0.2791213	0.31454039	2.14	1.54	2.74	Mc	4 19.2	19.6
68134 2001 AT_{18}	14.2	X	58.51585	119.76968	279.35265	26.60008	0.2838498	0.28644435	2.28	1.63	2.93	Mc	—	—
68569 2001 YE_3	14.9	X	350.78124	252.41780	280.64011	22.05569	0.2930361	0.31005538	2.16	1.53	2.80	Mc	—	—
69045 2002 XN_{59}	14.1	X	210.62954	72.02885	294.41538	21.04075	0.3351638	0.28391529	2.29	1.52	3.06	Mc	3 16.5	18.9
69117 2003 EX_2	15.6	X	132.40176	281.49666	93.46522	5.01506	0.3339709	0.27416878	2.35	1.56	3.13	Mc	2 13.6	19.1
69239 1978 XT	15.7	X	124.54344	147.08873	236.90025	4.22063	0.3764939	0.23828551	2.58	1.61	3.55	Mc	2 23.0	19.9
69260 Tonyjudt	15.0	X	103.84216	274.80577	99.39267	2.17824	0.3842110	0.23571346	2.60	1.60	3.59	Mc	1 25.1	18.4
69274 1989 UZ_1	15.4	X	99.92894	122.43440	237.22974	9.06211	0.3201309	0.28663977	2.28	1.55	3.01	Mc	—	—
69311 Russ	15.3	X	321.36163	305.24977	29.41734	22.65837	0.3340583	0.26957247	2.37	1.58	3.17	Mc	5 23.8	18.0
69466 1996 VZ_5	15.0	X	189.86071	62.03713	74.57768	22.09374	0.3268577	0.26471207	2.40	1.62	3.19	Mc	8 31.7	19.9
69701 1998 HP_{49}	15.9	X	312.25792	147.93362	237.15124	20.18095	0.1104600	0.43854240	1.72	1.53	1.91	Mc	10 5.6	16.9
70055 1999 JN_6	14.8	X	326.04376	148.20878	219.20049	24.04173	0.2998211	0.27483796	2.34	1.64	3.05	Mc	8 7.8	17.2
70056 1999 JJ_8	15.1	X	95.38418	89.04119	209.19800	21.00725	0.2987003	0.28280692	2.30	1.61	2.99	Mc	12 27.7	19.6
70111 1999 LM_7	15.8	X	328.40290	199.45251	129.62670	7.92156	0.3179764	0.26703506	2.39	1.63	3.15	Mc	6 12.6	17.7
71997 2000 WD_{178}	15.9	X	42.18868	263.95004	82.56536	7.23244	0.2995928	0.28396768	2.29	1.61	2.98	Mc	—	—
72044 2000 YH_5	16.0	X	66.34280	285.61993	76.82259	6.18841	0.2660237	0.28802655	2.27	1.67	2.87	Mc	—	—
72204 2000 YV_{133}	15.7	X	352.33879	262.14186	88.76741	5.15447	0.2958718	0.27521363	2.34	1.65	3.03	Mc	10 31.9	16.9
72569 2001 EC_{13}	14.2	X	346.14467	317.05144	71.45264	24.73981	0.2957396	0.27387836	2.35	1.65	3.04	Mc	12 14.0	15.6
73534 Liviasavioli	16.7	X	156.46024	181.21097	152.94369	6.63273	0.2708431	0.30073640	2.21	1.61	2.80	Mc	1 3.2	19.9
73575 4789 P–L	17.3	X	195.54493	269.09363	25.05713	1.05928	0.2850388	0.29872654	2.22	1.58	2.85	Mc	—	—
73673 1986 RX_1	14.7	X	204.37810	2.21186	310.41940	7.03605	0.3624398	0.24126595	2.56	1.63	3.48	Mc	1 25.7	19.7
73681 1989 TL_{18}	16.0	X	63.51501	314.86644	20.05254	11.19504	0.2976904	0.28351710	2.29	1.61	2.98	Mc	—	—
73735 1993 QE_3	16.6	X	315.27930	197.53298	139.79398	3.18381	0.2382119	0.31400092	2.14	1.63	2.65	Mc	6 10.7	18.3
73865 1997 AW	15.8	X	191.38251	203.50768	2.37167	1.73013	0.3680243	0.26886362	2.38	1.50	3.25	Mc	11 11.7	20.3
74217 1998 RB_{73}	14.7	X	55.93943	301.64643	0.05939	7.41768	0.3388855	0.26220209	2.42	1.60	3.24	Mc	12 3.3	18.5
74523 1999 GA_6	16.8	X	123.41739	357.24209	13.12049	9.62530	0.1754117	0.34773602	2.00	1.65	2.35	Mc	—	—
74558 1999 LT_{13}	15.8	X	286.12623	205.84582	118.59181	8.53825	0.2490012	0.30845674	2.17	1.63	2.71	Mc	4 12.2	18.9
74561 1999 LE_{18}	15.6	X	231.95086	253.92263	65.48732	7.67323	0.2595103	0.30170850	2.20	1.63	2.77	Mc	2 17.2	19.5
74564 1999 NY_1	15.7	X	87.67671	128.59513	185.17016	10.03305	0.3101010	0.28178397	2.30	1.59	3.02	Mc	—	—
74576 1999 NG_{25}	16.2	X	65.52368	205.01900	85.82464	6.29035	0.3201397	0.27717391	2.33	1.58	3.08	Mc	11 30.3	19.9
74644 1999 RK_{63}	16.1	X	298.15773	76.86019	286.82690	3.20632	0.3106577	0.26477723	2.40	1.66	3.15	Mc	6 10.1	18.9
74721 1999 RH_{167}	16.2	X	347.21759	328.05084	44.95815	3.50751	0.3089791	0.27128053	2.36	1.63	3.09	Mc	11 23.3	17.1
74779 1999 RF_{241}	14.5	X	303.80497	45.30021	71.14640	23.86512	0.3095205	0.27325292	2.35	1.62	3.08	Mc	—	—
74789 1999 SY_5	14.4	X	38.49385	272.48002	130.33373	23.23538	0.3194591	0.27731542	2.33	1.58	3.07	Mc	—	—
74823 1999 TD_{15}	14.9	X	316.72394	231.94908	213.31379	22.72014	0.2950897	0.27240211	2.36	1.66	3.05	Mc	12 20.3	16.6
74839 1999 TZ_{34}	15.4	X	76.28724	314.25515	10.40221	12.85590	0.2885833	0.27723367	2.33	1.66	3.00	Mc	—	—
74998 1999 TV_{276}	15.2	X	201.77499	255.77446	281.84907	1.99786	0.3072779	0.27017667	2.37	1.64	3.10	Mc	10 19.6	19.3
75015 1999 UW_4	16.3	X	203.35005	3.07315	345.81372	2.92368	0.2506792	0.29845521	2.22	1.66	2.77	Mc	2 28.8	20.0
75017 1999 UE_5	15.4	X	10.30794	98.73910	347.01316	22.65489	0.2909464	0.27628664	2.33	1.66	3.01	Mc	—	—
75079 1999 VN_{24}	13.8	X	22.32256	287.03453	176.15894	23.00827	0.2945082	0.27956780	2.32	1.63	3.00	Mc	—	—
75303 1999 XQ_{35}	15.1	X	11.96062	85.08220	78.40730	28.35163	0.3687703	0.23150945	2.63	1.66	3.60	Mc	—	—
75409 1999 XR_{104}	15.1	X	25.35961	317.53272	80.97096	25.06564	0.2941402	0.27542170	2.34	1.65	3.03	Mc	—	—
75412 1999 XJ_{108}	15.3	X	106.97995	245.56216	70.71375	7.64779	0.2867666	0.27913125	2.32	1.65	2.98	Mc	—	—
75567 2000 AK_1	15.2	X	89.61996	248.81002	145.54344	23.31827	0.3428560	0.28291394	2.30	1.51	3.09	Mc	1 9.4	17.2
75933 2000 CB_{75}	14.9	X	154.50031	235.64785	152.52566	33.36527	0.3679318	0.24126238	2.56	1.62	3.50	Mc	3 26.0	19.8
76828 2000 SL_{161}	16.3	X	203.65334	28.12010	245.30296	11.69366	0.2219541	0.34900564	2.00	1.55	2.44	Mc	—	—
76978 2001 BY_{60}	14.8	X	330.86304	117.32451	147.71880	26.88917	0.3193971	0.29726705	2.22	1.51	2.93	Mc	3 4.3	17.3
77971 Donnolo	15.2	X	11.27005	258.63234	93.12961	22.03420	0.2893203	0.27886746	2.32	1.65	2.99	Mc	12 14.0	17.5
78545 2002 RT_{121}	16.2	X	324.44370	322.12026	316.74591	6.46082	0.2621099	0.30088390	2.21	1.63	2.78	Mc	3 19.2	18.6
78587 2002 SZ_{12}	14.8	X	187.76301	293.87034	269.29226	20.30257	0.3242167	0.26986251	2.37	1.60	3.14	Mc	11 5.8	19.4
79137 1991 PD_{15}	15.6	X	282.08567	35.17081	290.96659	5.66284	0.3045202	0.28964814	2.26	1.57	2.95	Mc	3 29.2	19.1
79150 1992 UR_7	16.8	X	70.84020	147.87300	123.77909	7.90835	0.2710347	0.30663707	2.18	1.59	2.77	Mc	11 12.3	20.1
79512 1998 KE_3	15.3	X	338.32950	130.55822	62.92191	47.92617	0.2527139	0.33608945	2.05	1.53	2.57	Mc	—	—
79558 1998 QE_{51}	15.8	X	52.79529	329.81142	331.07872	2.26185	0.2519687	0.30531023	2.18	1.63	2.73	Mc	11 26.3	18.7
79571 1998 QG_{92}	15.9	X	101.99770	227.24126	113.65895	4.49666	0.3150866	0.26949309	2.37	1.63	3.12	Mc	—	—
79576 1998 QG_{98}	15.7	X	343.00811	117.97606	184.63310	8.36125	0.2710111	0.29638319	2.23	1.62	2.83	Mc	6 12.9	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
79611 1998 RC_{52}	15.4	X	133.22512	308.21472	23.17246	5.82153	0.3005334	0.27394717	2.35	1.64	3.05	Mc	—	—
79721 1998 SE_{112}	16.0	X	325.74550	189.67960	122.07834	2.32026	0.2717560	0.29489713	2.24	1.63	2.84	Mc	5 15.0	17.9
80098 1999 MV_{1}	16.3	X	281.41690	254.99659	89.83624	1.44147	0.2999361	0.30667023	2.18	1.52	2.83	Mc	4 24.9	19.5
80107 1999 RG_{29}	15.7	X	292.84961	227.74655	160.30253	25.07342	0.2567676	0.31268107	2.15	1.60	2.70	Mc	7 17.8	18.4
80250 1999 WW_{9}	15.6	X	81.75815	291.00598	104.14473	3.96842	0.2923982	0.28115954	2.31	1.63	2.98	Mc	—	—
80356 1999 XM_{124}	15.8	X	299.65132	31.26447	318.06702	4.68079	0.2458686	0.30594218	2.18	1.64	2.72	Mc	5 30.7	18.2
80366 1999 XA_{142}	14.8	X	54.32391	79.43212	61.19195	23.16650	0.2860267	0.28592425	2.28	1.63	2.93	Mc	4 14.1	16.8
80593 2000 AG_{144}	14.0	X	172.83159	59.03331	320.42906	24.33577	0.3282402	0.28501299	2.29	1.54	3.04	Mc	3 9.0	18.4
82105 2001 FG_{26}	15.3	X	357.46165	288.55932	16.20840	6.49566	0.2600814	0.30188290	2.20	1.63	2.77	Mc	8 19.4	16.0
82124 2001 FO_{78}	15.7	X	345.55317	236.85635	46.85401	8.61849	0.2688314	0.29619070	2.23	1.63	2.83	Mc	5 12.9	16.9
82233 2001 JF_{1}	16.0	X	308.44735	320.81185	31.76109	5.20134	0.2876916	0.30022153	2.21	1.57	2.84	Mc	6 12.2	18.2
82474 2001 OB_{23}	15.7	X	248.72020	284.82573	49.07617	12.88285	0.3035332	0.28177556	2.30	1.60	3.00	Mc	3 22.3	19.9
82676 2001 PV_{23}	15.1	X	188.94813	324.91336	1.59144	7.69396	0.3109559	0.27405373	2.35	1.62	3.08	Mc	1 29.4	19.3
82913 2001 QN_{103}	15.0	X	186.55276	308.73069	347.23111	4.16847	0.3368807	0.27155576	2.36	1.57	3.16	Mc	—	—
83120 2001 QP_{246}	16.4	X	256.65995	317.59949	349.27896	3.61602	0.3038058	0.27983891	2.31	1.61	3.02	Mc	2 18.1	20.4
83988 2002 LC_{34}	16.3	X	278.90997	230.49961	133.51459	7.27531	0.2463506	0.31068557	2.16	1.63	2.69	Mc	5 26.8	19.2
83992 2002 MG_{3}	15.7	X	177.35464	354.21716	333.96246	7.92190	0.3169470	0.28585783	2.28	1.56	3.01	Mc	1 21.4	19.6
84667 2002 VO_{82}	16.0	X	199.49762	169.18847	179.55543	4.69926	0.2892339	0.28643569	2.28	1.62	2.94	Mc	2 26.9	19.9
85118 1971 UU	15.4	X	301.23184	141.08005	218.96583	2.21180	0.3913509	0.23458749	2.60	1.58	3.62	Mc	5 28.6	18.7
85158 Phyllistrapp	15.7	X	254.09232	42.33158	297.77012	6.02416	0.3163484	0.28257851	2.30	1.57	3.03	Mc	3 23.6	19.9
85165 1988 TV_{2}	15.3	X	0.00527	109.85550	273.68677	4.30714	0.3578305	0.24057348	2.56	1.64	3.48	Mc	—	—
85185 Lederman	16.4	X	109.49039	63.95154	230.63925	5.04797	0.2849878	0.30707320	2.18	1.56	2.80	Mc	—	—
85274 1994 GH	17.0	X	148.30736	140.22095	163.46874	5.80223	0.2464747	0.31271778	2.15	1.62	2.68	Mc	—	—
85372 1996 EO_{12}	15.5	X	16.36862	78.98067	302.52538	7.46306	0.2499407	0.30009946	2.21	1.66	2.76	Mc	—	—
85383 1996 MS	15.9	X	343.54692	222.31435	127.18628	6.88245	0.3673259	0.23706402	2.59	1.64	3.54	Mc	9 16.7	16.5
85490 1997 SE_{5}	14.6	X	113.86715	94.01867	247.73665	2.57518	0.6609897	0.13510434	3.76	1.28	6.25	Jc	2 3.2	21.5
85546 1997 XH_{1}	16.0	X	223.52627	349.15629	6.49576	3.04832	0.3204177	0.26980520	2.37	1.61	3.13	Mc	3 25.2	20.4
85762 1998 TH_{4}	16.6	X	77.02116	90.78558	213.26248	4.40322	0.2812175	0.30672110	2.18	1.57	2.79	Mc	12 25.7	20.1
85848 1998 YP_{29}	17.1	X	47.06277	55.23428	302.70917	6.86096	0.2786136	0.30223538	2.20	1.59	2.81	Mc	—	—
86025 1999 LX_{3}	16.0	X	124.44022	273.47963	255.54191	25.84889	0.1285317	0.40974083	1.80	1.56	2.03	Mc	7 26.9	18.7
86212 1999 TG_{21}	15.0	X	42.04902	37.56730	35.90166	25.33514	0.3098427	0.27943731	2.32	1.60	3.04	Mc	—	—
86401 2000 AF_{143}	14.6	X	314.51052	316.63468	270.13199	5.40086	0.2919537	0.27634310	2.33	1.65	3.02	Mc	—	—
86534 2000 DT_{98}	16.1	X	123.69243	260.67472	29.78209	5.72890	0.2383783	0.30789257	2.17	1.65	2.69	Mc	—	—
86608 2000 EK_{85}	15.6	X	54.59867	110.54532	129.11439	8.58998	0.2799896	0.28927236	2.26	1.63	2.90	Mc	9 10.9	18.2
86626 2000 EV_{124}	15.8	X	157.10493	143.74256	152.19801	7.34858	0.2647790	0.31015092	2.16	1.59	2.73	Mc	—	—
86730 2000 GY_{37}	16.4	X	343.43818	130.55123	189.21800	7.21030	0.3038972	0.28808455	2.27	1.58	2.96	Mc	7 14.6	17.3
86964 2000 JV_{2}	15.9	X	234.97736	173.03421	118.24855	7.68504	0.3254479	0.26860432	2.38	1.60	3.15	Mc	1 16.6	20.1
87005 2000 JJ_{52}	15.4	X	322.28030	313.47629	35.17066	8.09379	0.3181653	0.28427996	2.29	1.56	3.02	Mc	6 30.5	17.1
87035 2000 KE_{2}	14.3	X	73.85187	301.66446	131.63992	22.92697	0.3426312	0.27322406	2.35	1.55	3.16	Mc	2 7.8	15.5
88191 2000 YK_{21}	16.7	X	29.17734	309.04582	238.17345	9.22386	0.2117304	0.34520999	2.01	1.59	2.44	Mc	3 3.4	17.7
88412 2001 QN_{28}	16.5	X	153.89946	297.04716	3.89927	4.04108	0.2951132	0.31408812	2.14	1.51	2.78	Mc	—	—
88424 2001 QC_{61}	15.2	X	18.07728	281.12844	119.90567	22.49003	0.2883252	0.30396600	2.19	1.56	2.82	Mc	—	—
88453 2001 QF_{91}	15.8	X	281.65549	91.51368	328.84989	23.18386	0.2941302	0.29062561	2.26	1.59	2.92	Mc	8 14.6	18.2
88609 2001 QP_{296}	16.0	X	130.33482	278.19300	31.99846	3.95338	0.2622175	0.31108604	2.16	1.59	2.72	Mc	—	—
88938 2001 TR_{33}	16.8	X	63.54953	62.74917	281.16396	5.59656	0.2458476	0.30359029	2.19	1.65	2.73	Mc	—	—
88954 2001 TE_{42}	15.1	X	293.30485	64.32735	299.42186	6.89310	0.3079646	0.28571143	2.28	1.58	2.99	Mc	6 2.6	18.1
89137 2001 UD_{17}	16.3	X	112.88574	55.35101	210.32806	7.46451	0.2507615	0.30237683	2.20	1.65	2.75	Mc	12 5.4	20.0
89454 2001 XG	14.9	X	230.08869	284.35791	57.28534	22.23298	0.3188674	0.28164745	2.30	1.57	3.04	Mc	3 24.8	19.5
89486 2001 XL_{31}	15.0	X	246.38226	57.84456	282.51935	19.97848	0.3474453	0.27338283	2.35	1.53	3.17	Mc	3 9.6	19.8
89566 2001 XZ_{103}	15.6	X	298.84356	50.18749	310.28145	2.60583	0.2867928	0.28546548	2.28	1.63	2.94	Mc	6 9.7	18.1
89766 2002 AO_{62}	15.9	X	294.75515	240.64057	147.05075	5.56338	0.2843951	0.28389669	2.29	1.64	2.94	Mc	7 14.7	18.5
89776 2002 AL_{90}	14.7	X	180.35975	294.59301	145.99792	20.39230	0.3127593	0.27445056	2.35	1.61	3.08	Mc	6 10.9	19.4
90281 2003 DQ_{15}	15.9	X	112.60669	272.93644	117.15821	1.47662	0.3138771	0.27102720	2.36	1.62	3.11	Mc	2 8.2	18.7
90791 1994 PG_{32}	16.5	X	120.47271	318.08640	308.75378	5.12166	0.3109849	0.30202931	2.20	1.52	2.88	Mc	12 12.7	20.4
90916 1997 LR	16.4	X	85.37115	204.71555	123.33862	7.36979	0.2848408	0.30202903	2.20	1.57	2.83	Mc	—	—
90943 1997 UX_{2}	15.7	X	21.60839	90.94230	214.81120	10.21327	0.2688683	0.28708054	2.28	1.66	2.89	Mc	10 20.7	17.7
91210 1998 XS_{96}	16.9	X	43.79050	304.03217	110.38807	2.27148	0.2764923	0.30780790	2.17	1.57	2.77	Mc	—	—
91227 1999 BG_{9}	16.2	X	233.08142	358.58410	172.47503	1.33660	0.2831482	0.29478572	2.24	1.60	2.87	Mc	11 14.8	19.0
92278 2000 CB_{110}	17.4	X	88.46102	326.12676	319.26438	7.10112	0.2435539	0.30345266	2.19	1.66	2.73	Mc	12 8.9	21.0
92359 2000 HC_{24}	15.9	X	87.72216	287.92764	38.94648	7.66431	0.3081220	0.30115983	2.20	1.53	2.88	Mc	—	—
92383 2000 HE_{75}	15.3	X	247.74407	252.40873	53.27453	23.18359	0.2949002	0.27186384	2.36	1.66	3.06	Mc	2 22.3	20.0
93038 2000 RL_{104}	14.8	X	251.54883	279.35787	223.19651	21.90129	0.2876562	0.28345305	2.30	1.63	2.96	Mc	10 25.9	17.7
93040 2000 SG	14.0	X	140.93424	99.86262	333.57405	20.42110	0.3767445	0.25851490	2.44	1.52	3.36	Mc	4 26.2	18.8
93751 2000 WH_{1}	15.1	X	242.99172	318.34372	55.27166	25.68281	0.3192032	0.27037234	2.37	1.61	3.12	Mc	5 3.7	19.4
93768 2000 WN_{22}	14.2	X	168.04148	126.29010	62.00214	24.74295	0.3167277	0.27750397	2.33	1.59	3.07	Mc	10 21.1	18.8
94210 2001 BK_{33}	15.8	X	30.21229	114.56125	314.15487	5.18304	0.3802718	0.24089329	2.56	1.59	3.53	Mc	—	—
94396 2001 SN_{213}	16.4	X	101.50790	193.94733	75.69565	5.08955	0.2460837	0.30416728	2.19	1.65	2.73	Mc	12 1.1	20.0
94623 2001 WD_{2}	15.1	X	229.09354	250.56572	244.56342	23.08677	0.2738858	0.28451192	2.29	1.66	2.92	Mc	9 14.5	19.2
94891 2001 YC_{5}	14.7	X	155.49731	305.26726	47.80928	23.29554	0.3410363	0.26021873	2.43	1.60	3.26	Mc	2 18.0	19.4
95087 2002 AQ_{89}	14.7	X	248.65098	306.79320	141.64134	22.83226	0.2851725	0.28424602	2.29	1.64	2.94	Mc	8 11.5	18.1
95696 2002 JU_{75}	14.4	X	297.95770	62.81380	11.81645	23.51262	0.3225334	0.28358062	2.29	1.55	3.03	Mc	10 1.3	15.9
95711 2003 AK	14.7	X	359.77072	78.98223	108.41927	22.97302	0.3403875	0.27470223	2.34	1.55	3.14	Mc	—	—
96006 2004 NE_{27}	17.5	X	313.53598	144.91045	163.61797	1.72224	0.2819381	0.28421869	2.29	1.65	2.94	Mc	4 17.8	19.9
96011 2004 PD_{6}	16.3	X	244.05953	211.32445	170.30694	9.57033	0.2896496	0.27881088	2.32	1.65	2.99	Mc	5 13.8	20.3
96080 7649 $P–L$	16.6	X	31.16921	194.75627	133.25969	3.02747	0.2919321	0.29256393	2.25	1.59	2.90	Mc	12 11.7	19.4
96155 1973 HA	14.5	X	226.95599	110.06657	49.99881	23.48864	0.3984441	0.21709335	2.74	1.65	3.83	Mc	10 16.3	19.6
96177 1984 BC	16.0	X	257.60580	43.65509	129.43351	21.34641	0.5331560	0.15084102	3.50	1.63	5.36	Jc	11 3.1	22.2
96487 1998 JU_{1}	14.1	X	220.84655	274.47336	208.55238	20.87567	0.3922593	0.27413921	2.35	1.43	3.27	Mc	8 17.3	18.8
96562 1998 SZ_{138}	15.8	X	200.00005	53.78087	228.24358	4.99727	0.3019022	0.31959277	2.12	1.48	2.76	Mc	—	—
97034 1999 UK_{7}	14.8	X	115.35169	202.30896	336.89044	24.18794	0.2672873	0.39057822	1.85	1.36	2.35	Mc	8 26.5	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
97514 2000 DL_1	13.9	X	175.48964	119.06934	4.26461	35.35764	0.2721372	0.34385840	2.02	1.47	2.57	Mc	8 19.9	18.0
97679 2000 GG_2	16.6	X	180.28841	138.38507	196.32677	50.81167	0.1319591	0.50067314	1.57	1.36	1.78	Mc	—	—
97834 2000 PN_6	15.2	X	310.71050	280.70867	148.47699	22.85309	0.2845898	0.28206360	2.30	1.65	2.96	Mc	11 15.2	17.2
97886 2000 QK_{54}	16.5	X	318.44868	25.50610	347.58290	6.06186	0.3230317	0.28050123	2.31	1.56	3.06	Mc	8 5.3	17.7
98039 2000 RC_{22}	15.1	X	278.81633	282.21057	181.38190	22.81973	0.2799882	0.28316058	2.30	1.65	2.94	Mc	10 16.0	17.3
98117 2000 SP_2	15.0	X	302.97875	225.70634	63.80561	27.22844	0.3029637	0.27045835	2.37	1.65	3.09	Mc	3 26.3	19.0
98129 2000 SD_{25}	14.5	X	261.51568	137.13932	227.81749	23.10562	0.3096430	0.27084613	2.37	1.63	3.10	Mc	5 3.3	18.5
98302 2000 SX_{237}	15.0	X	141.24596	228.68032	78.91181	7.66975	0.2654864	0.29774569	2.22	1.63	2.81	Mc	—	—
98333 2000 SC_{295}	15.8	X	300.78733	75.48383	315.61791	4.77314	0.3118674	0.27680393	2.33	1.60	3.06	Mc	7 26.2	17.7
98554 2000 WP_6	16.2	X	275.65014	276.49059	75.80196	4.04306	0.3429316	0.27463128	2.34	1.54	3.15	Mc	4 27.4	19.8
98889 2001 BL_{38}	14.0	X	241.80691	273.83803	320.82539	25.90297	0.4218832	0.23284376	2.62	1.51	3.72	Mc	—	—
98891 2001 BK_{41}	15.6	X	167.90455	345.48642	237.94097	7.58493	0.3886083	0.27865777	2.32	1.42	3.22	Mc	11 18.3	20.1
99297 2001 RU_{14}	15.1	X	5.28830	4.46334	224.95403	20.30762	0.3677564	0.28573786	2.28	1.44	3.12	Mc	2 28.3	17.0
99321 2001 TT_{113}	16.9	X	163.57015	32.28207	356.82819	2.41947	0.2118947	0.32217335	2.11	1.66	2.55	Mc	3 13.3	19.9
99761 2002 JK_{101}	15.7	X	191.06411	15.61975	119.60609	24.95327	0.2962280	0.27283892	2.35	1.66	3.05	Mc	8 25.2	20.1
99795 2002 KM_6	14.7	X	167.31698	356.76533	280.97365	9.52554	0.4054276	0.22965881	2.64	1.57	3.71	Mc	—	—
99869 2002 PF_{46}	15.3	X	324.52928	45.49332	194.56278	2.76293	0.4034300	0.24796925	2.51	1.50	3.52	Mc	1 16.9	18.8
99913 1997 CZ_5	13.5	X	14.61279	169.55678	287.95132	24.95018	0.3980646	0.28394302	2.29	1.38	3.21	Mc	—	—
99915 1997 TR_6	14.9	X	139.49818	218.29000	140.21077	3.02395	0.4034984	0.22260198	2.70	1.61	3.78	Mc	2 10.6	19.6
99967 1979 OG_8	15.5	X	71.95544	247.08191	125.50193	21.98554	0.3371344	0.26569894	2.40	1.59	3.20	Mc	—	—
100006 1987 DA_7	15.8	X	283.14280	210.86513	309.66574	4.21841	0.3049569	0.33837981	2.04	1.42	2.66	Mc	—	—
100008 1988 QZ	15.6	X	325.16599	9.57547	335.81532	12.49291	0.3383586	0.26700411	2.39	1.58	3.20	Mc	6 29.7	17.6
100015 1989 SR_7	15.8	X	272.86705	88.79439	269.29662	4.38907	0.3000213	0.27114386	2.36	1.65	3.07	Mc	5 4.7	19.6
100017 1989 TN_2	16.6	X	13.48812	224.72215	174.96312	8.06314	0.2945661	0.28145331	2.31	1.63	2.99	Mc	—	—
100045 1991 TK_1	14.3	X	48.72449	115.70631	336.40469	22.03568	0.2941471	0.27395721	2.35	1.66	3.04	Mc	—	—
100088 1993 DC	16.0	X	254.35800	4.76711	69.86326	10.09533	0.4277749	0.26625019	2.39	1.37	3.42	Mc	7 15.6	20.1
100276 1994 XV	15.8	X	355.51131	220.02059	231.42910	21.04461	0.3718115	0.25982873	2.43	1.53	3.34	Mc	—	—
100316 1995 MM_2	16.2	X	293.95991	175.63449	174.68022	4.84719	0.2499852	0.29967544	2.21	1.66	2.76	Mc	5 25.5	18.9
100333 1995 SN_5	15.7	X	181.76753	261.35955	14.47803	24.14755	0.3114000	0.28258718	2.30	1.58	3.02	Mc	—	—
100341 1995 ST_{44}	16.1	X	47.84338	175.57972	193.15801	3.98948	0.3077716	0.27273518	2.35	1.63	3.08	Mc	—	—
100438 1996 PC_3	15.3	X	290.62973	98.43806	329.37638	25.95767	0.3621924	0.23554077	2.60	1.66	3.54	Mc	8 21.2	18.4
100446 1996 RC_4	16.9	X	1.74592	259.01811	179.45593	29.49769	0.2267782	0.44337476	1.70	1.32	2.09	Mc	—	—
100452 1996 RY_{27}	17.6	X	314.41820	100.90245	242.28893	0.94007	0.3178962	0.31239552	2.15	1.47	2.83	Mc	6 1.7	19.4
100480 1996 UK	16.1	X	232.66093	136.27581	209.49395	10.83881	0.4594445	0.22339023	2.69	1.45	3.93	Mc	3 16.2	21.7
100485 Russelldavies	16.2	X	96.46776	137.80713	45.60716	5.91772	0.2934512	0.34301493	2.02	1.43	2.61	Mc	8 16.1	19.1
100493 1996 VK_{37}	17.1	X	219.34012	94.51700	200.48219	2.38295	0.2675966	0.29467818	2.24	1.64	2.83	Mc	1 7.0	20.9
100553 Dariofo	16.6	X	54.77065	165.30191	33.08138	9.80416	0.1629643	0.41344494	1.78	1.49	2.08	Mc	6 4.8	17.2
100681 1997 YD_1	15.4	X	259.45959	251.70081	287.27625	22.71019	0.2922871	0.28689949	2.28	1.61	2.94	Mc	12 31.1	17.6
100743 1998 DC_{30}	16.2	X	286.99976	93.16756	185.33052	6.96585	0.2584205	0.30036669	2.21	1.64	2.78	Mc	2 6.0	19.6
100754 1998 FP_2	16.5	X	155.89932	104.78321	184.56044	23.62981	0.0851104	0.41027435	1.79	1.64	1.95	Mc	—	—
100766 1998 FX_{24}	15.6	X	258.36147	120.81100	328.39770	6.48614	0.3837898	0.23628351	2.59	1.60	3.59	Mc	8 9.7	19.7
100908 1998 KH_{17}	16.0	X	147.44998	71.58884	219.97490	22.37093	0.4261529	0.27470605	2.34	1.34	3.34	Mc	—	—
100922 1998 KR_{61}	15.4	X	227.85548	122.01754	128.04590	11.86935	0.2795000	0.28282620	2.30	1.66	2.94	Mc	—	—
100933 1998 MK_{30}	15.6	X	313.68645	156.20110	203.00593	5.50325	0.4378355	0.25472236	2.46	1.39	3.54	Mc	6 5.2	18.2
100935 1998 MA_{42}	15.4	X	197.01653	60.72587	282.17119	4.40730	0.3159780	0.28519981	2.29	1.56	3.01	Mc	2 18.2	19.5
100952 1998 QR_5	15.8	X	135.09485	99.99405	318.26032	18.47355	0.3045677	0.28009844	2.31	1.61	3.02	Mc	3 26.6	19.9
101027 1998 QL_{71}	15.6	X	169.96499	197.18186	201.75532	7.00839	0.2904747	0.28345158	2.30	1.63	2.96	Mc	4 8.3	19.4
101037 1998 QX_{90}	16.2	X	166.86913	183.69334	156.70099	7.28346	0.2874831	0.27814428	2.32	1.66	2.99	Mc	1 24.6	20.1
101058 1998 RN_3	15.4	X	0.43520	84.45756	348.20458	21.19694	0.5157249	0.17766826	3.13	1.52	4.75	Ja	—	—
101158 1998 RA_{77}	16.4	X	234.38881	272.32808	33.01968	4.76930	0.2852306	0.28374631	2.29	1.64	2.95	Mc	2 2.1	20.5
101258 1998 SF_{97}	15.8	X	175.32959	335.60761	29.13212	3.68429	0.2821093	0.28073793	2.31	1.66	2.96	Mc	3 3.1	19.7
101328 1998 SJ_{162}	16.4	X	72.64460	190.77032	206.91759	4.87125	0.3187164	0.26956781	2.37	1.62	3.13	Mc	—	—
101363 1998 UQ	15.7	X	153.70332	303.83628	37.15912	9.92265	0.3339939	0.27721733	2.33	1.55	3.11	Mc	1 22.2	19.6
101402 1998 VG_1	15.8	X	211.26265	274.09358	61.72717	8.42138	0.2993346	0.28178411	2.30	1.61	2.99	Mc	2 24.8	20.1
101429 1998 VF_{31}	17.2	X	268.99082	310.56366	221.29679	31.29550	0.1004385	0.52381751	1.52	1.37	1.68	MT	—	—
101430 1998 VE_{32}	15.4	X	22.31904	100.41319	237.56559	26.97995	0.2899877	0.38953210	1.86	1.32	2.40	Mc	12 27.9	18.0
101465 1998 WL_{12}	16.0	X	230.52387	86.81280	263.94858	3.13022	0.3018753	0.28478892	2.29	1.60	2.98	Mc	3 21.8	20.1
101487 1998 WB_{40}	16.0	X	140.30215	267.58525	60.85598	22.89480	0.3402752	0.27238244	2.36	1.55	3.16	Mc	—	—
101496 1998 XM_3	15.0	X	231.09159	338.95241	32.84928	8.68545	0.3982926	0.24244935	2.55	1.53	3.56	Mc	4 17.6	19.8
101554 1999 AL_4	15.9	X	110.41434	86.12628	310.14626	21.86485	0.3331039	0.27417983	2.35	1.56	3.13	Mc	2 11.6	18.9
101610 1999 CW_7	16.2	X	47.33766	125.30731	344.85430	14.60737	0.2875345	0.39954257	1.83	1.30	2.35	Mc	—	—
101742 1999 FO_7	14.7	X	74.50250	88.20251	349.42083	23.22214	0.3436758	0.26752479	2.39	1.57	3.21	Mc	2 24.9	16.5
101795 1999 HX_2	15.0	X	304.77481	156.56761	135.57295	19.45713	0.5487535	0.17686367	3.14	1.42	4.87	Mc	2 25.1	20.3
101811 1999 JQ_6	14.8	X	50.11046	95.90997	21.28812	22.20634	0.3219451	0.27143832	2.36	1.60	3.12	Mc	2 25.4	16.5
101818 1999 JD_{13}	16.6	X	308.97808	54.44402	219.94712	5.67400	0.2670242	0.30381025	2.19	1.61	2.78	Mc	2 20.3	19.7
101901 1999 QD_2	17.2	X	46.23587	122.97492	154.02273	23.28761	0.0609339	0.45024938	1.69	1.58	1.79	Mc	10 12.2	18.7
101931 1999 RZ_{20}	16.7	X	355.70237	2.54579	343.27719	6.61382	0.3129383	0.27008031	2.37	1.63	3.11	Mc	10 27.7	18.0
101952 1999 RY_{31}	16.2	X	218.06625	209.91612	59.36323	7.92807	0.3150656	0.29119215	2.25	1.54	2.96	Mc	—	—
101961 1999 RL_{39}	15.9	X	298.61077	252.17287	87.96785	7.63324	0.2425958	0.30577107	2.18	1.65	2.71	Mc	5 18.4	18.3
101967 1999 RQ_{43}	15.8	X	11.40027	134.22385	184.57914	4.19590	0.3007214	0.31479616	2.14	1.50	2.78	Mc	11 4.9	17.2
101969 1999 RJ_{45}	14.8	X	174.89189	243.62429	125.12774	15.07245	0.4455189	0.20354346	2.86	1.59	4.14	Mc	3 22.3	20.7
102074 1999 RN_{143}	15.7	X	292.41012	207.56689	175.63589	8.62117	0.3133107	0.26458228	2.40	1.65	3.16	Mc	6 29.3	18.8
102109 1999 RD_{166}	16.9	X	206.86158	318.47702	6.99868	3.60107	0.2744188	0.29552960	2.23	1.62	2.84	Mc	2 4.9	20.9
102232 1999 TX_{18}	16.5	X	285.85038	146.40551	211.24341	3.74110	0.2565028	0.30581728	2.18	1.62	2.74	Mc	5 23.4	19.3
102405 1999 TP_{172}	16.3	X	97.88504	209.97301	172.04549	1.76529	0.3018936	0.28390980	2.29	1.60	2.98	Mc	—	—
102431 1999 TL_{205}	16.6	X	37.97792	45.82349	251.94827	2.64274	0.2312489	0.31430064	2.14	1.65	2.64	Mc	11 2.3	18.7
102454 1999 TY_{218}	16.5	X	196.42306	142.69562	170.64096	5.24682	0.3187385	0.29261084	2.25	1.53	2.96	Mc	1 14.2	20.6
102528 1999 US_3	13.6	X	256.04734	181.89593	268.13969	28.94157	0.5176394	0.21437168	2.76	1.33	4.20	Mc	7 18.7	19.0
102803 1999 VA_{169}	16.6	X	49.84348	268.96990	51.65751	4.84736	0.2354818	0.31595402	2.13	1.63	2.64	Mc	12 19.2	19.5
102896 1999 XD_{10}	15.6	X	290.25292	41.48395	289.47402	8.32940	0.2620291	0.29755707	2.22	1.64	2.80	Mc	4 16.2	18.7

ELEMENTS AND OPPOSITION DATES OF SOME UNUSUAL MINOR PLANETS

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
102910 1999 XT_{19}	15.6	X	169.75201	102.14528	228.55176	5.01538	0.2838755	0.29007486	2.26	1.62	2.90	Mc	1 13.1	19.3
102935 1999 XK_{43}	15.3	X	84.41246	270.62272	40.55045	4.15626	0.3320794	0.27573897	2.34	1.56	3.11	Mc	—	—
102997 1999 XF_{94}	15.0	X	149.72232	276.19915	104.58429	22.96717	0.2983731	0.28658634	2.28	1.60	2.96	Mc	3 9.4	19.1
103066 1999 XO_{141}	17.8	X	143.79399	192.49570	111.29220	2.93721	0.1744593	0.45651387	1.67	1.38	1.96	Mc	—	—
103161 1999 XF_{225}	16.5	X	153.09551	239.91789	100.33088	7.52337	0.2781421	0.28151457	2.31	1.66	2.95	Mc	1 12.3	19.9
103173 1999 XS_{233}	16.0	X	100.66944	196.78444	137.85301	4.54758	0.2830849	0.27993822	2.31	1.66	2.97	Mc	—	—
103276 2000 AT_{33}	16.7	X	28.55100	240.23337	122.57571	5.82228	0.2753341	0.31570579	2.14	1.55	2.72	Mc	—	—
103358 2000 AE_{93}	15.8	X	219.64099	252.14148	85.02264	8.87416	0.2941441	0.29084193	2.26	1.59	2.92	Mc	3 3.3	20.0
103501 2000 AT_{245}	15.3	X	137.02637	106.48666	3.92754	22.50228	0.2869365	0.28706113	2.28	1.62	2.93	Mc	6 7.2	19.6
103506 2000 BD_{1}	15.8	X	300.90579	286.56043	170.53113	27.11422	0.2661203	0.35675616	1.97	1.44	2.49	Mc	—	—
103522 2000 BQ_{6}	16.5	X	222.75725	224.78813	80.62207	12.47798	0.1776366	0.41913123	1.77	1.45	2.08	Mc	—	—
103732 2000 CO_{103}	15.1	X	191.01454	92.39036	300.93346	22.46870	0.2836597	0.29015453	2.26	1.62	2.90	Mc	4 3.4	19.7
104444 2000 GR_{3}	15.3	X	154.01046	249.46119	208.72985	20.31514	0.3156435	0.28877191	2.27	1.55	2.98	Mc	6 10.2	19.6
105106 2000 LS_{14}	16.0	X	260.34138	9.91992	306.94126	6.19306	0.3803646	0.27049787	2.37	1.47	3.27	Mc	2 26.9	20.4
105158 2000 OL	13.5	X	308.23404	333.56744	312.90094	14.76788	0.4856377	0.22753840	2.66	1.37	3.95	Mc	2 18.2	17.9
105175 2000 OO_{22}	15.6	X	29.58509	250.52698	142.12362	3.71113	0.2719772	0.28940021	2.26	1.65	2.88	Mc	—	—
105208 2000 OH_{48}	17.4	X	259.60361	318.77503	21.50625	2.11940	0.2564563	0.31745648	2.13	1.58	2.67	Mc	4 1.7	20.7
105406 2000 QN_{150}	16.4	X	204.75491	8.45934	333.59321	5.17220	0.2467001	0.30909900	2.17	1.63	2.70	Mc	2 20.3	20.0
105674 2000 SQ_{42}	15.5	X	327.73065	238.29912	183.81777	22.31426	0.3392245	0.28236834	2.30	1.52	3.08	Mc	12 30.5	17.2
105943 2000 SY_{233}	16.5	X	32.34595	245.74793	84.83876	5.41577	0.3024930	0.28670863	2.28	1.59	2.97	Mc	12 16.6	19.3
106239 2000 UM_{46}	15.9	X	50.15153	106.84009	253.55110	2.48364	0.2746688	0.28922289	2.26	1.64	2.89	Mc	—	—
106521 2000 WC_{51}	15.3	X	338.40652	211.76666	221.79415	24.49511	0.2804737	0.28815181	2.27	1.63	2.91	Mc	—	—
106577 2000 WB_{95}	16.5	X	54.85369	301.48329	78.59038	3.55762	0.2723434	0.29020741	2.26	1.64	2.87	Mc	—	—
106628 2000 WH_{126}	15.0	X	355.39505	294.72279	84.21819	23.28624	0.3430928	0.27991454	2.31	1.52	3.11	Mc	—	—
106848 2000 YP_{16}	16.8	X	48.95669	232.27768	266.22308	3.32964	0.3318079	0.34305168	2.02	1.35	2.69	Mc	1 24.3	16.1
106988 2000 YE_{101}	14.7	X	102.84336	268.77999	83.24598	18.10416	0.3790680	0.24126303	2.56	1.59	3.52	Mc	—	—
107150 2001 BW_{10}	16.0	X	36.43963	297.18038	304.68020	20.26105	0.3194055	0.30489352	2.19	1.49	2.88	Mc	8 14.9	17.7
107225 2001 BF_{51}	15.9	X	339.67912	275.57873	305.51873	20.41885	0.2920528	0.29250359	2.25	1.59	2.90	Mc	1 19.4	18.4
107673 2001 FV_{6}	15.6	X	130.48424	252.07605	29.54131	5.19013	0.3493328	0.27073423	2.37	1.54	3.19	Mc	—	—
107888 2001 FY_{92}	16.2	X	213.74023	167.24219	52.42833	6.60122	0.3086766	0.27546817	2.34	1.62	3.06	Mc	12 20.5	19.9
108182 2001 HY_{13}	16.2	X	9.64520	302.71593	25.01521	7.18961	0.2648612	0.30829188	2.17	1.60	2.74	Mc	11 4.3	17.6
108297 2001 HK_{65}	16.1	X	20.03654	281.32508	10.11072	5.59543	0.2482780	0.30199366	2.20	1.65	2.75	Mc	9 24.4	17.4
108376 2001 KB_{20}	15.4	X	231.08595	259.13905	86.51365	23.77566	0.2854928	0.28553138	2.28	1.63	2.94	Mc	3 31.4	20.0
108410 2001 KG_{32}	16.4	X	288.03451	301.42111	49.09557	7.34276	0.2771943	0.29783274	2.22	1.61	2.84	Mc	5 12.7	19.3
108516 2001 KR_{75}	14.6	X	203.99186	72.46997	296.18384	22.18540	0.3299437	0.27875574	2.32	1.56	3.09	Mc	3 14.5	19.5
108522 2001 LQ	13.9	X	175.84942	278.60653	91.72618	28.94576	0.3882152	0.23528512	2.60	1.59	3.61	Mc	3 31.2	19.5
108573 2001 MN_{4}	15.6	X	169.47403	310.25762	54.92392	23.77129	0.2890663	0.28018117	2.31	1.64	2.98	Mc	3 12.4	20.1
109077 2001 QR_{25}	15.5	X	208.33612	248.96374	131.43061	4.94329	0.2989575	0.27933564	2.32	1.62	3.01	Mc	4 15.5	19.8
109226 2001 QH_{91}	16.1	X	225.77586	202.37969	220.76729	6.13397	0.3850416	0.23160168	2.63	1.61	3.64	Mc	6 14.6	21.2
109346 2001 QK_{150}	15.8	X	44.09942	276.95946	108.78466	7.06371	0.3660760	0.25572323	2.46	1.56	3.36	Mc	—	—
110083 2001 SV_{115}	15.7	X	14.22348	268.96422	3.93264	27.16008	0.3501070	0.24226262	2.55	1.66	3.44	Mc	9 2.4	17.8
110325 2001 SZ_{285}	14.5	X	305.06993	242.62863	65.03153	17.90107	0.3644719	0.23720239	2.58	1.64	3.53	Mc	4 7.6	18.5
111245 2001 XE_{3}	14.5	X	259.98373	76.13609	49.27612	23.44398	0.3638035	0.23834068	2.58	1.64	3.51	Mc	10 9.6	18.5
111346 2001 XS_{103}	16.6	X	172.11451	154.45331	197.39891	3.03612	0.2600533	0.31617305	2.13	1.58	2.69	Mc	2 4.9	20.0
111811 2002 CN_{283}	15.0	X	66.51549	78.69042	356.68165	24.16118	0.2900570	0.30290985	2.20	1.56	2.83	Mc	—	—
112127 2002 JW_{47}	16.9	X	287.26598	275.17873	10.83896	5.36308	0.2696666	0.30324791	2.19	1.60	2.79	Mc	2 17.9	20.2
112380 2002 NN_{27}	17.5	X	155.34247	173.83068	146.78691	3.84205	0.3184290	0.28220147	2.30	1.57	3.03	Mc	—	—
112464 2002 OQ_{13}	16.9	X	212.42461	145.95207	225.22973	6.32844	0.2971100	0.29617737	2.23	1.57	2.89	Mc	4 2.4	21.0
112493 2002 PR_{6}	15.6	X	294.57729	310.91773	142.61743	13.41871	0.3378932	0.31991840	2.12	1.40	2.83	Mc	11 10.9	16.6
112495 2002 PQ_{10}	16.6	X	245.91256	153.37509	191.05365	3.15405	0.2706792	0.29830271	2.22	1.62	2.82	Mc	3 26.9	20.4
112548 2002 PL_{42}	16.5	X	278.36889	332.01650	23.04950	4.89295	0.2449208	0.30145108	2.20	1.66	2.74	Mc	5 11.2	19.5
112661 2002 PR_{87}	16.5	X	218.93225	128.10820	115.63654	8.75549	0.3321340	0.28528934	2.29	1.53	3.04	Mc	—	—
112828 2002 QE_{10}	16.4	X	138.45364	208.52775	91.87133	8.08149	0.2953854	0.27686015	2.33	1.64	3.02	Mc	—	—
112891 2002 QG_{47}	16.9	X	23.69787	248.84024	57.99311	6.22002	0.2775006	0.31421338	2.14	1.55	2.74	Mc	11 3.7	18.7
113071 2002 RK_{62}	16.5	X	133.61474	167.75237	144.80315	4.82854	0.3004843	0.27646456	2.33	1.63	3.03	Mc	—	—
113681 2002 TL_{110}	16.3	X	9.75955	192.06960	116.44217	8.61385	0.3265180	0.31182139	2.15	1.45	2.86	Mc	10 24.1	17.9
114249 2002 WO_{11}	15.2	X	51.26892	100.34004	258.15029	11.48535	0.3026734	0.26700226	2.39	1.67	3.11	Mc	—	—
114319 2002 XD_{58}	15.6	X	249.25335	92.66292	242.49457	6.83389	0.2746145	0.29074592	2.26	1.64	2.88	Mc	3 15.5	19.7
114326 2002 XO_{59}	15.2	X	122.87211	286.88890	131.09372	21.98622	0.3296091	0.27917455	2.32	1.55	3.08	Mc	4 4.9	19.1
114507 2003 AX_{80}	16.0	X	134.15352	277.41480	196.38214	21.86122	0.2749702	0.28461758	2.29	1.66	2.92	Mc	6 12.4	20.2
114534 2003 BT_{19}	13.6	X	47.73191	304.79848	81.90598	13.58799	0.4650570	0.21076742	2.80	1.50	4.10	Mc	—	—
114553 2003 BH_{42}	15.0	X	5.62308	273.68079	192.45737	21.81062	0.3291689	0.26346535	2.41	1.62	3.20	Mc	—	—
114575 2003 BH_{71}	15.1	X	47.02120	1.54628	12.73143	8.43957	0.3204746	0.26015355	2.43	1.65	3.21	Mc	—	—
114800 2003 NM_{7}	16.3	X	115.17350	162.45335	195.10194	6.77543	0.3376902	0.29275270	2.25	1.49	3.00	Mc	—	—
114824 2003 OB_{17}	16.7	X	70.96114	204.19414	183.81661	3.43860	0.2708015	0.29223238	2.25	1.64	2.86	Mc	—	—
114924 2003 QL_{41}	15.6	X	356.64978	12.41168	343.77071	10.93150	0.2990830	0.27646445	2.33	1.64	3.03	Mc	11 15.4	17.4
115916 2003 WB_{8}	14.1	X	330.26086	352.00854	124.97908	20.31450	0.5571842	0.16960086	3.23	1.43	5.03	Mc	—	—
117898 3029 P–L	16.6	X	201.23060	113.53900	252.72098	5.83083	0.3302786	0.28481132	2.29	1.53	3.04	Mc	3 19.6	20.9
118108 2398 T-3	15.9	X	195.23790	60.78731	352.36656	4.84088	0.3145264	0.26170322	2.42	1.66	3.18	Mc	5 13.6	20.5
118112 2665 T-3	16.9	X	94.77522	129.35851	236.05740	1.25893	0.2585333	0.29845311	2.22	1.64	2.79	Mc	—	—
118148 4204 T-3	16.5	X	302.50439	252.80398	179.44774	7.58454	0.3388512	0.24508816	2.53	1.67	3.39	Mc	9 24.9	18.2
118151 4391 T-3	16.0	X	184.41191	241.01628	96.31117	5.09312	0.2855437	0.28049519	2.31	1.65	2.97	Mc	2 4.8	20.1
118162 1951 SX	15.9	X	48.52156	212.32771	194.43094	39.10290	0.2538341	0.38392956	1.87	1.40	2.35	Mc	—	—
118167 1981 EJ_{30}	17.3	X	356.44368	28.98283	176.10354	4.55204	0.2961429	0.34309113	2.02	1.42	2.62	Mc	1 5.3	19.4
118174 1991 RO_{24}	16.3	X	169.25533	179.64551	150.39230	9.58361	0.3083458	0.27919574	2.32	1.60	3.03	Mc	1 15.6	20.3
118197 1994 UU_{6}	16.0	X	180.54464	48.89508	12.01969	4.03878	0.2828380	0.27887505	2.32	1.66	2.98	Mc	5 12.6	20.1
118273 1998 OX_{9}	16.7	X	279.21471	155.93550	175.86996	2.00321	0.2635869	0.29243002	2.25	1.66	2.84	Mc	4 10.5	19.9
118307 1998 VM_{1}	15.7	X	220.18916	309.10868	30.74889	8.47719	0.2870679	0.28242724	2.30	1.64	2.96	Mc	3 7.1	19.9
118337 1999 BQ_{9}	14.7	X	353.62241	85.20444	63.67499	20.86925	0.3353868	0.26408552	2.41	1.60	3.21	Mc	—	—
118569 2000 GF_{1}	15.4	X	31.36642	126.03492	56.32874	23.82774	0.2929537	0.28074502	2.31	1.63	2.99	Mc	4 18.3	16.8

ELEMENTS AND OPPOSITION DATES OF SOME UNUSUAL MINOR PLANETS

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
118624 2000 HR_{24}	13.0	X	332.05290	354.02521	223.29806	15.54078	0.1750524	0.08982758	4.94	4.07	5.80	Jc	2 26.8	19.2
119039 2001 FZ_{91}	13.5	X	49.80544	186.05684	27.65949	11.77299	0.2410500	0.10810551	4.36	3.31	5.42	Jc	7 14.3	19.1
119044 2001 HV_{7}	16.7	X	55.09552	264.61232	48.84168	2.00014	0.2563364	0.31244081	2.15	1.60	2.70	Mc	12 17.1	19.7
119147 2001 PF_{47}	15.4	X	222.07060	126.67771	319.31149	24.65594	0.2646827	0.28962588	2.26	1.66	2.86	Mc	7 22.2	19.3
119866 2002 CL_{142}	15.7	X	204.38385	272.47340	221.96798	5.84580	0.3755065	0.22901666	2.65	1.65	3.64	Mc	8 23.5	20.9
119905 2002 EH_{10}	15.2	X	293.44010	274.07265	163.64635	22.71374	0.3788218	0.24003853	2.56	1.59	3.54	Mc	9 5.6	17.7
120352 Gordonwong	16.2	X	231.68036	199.36284	109.39002	6.16680	0.2826476	0.28632199	2.28	1.64	2.92	Mc	2 3.1	20.3
120414 4880 P–L	16.5	X	128.46400	286.28889	10.06026	11.01593	0.3219027	0.26340760	2.41	1.63	3.19	Mc	—	—
120450 1982 SV	15.9	X	74.12649	244.82704	188.94902	21.82289	0.3677293	0.26206296	2.42	1.53	3.31	Mc	2 13.3	18.1
120482 1992 TA	16.8	X	108.55594	80.72837	355.21485	25.99908	0.2892913	0.39167254	1.85	1.31	2.39	Mc	3 15.0	17.9
120644 1996 RM_{3}	15.2	X	293.66213	34.07758	358.00166	6.91015	0.3693469	0.23328731	2.61	1.65	3.58	Mc	7 5.9	18.6
120708 1997 MA_{2}	16.6	X	181.82516	214.23256	135.88729	3.57293	0.3053104	0.27404522	2.35	1.63	3.06	Mc	2 18.9	20.7
120900 1998 SP_{25}	16.5	X	53.04043	279.11114	56.71625	4.56164	0.2381295	0.30671814	2.18	1.66	2.70	Mc	—	—
120942 Rendafuzhong	17.4	X	140.81373	162.83314	164.27208	2.39174	0.2339921	0.31655206	2.13	1.63	2.63	Mc	—	—
120966 1998 VT_{29}	16.1	X	201.46845	142.41560	297.83883	3.37206	0.2876232	0.28736512	2.27	1.62	2.93	Mc	6 22.1	20.1
121007 1999 AT_{9}	15.8	X	250.56204	292.52043	113.95019	11.00974	0.3309995	0.28708128	2.28	1.52	3.03	Mc	6 15.2	19.5
121032 Wadesisler	16.6	X	327.89603	119.54350	115.92913	40.01358	0.2181840	0.39963124	1.83	1.43	2.22	Mc	1 12.2	18.6
121210 1999 QG_{2}	15.8	X	17.25978	157.75227	108.15705	8.39323	0.3336350	0.26765354	2.38	1.59	3.18	Mc	8 15.9	17.0
121514 1999 UJ_{7}	17.2	X	197.09219	48.46812	347.35023	16.74964	0.0392937	0.52365369	1.52	1.46	1.58	MT	3 17.0	17.5
121745 1999 XN_{207}	15.2	X	205.58759	268.49404	84.51658	23.75466	0.2836859	0.28975391	2.26	1.62	2.90	Mc	3 21.3	19.8
121863 2000 CO_{75}	16.2	X	229.85037	206.42245	181.18609	8.74977	0.2860762	0.29635005	2.23	1.59	2.87	Mc	5 9.2	20.1
122106 2000 HC_{86}	16.1	X	183.50487	218.07890	94.66509	7.58957	0.3170023	0.26340175	2.41	1.65	3.17	Mc	1 9.0	20.3
122119 2000 JP_{14}	16.4	X	175.44508	267.57407	52.64402	4.13356	0.2490257	0.31000385	2.16	1.62	2.70	Mc	—	—
122159 2000 JM_{81}	16.1	X	110.12884	74.60807	254.84633	5.07700	0.3409721	0.25539157	2.46	1.62	3.30	Mc	—	—
122180 2000 KV_{43}	17.4	X	177.98883	247.75178	246.97657	10.17889	0.1953794	0.47814823	1.62	1.30	1.94	Mc	8 16.7	19.4
122258 2000 OD_{44}	15.6	X	298.20817	2.76087	285.44747	8.39374	0.3395502	0.27227134	2.36	1.56	3.16	Mc	2 21.8	19.5
122259 2000 OH_{44}	15.8	X	357.81848	182.24237	172.53051	6.67181	0.2792600	0.28430791	2.29	1.65	2.93	Mc	11 21.8	17.4
122358 2000 QM_{49}	16.7	X	345.77438	176.73805	134.84918	1.42307	0.3230744	0.28021354	2.31	1.57	3.06	Mc	7 4.6	17.3
122421 2000 QZ_{101}	15.8	X	184.00127	205.75470	56.68446	6.48135	0.2586296	0.29983378	2.21	1.64	2.78	Mc	—	—
122463 2000 QP_{148}	15.4	X	195.26225	158.11836	157.61459	8.71572	0.3213787	0.30983581	2.16	1.47	2.86	Mc	1 14.3	19.3
124120 2001 KR_{2}	16.7	X	289.30666	227.78260	86.10351	5.78941	0.2717182	0.29159215	2.25	1.64	2.86	Mc	3 30.2	19.9
124136 2001 LT_{2}	16.5	X	313.09721	229.51481	80.82922	5.14287	0.2708231	0.29267527	2.25	1.64	2.86	Mc	4 22.4	19.0
124146 2001 MQ_{12}	16.7	X	279.95414	99.55321	218.63988	0.45332	0.2729224	0.28569864	2.28	1.66	2.91	Mc	3 23.6	20.2
124158 2001 OV_{2}	16.2	X	227.13643	47.46431	287.97541	6.00183	0.3373491	0.27950724	2.32	1.54	3.10	Mc	2 28.2	20.6
124162 2001 OQ_{13}	16.6	X	294.80289	224.14740	123.03197	7.21070	0.2717057	0.28905233	2.27	1.65	2.88	Mc	5 20.4	19.5
124165 2001 ON_{16}	15.9	X	231.10002	289.36077	74.29249	7.99850	0.3419436	0.28152216	2.31	1.52	3.09	Mc	4 10.9	20.2
124172 2001 OY_{23}	16.3	X	257.38097	254.36308	106.22182	6.71546	0.2902396	0.28692584	2.28	1.62	2.94	Mc	4 28.2	20.0
124192 Moletai	16.5	X	139.61953	1.96200	251.50242	5.82278	0.2835905	0.31126606	2.16	1.54	2.77	Mc	12 10.9	20.3
124200 2001 OM_{81}	15.2	X	21.56230	260.29977	150.45800	8.73630	0.3597844	0.25317569	2.47	1.58	3.37	Mc	—	—
124311 2001 QO_{73}	16.2	X	327.54557	114.75974	248.14757	2.82408	0.2571905	0.29584556	2.23	1.66	2.80	Mc	8 25.5	17.0
124329 2001 QU_{98}	16.0	X	204.78713	192.59988	165.51232	6.52463	0.2943847	0.27830535	2.32	1.64	3.01	Mc	3 15.6	20.2
124357 2001 QH_{129}	15.6	X	123.25205	258.79844	162.10502	21.97579	0.2956937	0.27299286	2.35	1.66	3.05	Mc	4 1.1	19.2
124499 2001 RK_{46}	16.0	X	264.30114	313.07529	26.29838	3.61254	0.3094157	0.28242137	2.30	1.59	3.01	Mc	4 3.5	19.9
124812 2001 SB_{284}	16.5	X	120.17712	293.99708	177.82391	22.38867	0.2951432	0.27723531	2.33	1.64	3.02	Mc	6 2.0	20.7
124834 2001 TH	15.3	X	247.07608	305.15218	84.76537	22.80914	0.2926157	0.28460721	2.29	1.62	2.96	Mc	5 27.9	19.2
125072 2001 UG	15.8	X	284.88627	63.02580	80.36102	7.04995	0.3506315	0.30188854	2.20	1.43	2.97	Mc	12 30.5	16.2
125458 2001 WR_{4}	15.2	X	342.77800	249.17567	96.28228	14.50879	0.3501507	0.24137376	2.55	1.66	3.45	Mc	9 12.6	16.5
125472 2001 WM_{14}	15.7	X	15.01231	357.73221	318.68603	4.76652	0.2616802	0.29226726	2.25	1.66	2.84	Mc	10 22.0	17.6
125475 2001 WA_{15}	16.8	X	86.20439	184.23559	159.52257	5.48776	0.2469984	0.30560530	2.18	1.64	2.72	Mc	—	—
126398 2002 BP_{9}	16.1	X	64.23159	87.71430	136.78422	3.89887	0.3273476	0.26954722	2.37	1.60	3.15	Mc	9 5.8	19.1
126410 2002 BU_{18}	14.8	X	314.43628	233.83572	147.12472	17.67560	0.3837891	0.23529807	2.60	1.60	3.60	Mc	7 19.9	17.4
127521 2002 VK_{14}	15.0	X	12.09596	239.67459	241.44312	23.21362	0.3289588	0.26890008	2.38	1.60	3.16	Mc	—	—
127535 2002 XL_{14}	16.4	X	29.84550	246.66755	81.21004	6.40642	0.2569302	0.31100981	2.16	1.60	2.71	Mc	12 8.0	18.8
127552 2002 YF_{5}	15.7	X	157.96572	326.07354	30.21000	24.03403	0.2956987	0.27421008	2.35	1.65	3.04	Mc	2 20.6	20.1
127688 2003 EC_{16}	15.6	X	219.33158	59.55098	329.85120	23.02434	0.2839257	0.28531831	2.29	1.64	2.93	Mc	4 19.6	20.2
127938 2003 HN_{2}	16.6	X	250.02452	72.81663	149.39014	26.63741	0.2801234	0.30738712	2.17	1.57	2.78	Mc	—	—
128353 2004 GK_{39}	16.0	X	39.98923	261.76456	80.53927	2.73794	0.2357645	0.30792168	2.17	1.66	2.68	Mc	—	—
128451 2004 NC_{25}	16.0	X	280.30705	3.46945	356.72901	7.94002	0.2967225	0.28004119	2.31	1.63	3.00	Mc	5 13.2	19.5
128472 2004 PS	16.1	X	194.91611	40.82678	306.90410	4.83185	0.3104849	0.26597352	2.39	1.65	3.14	Mc	2 24.3	20.6
129248 2005 QV_{33}	17.5	X	244.38853	356.38537	328.30609	1.59626	0.2649163	0.28990918	2.26	1.66	2.86	Mc	3 2.4	21.3
129322 2005 TN_{45}	16.5	X	269.36769	269.03144	17.16963	11.36869	0.2726419	0.28556662	2.28	1.66	2.91	Mc	2 7.8	20.5
129470 1993 KC	16.0	X	193.10070	37.82311	228.32247	25.28125	0.3566487	0.30059701	2.21	1.42	2.99	Mc	—	—
129493 1995 BM_{2}	15.4	X	166.29323	268.29416	247.90275	20.66203	0.3068144	0.27948555	2.32	1.61	3.03	Mc	8 20.9	20.2
129541 1996 PQ_{9}	14.8	X	36.29431	97.73402	328.13218	19.62917	0.3008444	0.28733122	2.27	1.59	2.96	Mc	—	—
129558 1996 XQ_{8}	17.1	X	13.42672	286.13676	40.07429	14.18519	0.3411224	0.27601752	2.34	1.54	3.13	Mc	11 15.7	19.1
129737 1999 AA_{9}	16.6	X	155.96976	334.97754	95.54969	4.43875	0.2661679	0.32492824	2.10	1.54	2.65	Mc	5 5.3	20.0
129813 1999 NJ	16.8	X	46.04751	199.27617	104.23924	6.40350	0.2937584	0.27546074	2.34	1.65	3.03	Mc	11 25.1	19.9
129989 1999 VS_{5}	16.7	X	66.05377	160.11267	149.45740	1.14138	0.3740120	0.27399023	2.35	1.47	3.23	Mc	12 26.7	20.7
130216 2000 AC_{238}	15.1	X	61.76171	91.28881	253.84542	22.17290	0.3242567	0.27582755	2.34	1.58	3.10	Mc	—	—
130386 2000 JY_{33}	15.7	X	93.29985	76.10653	281.89771	5.14939	0.2968765	0.30431498	2.19	1.54	2.84	Mc	—	—
130395 2000 LX_{25}	15.3	X	233.68588	65.60028	217.69287	23.62118	0.2342332	0.30991529	2.16	1.66	2.67	Mc	—	—
130415 2000 OH_{57}	15.0	X	304.44971	316.74772	128.01917	25.47600	0.2821098	0.28880719	2.27	1.63	2.91	Mc	11 29.7	17.0
130480 2000 QE_{97}	16.4	X	317.37753	342.66943	68.35955	2.81897	0.2789514	0.28298843	2.30	1.66	2.94	Mc	10 25.4	17.0
131045 2000 YH_{32}	16.4	X	207.69779	240.82084	136.09272	4.44531	0.2689101	0.30876059	2.17	1.58	2.75	Mc	4 8.8	20.1
131596 2001 XK	14.7	X	39.03420	278.20664	205.06014	20.56559	0.3253412	0.25816910	2.44	1.65	3.24	Mc	1 4.9	16.6
131634 2001 XN_{68}	15.2	X	169.84503	218.83578	309.64296	23.45383	0.2834837	0.28028134	2.31	1.66	2.97	Mc	9 6.3	19.7
131702 2001 YZ_{3}	14.7	X	316.24270	223.23182	283.46660	30.51133	0.4019427	0.24974962	2.50	1.49	3.50	Mc	—	—
131774 2002 AZ_{18}	15.2	X	239.40500	293.79806	119.38683	23.21261	0.3132966	0.27984714	2.31	1.59	3.04	Mc	6 18.5	19.4
131777 2002 AE_{21}	16.6	X	183.67189	299.28336	42.88042	2.82604	0.2469594	0.31375568	2.14	1.62	2.67	Mc	2 4.0	20.0
131823 2002 AY_{97}	15.9	X	148.40248	345.76803	339.86428	4.60884	0.2445824	0.30550792	2.18	1.65	2.72	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
131905 2002 BQ_9	15.6	X	147.23882	121.53763	129.11243	9.17259	0.2905627	0.28521112	2.29	1.62	2.95	Mc	12 11.0	19.9
132124 2002 CW_{237}	14.7	X	162.63725	121.46475	31.22706	23.32348	0.2961353	0.27432170	2.35	1.65	3.04	Mc	9 6.1	19.4
132720 2002 PK_1	15.8	X	171.01845	131.24627	219.16485	2.44521	0.3715804	0.23234665	2.62	1.65	3.59	Mc	2 17.6	20.7
133027 2002 XJ_4	17.3	X	75.19550	262.88746	51.00197	15.09965	0.2022294	0.41854451	1.77	1.41	2.13	Mc	—	—
133039 2003 AJ_{34}	18.0	X	196.52871	292.20205	171.35780	3.54312	0.2090360	0.34957420	2.00	1.58	2.41	Mc	7 20.6	21.0
133043 2003 BC_{43}	17.3	X	36.26831	255.42832	84.74932	10.07277	0.1526694	0.41110743	1.79	1.52	2.06	Mc	—	—
133048 2003 CG_{15}	15.4	X	179.83818	227.22934	6.57346	27.25009	0.2476621	0.30246837	2.20	1.65	2.74	Mc	12 14.2	19.6
133059 2003 EC_{58}	15.4	X	122.18666	116.02652	73.09228	23.92086	0.2827708	0.28588263	2.28	1.64	2.93	Mc	9 23.0	19.9
133090 2003 MS_9	16.0	X	346.24763	137.99090	223.61506	2.30452	0.3837490	0.27392208	2.35	1.45	3.25	Mc	11 15.6	16.2
133249 2003 RS_6	16.4	X	138.36308	150.56227	121.64785	8.47526	0.2816197	0.29016686	2.26	1.62	2.90	Mc	12 29.9	20.5
133531 2003 TJ_5	16.4	X	51.50473	272.54152	33.40875	22.20375	0.2936124	0.27980186	2.32	1.64	2.99	Mc	11 27.5	20.0
133554 2003 UN_5	15.7	X	358.30236	139.67459	215.32094	5.13572	0.3315144	0.27915705	2.32	1.55	3.09	Mc	11 30.8	17.2
133577 2003 UB_{50}	16.3	X	242.66891	198.83647	113.80478	6.17263	0.2383816	0.30660985	2.18	1.66	2.70	Mc	2 14.9	20.0
133620 2003 UU_{119}	15.8	X	298.62267	263.40628	92.03189	14.25674	0.3334569	0.26610718	2.39	1.60	3.19	Mc	5 28.8	18.9
133819 2003 XS	16.1	X	31.75107	331.03034	2.98541	6.23683	0.3687164	0.27599477	2.34	1.47	3.20	Mc	12 27.6	19.4
134341 1979 MA	15.2	X	42.25701	288.12249	284.35612	21.29151	0.3263336	0.25797716	2.44	1.65	3.24	Mc	7 12.7	17.2
134371 1995 RH	15.7	X	11.97809	260.50161	98.25834	23.59396	0.3106540	0.26812938	2.38	1.64	3.12	Mc	12 24.9	18.1
134509 1999 FC_8	16.7	X	218.25836	83.80595	187.23064	5.69709	0.2483716	0.29978507	2.21	1.66	2.76	Mc	—	—
134681 1999 XC_{25}	15.6	X	2.28793	257.22082	70.75477	8.29604	0.3123162	0.26709335	2.39	1.64	3.13	Mc	10 22.1	17.1
134705 1999 XA_{186}	15.4	X	29.24814	33.50466	283.40964	12.43226	0.3030132	0.26716051	2.39	1.66	3.11	Mc	11 18.7	18.4
134863 2000 PX_5	17.6	X	302.68338	341.41961	11.78309	4.56011	0.3581735	0.32385729	2.10	1.35	2.85	Mc	5 19.9	19.9
134896 2000 WH_{13}	17.0	X	250.86437	239.75600	103.47605	5.12447	0.2255438	0.31326704	2.15	1.66	2.63	Mc	4 2.9	20.4
134928 2001 AG_2	16.5	X	110.01624	288.26977	69.19705	2.62309	0.2630605	0.28995607	2.26	1.67	2.86	Mc	—	—
134970 2001 EZ_9	14.6	X	249.43341	296.54890	0.02235	29.66774	0.3660703	0.23824164	2.58	1.63	3.52	Mc	2 15.6	19.9
136146 2003 SA_{294}	17.0	X	208.06435	215.74887	102.60617	4.17845	0.2451718	0.30250514	2.20	1.66	2.74	Mc	1 25.9	20.8
136149 2003 SR_{313}	16.8	X	213.22351	257.80622	68.86333	7.91003	0.2896268	0.30570310	2.18	1.55	2.81	Mc	2 11.9	20.7
136568 1980 XB	14.4	X	232.85919	41.66813	70.51167	23.76030	0.3697967	0.25860841	2.44	1.54	3.34	Mc	8 30.1	19.1
136620 1994 JC	14.9	X	154.50212	138.26182	37.11403	31.25862	0.5206969	0.16135410	3.34	1.60	5.08	Jc	9 28.8	22.0
136698 1995 SO_{63}	17.1	X	80.91885	119.55761	206.31487	1.33467	0.3396272	0.27393899	2.35	1.55	3.15	Mc	—	—
136864 1998 FB_{41}	16.3	X	164.76518	72.88255	177.75418	4.70530	0.2886566	0.27840882	2.32	1.65	2.99	Mc	12 21.3	20.5
136926 1998 MY	16.1	X	25.54049	91.12115	220.00922	7.82235	0.3437280	0.26295912	2.41	1.58	3.24	Mc	11 13.9	18.6
137069 1998 WQ_{15}	16.1	X	221.33086	331.41369	77.50983	9.52277	0.3577711	0.24454971	2.53	1.63	3.44	Mc	5 27.2	20.7
137173 1999 JY_4	16.6	X	253.52527	248.79676	29.62841	8.92879	0.2446801	0.30183596	2.20	1.66	2.74	Mc	1 13.7	20.5
137176 1999 JZ_{11}	16.2	X	238.51310	204.81128	124.28662	4.38545	0.2634146	0.30558292	2.18	1.61	2.76	Mc	3 3.4	19.9
137184 1999 JG_{63}	14.1	X	102.70039	248.17749	50.24068	8.01702	0.5579071	0.19362660	2.96	1.31	4.61	Mc	—	—
137201 1999 KF_{13}	17.3	X	287.30839	149.17107	132.36018	3.76529	0.2620532	0.30557480	2.18	1.61	2.76	Mc	2 11.1	20.6
137206 1999 LJ_{25}	16.6	X	223.29357	201.48734	102.17451	7.04982	0.2809009	0.29871348	2.22	1.59	2.84	Mc	1 20.6	20.5
137208 1999 MC_2	16.3	X	163.75251	199.99174	116.76544	7.77503	0.2865754	0.28975989	2.26	1.61	2.91	Mc	—	—
137230 1999 RG_{22}	15.4	X	350.26615	75.38395	355.39058	22.39691	0.2968442	0.27543809	2.34	1.65	3.03	Mc	—	—
137238 1999 RN_{29}	15.6	X	28.18387	254.64284	185.20055	21.68461	0.3559538	0.28247709	2.30	1.48	3.12	Mc	—	—
137284 1999 RZ_{182}	17.2	X	177.25622	129.60297	167.88375	6.43106	0.2845417	0.28926559	2.26	1.62	2.91	Mc	—	—
137304 1999 SK_{12}	16.5	X	173.00280	348.86772	330.94882	4.71044	0.2808189	0.29098626	2.26	1.62	2.89	Mc	1 3.8	20.1
137444 1999 TE_{245}	14.4	X	122.63110	115.34303	272.36033	20.24284	0.2863302	0.28278892	2.30	1.64	2.96	Mc	2 2.4	17.8
137504 1999 VO_{21}	16.6	X	82.45692	115.07899	223.91900	11.09928	0.3186242	0.27900633	2.32	1.58	3.06	Mc	—	—
137722 1999 XN_{104}	16.0	X	135.11902	119.65368	264.85990	23.56112	0.3031038	0.28730298	2.27	1.59	2.96	Mc	2 9.4	19.9
138131 2000 ES_{20}	16.1	X	252.60057	248.57579	177.81563	22.73266	0.3392481	0.25654707	2.45	1.62	3.29	Mc	7 9.5	20.6
138402 2000 HN_{14}	16.4	X	266.39602	287.53784	130.84671	7.15186	0.1538664	0.38708887	1.86	1.58	2.15	Mc	8 17.3	17.6
138843 2000 VF_{39}	18.2	X	244.95073	220.69040	46.54065	33.79055	0.1649948	0.49273884	1.59	1.33	1.85	Mc	—	—
138868 2000 XR_{15}	17.2	X	178.72364	340.44808	330.81503	11.09770	0.1059644	0.48795207	1.60	1.43	1.77	Mc	—	—
138970 2001 CV_{19}	16.7	X	244.74046	264.45565	266.02404	21.06409	0.0525673	0.47305360	1.63	1.55	1.72	Mc	—	—
138977 2001 CY_{31}	17.4	X	42.19403	139.95727	32.94117	25.71463	0.0410454	0.44413493	1.70	1.63	1.77	Mc	3 18.2	19.1
138978 2001 CD_{32}	16.1	X	154.98127	125.59978	322.73144	50.32648	0.2549869	0.40503011	1.81	1.35	2.27	Mc	—	—
139092 2001 FU_{32}	15.4	X	0.57455	244.44584	223.97006	22.01188	0.3030355	0.28258165	2.30	1.60	3.00	Mc	—	—
139359 2001 ME_1	16.4	X	222.12393	302.28893	84.63498	5.95131	0.8699487	0.23058652	2.63	0.34	4.93	Ja	4 22.6	23.0
140265 2001 SL_{270}	15.5	X	296.61282	226.00269	109.79813	14.73867	0.3564152	0.23848057	2.58	1.66	3.49	Mc	5 2.7	19.5
141535 2002 GG_5	16.5	X	209.26857	98.11176	187.03283	2.33287	0.2788419	0.29401860	2.24	1.62	2.86	Mc	—	—
141690 2002 JM_{143}	17.2	X	203.24069	69.29584	234.06394	2.84786	0.2886128	0.29404365	2.24	1.59	2.89	Mc	1 6.2	21.0
141742 2002 LT_{36}	16.1	X	169.80196	78.30826	255.36001	6.65550	0.3148768	0.28583570	2.28	1.56	3.00	Mc	1 19.3	19.9
141753 2002 LL_{53}	16.4	X	120.52585	221.50060	120.75314	10.47874	0.2810734	0.28465928	2.29	1.65	2.93	Mc	—	—
141756 2002 LP_{58}	16.2	X	205.33605	197.99155	94.66888	5.59528	0.2809457	0.28781595	2.27	1.63	2.91	Mc	—	—
141776 2002 NY_8	16.3	X	79.31444	242.24679	117.84017	6.31810	0.2863276	0.27680089	2.33	1.66	3.00	Mc	—	—
141808 2002 NV_{38}	16.1	X	191.52129	59.74824	284.15605	4.24969	0.3114163	0.28728146	2.27	1.57	2.98	Mc	2 15.6	20.1
141988 2002 PB_{139}	16.4	X	1.34936	185.70675	212.69575	4.47490	0.3219089	0.26598151	2.39	1.62	3.17	Mc	—	—
142030 2002 QG_6	15.0	X	27.88764	90.22971	295.68083	22.61957	0.3147422	0.26571671	2.40	1.64	3.15	Mc	—	—
142803 2002 UM_{27}	16.3	X	169.37916	36.99697	245.19837	4.46777	0.2908704	0.27635590	2.33	1.66	3.01	Mc	—	—
142944 2002 VT_{69}	15.0	X	116.41019	14.67693	23.91012	12.00898	0.2975535	0.28389419	2.29	1.61	2.98	Mc	2 25.0	18.1
142989 2002 VK_{90}	16.2	X	69.45545	249.00176	99.40153	11.85321	0.3260165	0.26916882	2.38	1.60	3.15	Mc	—	—
143081 2002 XC_5	15.9	X	125.93558	240.47985	117.61367	9.08021	0.3490305	0.27729976	2.33	1.52	3.14	Mc	1 16.7	18.8
143243 2002 YA_{26}	13.9	X	111.06149	233.75178	107.05710	19.06070	0.4450539	0.16455609	3.30	1.83	4.77	Ja	1 11.7	19.1
143257 2003 AE	16.5	X	70.76247	265.66579	113.92025	21.97625	0.3501769	0.27140472	2.36	1.54	3.19	Mc	—	—
143303 2003 AF_{40}	14.9	X	237.89752	80.20283	285.71490	14.44387	0.3590301	0.23735503	2.58	1.66	3.51	Mc	4 9.5	20.0
144753 2004 HF_1	15.4	X	321.35273	313.96431	123.94052	26.28940	0.3117566	0.26456522	2.40	1.65	3.15	Mc	12 27.3	16.9
144870 2004 MA_8	14.3	X	349.24582	185.49231	32.68676	13.15138	0.5466043	0.16663601	3.27	1.48	5.06	Jc	1 18.9	18.0
144908 2004 YH_{32}	12.9	X	246.36388	348.65143	47.73958	79.08370	0.5655722	0.04223867	8.17	3.55	12.78	Jc	5 7.1	23.5
145485 2005 UN_{398}	14.2	X	220.01405	233.58323	141.22279	11.55951	0.5195167	0.10034095	4.59	2.20	6.97	Jc	4 20.7	22.4
145627 2006 RY_{102}	11.0	X	279.94287	346.86606	94.48910	18.68981	0.2804543	0.06167858	6.34	4.56	8.12	Jc	8 31.2	19.0
145720 1993 OX_7	15.9	X	230.10341	233.58489	127.48873	6.83014	0.3582654	0.23745615	2.58	1.66	3.51	Mc	4 8.5	20.8
145857 1999 EY_2	15.6	X	353.38416	286.62441	154.46918	21.20538	0.3708545	0.26193409	2.42	1.52	3.32	Mc	—	—
145888 1999 TT_{103}	16.4	X	230.16421	106.27569	223.35566	4.68462	0.2542948	0.29733519	2.22	1.66	2.79	Mc	2 23.5	20.4
145962 Lacchini	15.6	X	82.53310	79.62686	116.55613	24.84079	0.3255818	0.29096400	2.26	1.52	2.99	Mc	8 21.2	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
145963 1999 YC_7	15.8	X	339.00704	245.76743	321.85957	20.75897	0.2882885	0.28191194	2.30	1.64	2.97	Mc	1 6.6	18.9
146134 2000 SE_1	16.0	X	170.69899	315.44629	289.66575	28.49372	0.2706644	0.39056558	1.85	1.35	2.36	Mc	—	—
147057 2002 RY_{106}	15.4	X	158.93443	110.89669	237.40029	4.33983	0.2812015	0.28137460	2.31	1.66	2.96	Mc	1 26.2	19.0
147083 2002 SA_{37}	16.8	X	294.05104	300.61074	5.43123	2.58118	0.2518302	0.29900813	2.21	1.66	2.77	Mc	3 23.2	19.8
147431 2003 JA	17.8	X	177.29521	5.74638	91.67431	9.97335	0.0830756	0.44142993	1.71	1.57	1.85	Mc	6 21.6	19.2
147719 2005 LL_{48}	16.0	X	119.49796	2.61836	325.35124	5.25659	0.3161577	0.26952377	2.37	1.62	3.12	Mc	—	—
147874 2006 QP_{39}	16.4	X	355.51557	162.86509	192.21029	5.57281	0.3212691	0.26467838	2.40	1.63	3.17	Mc	11 17.3	17.8
147988 1995 YS_1	17.8	X	199.19988	124.51399	240.01968	2.02357	0.3239119	0.36172983	1.95	1.32	2.58	Mc	3 12.3	21.1
147997 1996 RH_{26}	16.7	X	12.56065	322.45691	3.03048	4.25357	0.2286244	0.31728167	2.13	1.64	2.62	Mc	11 1.4	18.4
148433 2000 XW	16.3	X	351.03370	75.61163	85.42889	24.49823	0.1902892	0.34541317	2.01	1.63	2.39	Mc	—	—
148480 2001 FE_{155}	17.1	X	66.87298	73.76123	139.57656	2.37494	0.2607614	0.30197920	2.20	1.63	2.77	Mc	8 15.5	19.4
149193 2002 LO_{27}	15.5	X	134.67538	48.45763	300.15999	10.72270	0.2788967	0.28338352	2.30	1.66	2.94	Mc	1 4.3	18.5
149223 2002 RM_{65}	16.0	X	91.62168	278.68715	65.38530	8.41526	0.3328144	0.27146254	2.36	1.58	3.15	Mc	—	—
149537 2003 GE_{42}	14.6	X	92.60974	101.29799	165.64450	27.85975	0.3752758	0.23070270	2.63	1.64	3.62	Mc	11 25.1	19.9
149592 2004 CU_{51}	16.0	X	89.49402	234.00335	147.50722	21.91580	0.3041124	0.28186485	2.30	1.60	3.00	Mc	—	—
149639 2004 FU_2	16.6	X	207.94827	269.54245	157.12539	3.62737	0.2818768	0.30428921	2.19	1.57	2.81	Mc	6 9.8	20.4
150165 1997 UG_9	15.7	X	180.98658	13.80774	34.10636	8.04814	0.3806733	0.22987525	2.64	1.63	3.64	Mc	5 1.2	20.8
150340 1999 XH_{31}	16.1	X	193.10171	123.67675	246.99748	3.74340	0.3198595	0.29229365	2.25	1.53	2.97	Mc	3 19.9	20.2
151364 2002 DN_3	17.1	X	313.13828	211.67731	21.39484	16.49377	0.1313030	0.41131777	1.79	1.56	2.03	Mc	—	—
151517 2002 PQ_{113}	15.2	X	78.37603	90.99003	318.25944	20.98335	0.3274348	0.27436993	2.35	1.58	3.11	Mc	1 11.1	16.8
151525 2002 RA_{50}	17.4	X	9.70913	177.87961	136.29064	3.69892	0.2292637	0.31206802	2.15	1.66	2.65	Mc	10 9.8	18.7
151703 2003 BU_{21}	15.8	X	327.72087	156.82905	246.31453	7.45457	0.3323787	0.25470242	2.46	1.65	3.28	Mc	10 30.9	16.6
151723 2003 BX_{63}	15.9	X	255.06878	283.54418	153.09963	12.10835	0.3464609	0.24424310	2.53	1.66	3.41	Mc	7 24.4	20.2
151888 2003 YV_{117}	15.6	X	182.55209	351.43061	153.78009	28.04526	0.3370517	0.30824952	2.17	1.44	2.90	Mc	8 29.1	19.5
152603 1995 VF_2	17.8	X	43.52109	262.31911	54.60612	3.87280	0.3000982	0.30565008	2.18	1.53	2.84	Mc	12 13.8	20.6
152627 1997 DF	18.1	X	335.40822	268.58256	145.78669	18.67283	0.1465886	0.51489353	1.54	1.32	1.77	Mc	—	—
152667 1998 FR_{11}	16.3	X	317.47343	158.59581	129.87160	6.66721	0.7064905	0.20908826	2.81	0.83	4.80	Ja	2 9.6	21.3
152704 1998 SD_4	18.5	X	109.20347	144.12763	181.78166	13.67262	0.1252752	0.52865405	1.51	1.33	1.70	Mc	—	—
152739 1998 WC_{32}	16.6	X	355.61951	318.39467	34.20814	6.65275	0.2499797	0.29942062	2.21	1.66	2.77	Mc	11 9.1	17.9
152741 1998 WT_{42}	16.6	X	115.81239	45.29670	301.74985	2.38823	0.3046136	0.27063758	2.37	1.65	3.09	Mc	—	—
152748 1998 YF_{27}	17.2	X	228.13468	32.66695	119.60312	46.29341	0.1966069	0.38072424	1.89	1.51	2.26	Mc	12 3.8	20.4
152771 1999 RB_{34}	15.3	X	69.33910	104.54752	183.80330	27.77370	0.3875880	0.23192089	2.62	1.61	3.64	Mc	12 2.0	20.3
152858 1999 XN_{35}	15.5	X	234.03230	307.45999	54.90598	23.29166	0.3249557	0.29619428	2.23	1.50	2.95	Mc	4 16.7	19.8
152864 1999 XT_{143}	16.7	X	268.11646	257.16318	100.48404	2.74146	0.3612359	0.30032252	2.21	1.41	3.01	Mc	4 24.8	20.4
152948 2000 FP_{32}	16.9	X	79.74676	82.44434	50.68562	2.59747	0.2790470	0.28431450	2.29	1.65	2.93	Mc	5 9.7	19.1
153011 2000 JN_{78}	17.0	X	54.55913	119.42396	111.43785	17.92934	0.2225133	0.42857151	1.74	1.35	2.13	Mc	9 3.0	18.7
153305 2001 HV_{62}	16.8	X	91.64246	244.79859	75.78727	2.03860	0.2505312	0.31446289	2.14	1.61	2.68	Mc	—	—
153309 2001 KB_{68}	15.2	X	284.47182	125.90148	104.09150	24.32201	0.2811936	0.27990824	2.31	1.66	2.97	Mc	—	—
153344 2001 OR_{106}	16.0	X	316.50899	349.81778	302.71772	8.08748	0.2759058	0.28768111	2.27	1.65	2.90	Mc	3 25.2	19.0
153452 2001 QQ_{286}	16.0	X	263.06779	248.72213	183.57624	26.45553	0.3562332	0.24227237	2.55	1.64	3.46	Mc	7 22.9	20.6
153474 2001 RK_{43}	16.2	X	85.43930	233.78946	49.66920	9.39955	0.3743455	0.30500790	2.19	1.37	3.00	Mc	12 11.6	20.3
153542 2001 SS_{107}	15.4	X	189.22086	253.84127	227.47292	20.47946	0.5053656	0.17836801	3.13	1.55	4.71	Mc	7 23.7	22.1
153692 2001 US_{17}	17.6	X	254.93182	261.00404	251.35701	17.88073	0.2068839	0.44936365	1.69	1.34	2.04	Mc	—	—
154331 2002 VF_{95}	17.4	X	30.32757	158.97981	186.31399	4.68359	0.2670036	0.31500993	2.14	1.57	2.71	Mc	—	—
154661 2004 FL_{32}	15.3	X	269.87363	338.83783	97.03989	28.68896	0.3662772	0.31102677	2.16	1.37	2.95	Mc	8 10.9	18.6
154783 2004 PA_{44}	13.6	X	115.60631	72.93771	212.52607	3.27994	0.7596976	0.01835801	14.23	3.42	25.04	Jc	12 23.7	27.2
155002 2005 NN_{102}	16.2	X	92.61298	191.99133	150.92993	2.70126	0.3469611	0.26364032	2.41	1.57	3.24	Mc	—	—
155287 2005 XK_1	16.9	X	86.51573	178.32710	166.84977	2.34399	0.2687225	0.32061269	2.11	1.55	2.68	Mc	—	—
155370 1988 TX	16.3	X	44.95167	137.02370	207.03316	4.78865	0.3150958	0.30343071	2.19	1.50	2.88	Mc	—	—
155390 1994 PP_{29}	16.8	X	346.07897	118.71069	197.03202	4.03901	0.2922815	0.29115442	2.25	1.60	2.91	Mc	7 19.2	17.3
155455 1998 ML_{24}	16.7	X	77.59992	221.22304	98.03373	6.93480	0.2873675	0.31079374	2.16	1.54	2.78	Mc	—	—
155684 2000 JT_{54}	16.9	X	276.47172	105.48023	199.78765	4.37436	0.3363533	0.27418247	2.35	1.56	3.14	Mc	2 27.2	20.8
155725 2000 RO_8	16.9	X	105.10078	234.47218	180.14372	17.93542	0.3440653	0.34921190	2.00	1.31	2.68	Mc	2 18.3	18.6
155785 2000 SS_{351}	16.3	X	184.99133	232.93057	103.67507	11.60928	0.3459659	0.25963401	2.43	1.59	3.28	Mc	2 9.9	20.9
155928 2001 PO_{43}	16.6	X	333.21354	283.93250	49.17420	4.84766	0.3065924	0.29415335	2.24	1.55	2.93	Mc	7 6.2	17.4
155958 2001 QL_{106}	15.8	X	88.30606	300.66880	23.76347	22.59990	0.3317396	0.30635151	2.18	1.46	2.90	Mc	—	—
156015 2001 RX_{81}	16.2	X	227.01705	329.65288	38.88575	7.68763	0.3071417	0.27877263	2.32	1.61	3.03	Mc	4 12.9	20.4
156032 2001 RP_{142}	16.3	X	172.16212	313.53046	83.90824	5.93036	0.3038017	0.27483940	2.34	1.63	3.05	Mc	4 12.1	20.5
156716 2002 RK_{27}	17.3	X	17.08982	131.93663	128.19120	3.72023	0.1526248	0.35807368	1.96	1.66	2.26	Mc	7 5.9	17.8
156720 2002 TY_{66}	16.3	X	53.93633	270.23114	202.41679	21.06590	0.3550888	0.27879667	2.32	1.50	3.14	Mc	2 2.5	17.8
157111 2004 LU_{23}	16.4	X	259.32796	132.34756	220.79830	3.65081	0.3142197	0.27648080	2.33	1.60	3.07	Mc	4 15.8	20.5
157120 2004 NH_4	16.6	X	318.44685	245.74714	88.46381	4.92458	0.2860803	0.28553347	2.28	1.63	2.94	Mc	6 3.6	18.7
157185 2004 PX_{89}	16.8	X	1.78541	300.10647	5.00323	3.60886	0.3377230	0.28876164	2.27	1.50	3.03	Mc	9 13.5	17.0
157287 2004 RS_{292}	16.5	X	34.80925	213.02827	89.13132	11.79285	0.2884955	0.29478209	2.24	1.59	2.88	Mc	11 14.4	19.2
157780 7620 P–L	16.4	X	276.22038	269.79002	31.98586	5.51580	0.3100827	0.27050414	2.37	1.63	3.10	Mc	2 28.8	20.3
157995 2000 LF_{26}	16.1	X	325.96502	139.64312	173.20100	11.11519	0.2963097	0.28013301	2.31	1.63	3.00	Mc	5 15.9	18.4
158091 2000 WH_{56}	14.7	X	234.15432	69.37792	303.04883	20.61028	0.3503667	0.26205637	2.42	1.57	3.27	Mc	4 9.7	19.7
158105 2000 YH_{12}	15.3	X	343.15610	229.83789	96.06548	24.32255	0.2988116	0.27927564	2.32	1.63	3.01	Mc	8 2.3	16.5
158153 2001 KE_{49}	17.4	X	191.76513	85.87134	224.86975	1.62075	0.2253719	0.32574686	2.09	1.62	2.56	Mc	—	—
158209 2001 SG_{59}	17.3	X	77.14598	166.16610	165.63436	3.81520	0.2382915	0.30579560	2.18	1.66	2.70	Mc	—	—
158234 2001 SG_{282}	17.4	X	115.85677	83.83828	211.72579	3.49065	0.2506145	0.30748150	2.17	1.63	2.72	Mc	—	—
158299 2001 UC_{126}	17.0	X	72.42130	201.54480	103.49732	9.24078	0.2752120	0.30287883	2.20	1.59	2.80	Mc	12 22.6	20.4
158853 2004 NJ_{32}	16.7	X	279.77781	188.97573	154.19459	8.25670	0.3120571	0.27805936	2.32	1.60	3.05	Mc	4 24.2	20.4
158985 2004 RB_{330}	17.4	X	37.40844	70.55603	234.01867	5.10909	0.2567721	0.29524161	2.23	1.66	2.81	Mc	11 12.5	19.7
159111 2004 VG_{15}	16.5	X	254.20275	169.05146	163.15183	10.91729	0.3047979	0.27081831	2.37	1.64	3.09	Mc	3 19.9	20.5
159367 1977 OX	15.5	X	75.64393	226.65343	100.69907	16.09747	0.4880944	0.15944396	3.37	1.72	5.01	Jc	—	—
159368 1979 QB	17.0	X	262.73325	12.58163	342.17976	3.33598	0.4409391	0.27677063	2.33	1.30	3.36	Mc	4 10.8	21.4
159414 1999 RN_{178}	15.7	X	357.72110	222.33094	149.20023	5.30003	0.3791723	0.22663220	2.66	1.65	3.67	Mc	12 15.9	17.8
159463 2000 PM_7	16.2	X	269.04361	231.95379	89.65201	7.95144	0.3385863	0.26968720	2.37	1.57	3.18	Mc	3 18.9	20.4
159465 2000 QJ_2	15.0	X	314.42530	111.35289	284.65487	22.14939	0.2938909	0.28124345	2.31	1.63	2.99	Mc	8 23.9	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
159477 2000 SE	16.5	X	231.80335	135.88984	210.94709	6.54510	0.3608242	0.26742333	2.39	1.53	3.25	Mc	3 17.6	21.0
159482 2000 SF_{166}	15.7	X	343.83331	84.52869	237.54464	6.61887	0.2854283	0.27902725	2.32	1.66	2.98	Mc	7 22.6	16.7
159490 2000 TM_{29}	16.2	X	306.96521	7.38035	319.91986	7.74775	0.2954482	0.27287432	2.35	1.66	3.05	Mc	4 29.7	19.2
159493 2000 UA	14.3	X	290.80098	96.91799	322.40467	21.84427	0.3377620	0.27720452	2.33	1.54	3.12	Mc	8 15.7	16.4
159542 2001 QN_{294}	17.0	X	216.86348	348.68179	264.07636	3.26260	0.2342139	0.32062129	2.11	1.62	2.61	Mc	—	—
159571 2001 VM_{4}	16.8	X	111.84958	88.97271	245.46158	2.51685	0.2320192	0.30901126	2.17	1.66	2.67	Mc	—	—
159612 2002 AV_{17}	16.1	X	334.72094	235.23054	118.40050	9.15889	0.3138623	0.28772286	2.27	1.56	2.99	Mc	8 31.6	16.5
159781 2003 MZ_{7}	15.5	X	218.32904	136.31054	235.93919	10.81394	0.3549268	0.25914006	2.44	1.57	3.30	Mc	4 7.9	20.2
159793 2003 QJ_{64}	15.8	X	110.96093	230.00873	117.02992	5.69341	0.3624584	0.23585537	2.59	1.65	3.53	Mc	—	—
159859 2004 LE_{23}	15.7	X	309.98086	241.40266	108.05208	24.98618	0.3011049	0.28693057	2.28	1.59	2.96	Mc	6 13.3	18.3
159882 2004 RQ_{289}	16.6	X	79.58410	197.01724	131.06463	9.43758	0.2654695	0.30125399	2.20	1.62	2.79	Mc	—	—
159889 2004 TR_{14}	16.0	X	94.63284	92.62144	54.91133	40.01959	0.2308780	0.43642044	1.72	1.32	2.12	Mc	5 27.6	17.4
159898 2004 TO_{216}	16.8	X	125.54279	11.65824	291.09602	2.43178	0.2711755	0.30581568	2.18	1.59	2.77	Mc	—	—
159927 2005 CL_{57}	15.2	X	74.38052	125.57629	235.35761	3.69046	0.3652610	0.23746668	2.58	1.64	3.53	Mc	—	—
160085 2000 LJ_{6}	15.6	X	32.75996	120.81284	211.58949	22.72418	0.2956201	0.29006290	2.26	1.59	2.93	Mc	12 17.1	19.0
160092 2000 PL_{6}	14.8	X	232.47315	67.30894	323.01289	21.69252	0.3574191	0.26899456	2.38	1.53	3.23	Mc	4 30.9	19.7
160137 2001 BU_{41}	15.1	X	255.17644	85.15119	308.29491	20.48321	0.3292913	0.26605926	2.39	1.61	3.18	Mc	5 31.9	19.5
160361 2003 YD_{66}	15.9	X	111.56507	233.98160	148.03133	6.79684	0.3622640	0.23724503	2.58	1.65	3.52	Mc	2 8.6	19.4
160510 1990 RG_{1}	15.9	X	358.51243	27.96882	359.47660	6.58567	0.2676669	0.28969647	2.26	1.66	2.87	Mc	—	—
160519 1995 CS_{3}	16.5	X	29.33516	93.41293	246.36286	1.94221	0.3359130	0.28742744	2.27	1.51	3.04	Mc	12 29.8	19.5
160541 1997 WM_{58}	15.8	X	325.19053	303.52504	114.02813	7.89326	0.2692278	0.28848715	2.27	1.66	2.88	Mc	12 9.4	16.7
160707 2000 QP_{10}	16.5	X	340.42648	36.00114	316.93522	3.56432	0.2941425	0.28298152	2.30	1.62	2.97	Mc	9 18.1	17.0
160761 2000 SE_{105}	16.6	X	336.05516	286.01366	39.24850	5.16742	0.2957917	0.27795176	2.33	1.64	3.01	Mc	7 1.9	17.8
160895 2001 SN_{107}	16.6	X	115.72735	2.37099	337.45165	6.65274	0.2420293	0.31037072	2.16	1.64	2.68	Mc	—	—
161001 2002 CG_{310}	16.2	X	355.47822	78.31408	297.55095	3.56741	0.2706039	0.28928616	2.26	1.65	2.88	Mc	12 18.8	17.9
161081 2002 NR_{2}	16.1	X	62.94176	105.97102	258.29155	9.11539	0.3124965	0.27739881	2.33	1.60	3.06	Mc	—	—
161291 2003 HV_{29}	16.1	X	278.18313	92.40444	218.93949	4.46363	0.3138359	0.26641076	2.39	1.64	3.14	Mc	3 10.1	20.0
161513 2004 RK_{195}	16.7	X	160.53988	335.52117	313.70007	4.37457	0.2302584	0.31053410	2.16	1.66	2.66	Mc	—	—
161551 2004 XO_{72}	16.4	X	4.65253	316.86749	35.41533	4.97621	0.2769169	0.28608781	2.28	1.65	2.91	Mc	11 29.9	18.3
161634 2005 YN_{277}	16.6	X	269.89660	69.04993	281.01125	2.17814	0.2701038	0.28861522	2.27	1.66	2.88	Mc	4 23.6	20.1
161775 2006 TG_{108}	15.9	X	112.60385	282.88521	104.92774	22.75820	0.2811786	0.28642573	2.28	1.64	2.92	Mc	1 28.6	18.6
161972 2007 JJ_{40}	17.0	X	342.76529	149.42174	174.81214	9.83953	0.2781005	0.28523657	2.29	1.65	2.92	Mc	7 24.6	18.2
162438 2000 GF_{3}	16.6	X	144.99039	294.71739	21.16349	6.56378	0.2847383	0.30827498	2.17	1.55	2.79	Mc	—	—
162473 2000 LA_{16}	17.3	X	67.36180	182.40105	150.93640	5.69581	0.2968821	0.29670299	2.23	1.57	2.89	Mc	—	—
162551 2000 QS_{226}	15.9	X	327.62267	253.84380	170.61248	23.08664	0.3194830	0.28720787	2.28	1.55	3.00	Mc	—	—
162780 2000 XJ_{38}	15.5	X	266.75457	86.45252	326.46223	21.59225	0.3236321	0.27110275	2.36	1.60	3.13	Mc	7 14.2	19.3
162785 2000 YA_{17}	15.6	X	295.63211	267.53276	112.12270	22.51590	0.2966881	0.27686505	2.33	1.64	3.02	Mc	7 2.9	18.4
162789 2000 YF_{33}	16.0	X	285.27480	247.05008	127.69656	7.00873	0.3031475	0.27027117	2.37	1.65	3.09	Mc	6 10.8	19.2
162793 2000 YY_{43}	16.5	X	276.86536	282.87786	123.62105	2.58996	0.2939631	0.27284698	2.35	1.66	3.05	Mc	7 15.3	19.3
162819 2001 BD_{34}	15.3	X	248.32312	96.94458	324.24595	22.14175	0.3117597	0.26781429	2.38	1.64	3.13	Mc	7 8.5	19.5
162926 2001 OB_{36}	16.9	X	315.02719	289.08451	113.00813	42.66619	0.6179752	0.19524527	2.94	1.12	4.76	Ja	7 6.8	20.4
162991 2001 SY_{69}	16.6	X	168.86673	253.51118	79.69968	6.68943	0.2232323	0.31704153	2.13	1.65	2.61	Mc	1 6.9	19.5
163070 2002 AO_{7}	18.3	X	307.07516	240.61139	278.04786	14.53565	0.6350189	0.19844781	2.91	1.06	4.76	Ja	11 26.8	20.0
163242 2002 FE	15.2	X	253.80069	98.79040	358.84512	21.80012	0.3345300	0.28219590	2.30	1.53	3.07	Mc	8 30.7	18.7
163251 2002 GX_{4}	15.8	X	280.80713	281.98699	169.02324	22.33235	0.3708141	0.28526704	2.29	1.44	3.13	Mc	9 10.7	18.3
163327 2002 JR_{131}	16.3	X	124.07784	106.64676	211.18543	4.55794	0.3724701	0.23231674	2.62	1.64	3.60	Mc	—	—
163799 2003 QR_{69}	15.5	X	141.52037	32.26733	329.96701	6.68680	0.3518818	0.23995637	2.56	1.66	3.47	Mc	2 10.8	19.8
164220 2004 QW_{16}	16.3	X	7.63861	194.75163	191.12202	27.69293	0.2798202	0.35835501	1.96	1.41	2.51	Mc	—	—
164269 2004 WS_{8}	16.6	X	163.92696	344.33368	341.28552	5.64312	0.2766778	0.31156590	2.15	1.56	2.75	Mc	—	—
164273 2004 XO_{16}	15.2	X	281.03418	118.94172	307.85325	24.03617	0.2890136	0.27819662	2.32	1.65	3.00	Mc	8 14.7	18.0
164295 2004 XA_{131}	13.5	X	335.20087	81.38873	145.51205	32.72632	0.2866830	0.12045300	4.06	2.90	5.22	Jc	2 28.7	18.3
164457 2006 DN_{89}	16.6	X	262.40291	145.49410	172.42352	13.40128	0.3158881	0.26101340	2.42	1.66	3.19	Mc	3 7.3	20.7
164466 2006 DS_{156}	16.1	X	312.23036	318.56849	357.00858	7.55400	0.3005969	0.27081688	2.37	1.65	3.08	Mc	4 20.9	19.0
164670 1996 XM_{6}	16.1	X	319.57373	290.29155	86.62177	6.12901	0.3364143	0.27298435	2.35	1.56	3.15	Mc	8 12.8	17.4
164714 1998 FN_{91}	17.0	X	5.76166	134.69052	31.54416	9.76065	0.1520292	0.38080803	1.89	1.60	2.17	Mc	—	—
164725 1998 QF_{98}	15.5	X	70.36574	196.84601	161.39734	11.81158	0.3874339	0.22423091	2.68	1.64	3.72	Mc	—	—
165117 2000 JB_{61}	16.8	X	116.40296	44.17463	238.61383	5.87956	0.2722261	0.29838157	2.22	1.61	2.82	Mc	12 27.7	20.7
165139 2000 NJ_{10}	16.6	X	65.54200	167.04826	166.22429	2.73555	0.3074927	0.29214917	2.25	1.56	2.94	Mc	—	—
165144 2000 QO_{7}	16.3	X	56.60222	123.46286	173.01078	23.29946	0.2775771	0.28710424	2.28	1.64	2.91	Mc	11 28.6	20.1
165213 2000 SJ_{12}	16.6	X	115.45591	289.23508	30.07906	3.14379	0.2551099	0.29826440	2.22	1.65	2.78	Mc	—	—
165222 2000 SA_{45}	16.0	X	114.73371	1.12026	254.58701	11.64783	0.3125848	0.28842986	2.27	1.56	2.98	Mc	11 24.4	20.0
165383 2000 WA_{173}	15.5	X	84.75956	261.70780	99.05537	22.52261	0.2652789	0.28943501	2.26	1.66	2.86	Mc	—	—
165394 2000 XC_{15}	15.1	X	238.58593	97.52376	68.65296	22.19906	0.2959533	0.27648802	2.33	1.64	3.02	Mc	11 14.2	18.4
165464 2001 AY_{19}	16.3	X	254.99006	291.85628	100.73491	6.25170	0.3209090	0.26859822	2.38	1.62	3.14	Mc	6 2.1	20.3
165494 2001 BD_{42}	16.1	X	194.66853	304.20379	166.03702	22.77242	0.3047362	0.26569915	2.40	1.67	3.13	Mc	7 22.9	20.8
165765 2001 QW_{236}	17.6	X	189.97109	131.88361	171.37467	7.58834	0.2545465	0.32043838	2.11	1.58	2.65	Mc	—	—
166044 2002 CE_{14}	16.2	X	78.92276	56.78095	330.20444	25.13627	0.2664441	0.30217779	2.20	1.61	2.79	Mc	—	—
167068 2003 QY_{109}	15.5	X	13.26136	108.89449	310.48011	7.81718	0.3814629	0.22410323	2.68	1.66	3.71	Mc	—	—
167671 2004 FR_{4}	17.5	X	28.40739	108.12617	330.00995	24.42088	0.1479524	0.44631384	1.70	1.44	1.95	Mc	—	—
167701 2004 TM_{13}	16.4	X	113.67427	26.25208	275.52263	7.56283	0.2557523	0.30306051	2.20	1.63	2.76	Mc	—	—
167785 2005 AT_{31}	16.6	X	46.45441	222.60950	116.71177	12.19732	0.2691041	0.28895224	2.27	1.66	2.88	Mc	—	—
168315 1982 RA_{1}	16.5	X	245.09799	93.42165	200.15885	5.46844	0.3319243	0.31976191	2.12	1.41	2.82	Mc	1 18.9	20.4
168381 1997 LY_{4}	16.7	X	317.66773	51.42125	252.71586	8.35769	0.2717819	0.40701399	1.80	1.31	2.29	Mc	3 28.9	18.5
168385 1997 RH_{4}	16.6	X	100.25913	33.29517	12.68025	6.33463	0.2836181	0.30335183	2.19	1.57	2.82	Mc	2 1.9	18.5
168554 1999 WS_{13}	15.1	X	196.25373	51.54176	65.08090	24.09069	0.3284731	0.25655542	2.45	1.65	3.26	Mc	8 7.6	20.1
168710 2000 HE_{41}	16.2	X	199.63094	204.49998	103.58215	9.42004	0.2487856	0.31222409	2.15	1.62	2.69	Mc	1 5.2	19.7
168713 2000 HN_{86}	17.1	X	205.87906	223.17865	77.35628	5.11093	0.2801438	0.31186491	2.15	1.55	2.76	Mc	1 2.5	20.7
168714 2000 JQ_{10}	16.9	X	98.12098	100.83082	223.43752	4.71460	0.3030701	0.29991764	2.21	1.54	2.88	Mc	—	—
168728 2000 OZ_{33}	16.8	X	298.00540	108.78991	259.76578	4.46616	0.3086814	0.27858517	2.32	1.61	3.04	Mc	6 17.0	19.2
168730 2000 OX_{51}	17.0	X	54.24471	98.79494	219.07628	6.81867	0.3031221	0.28912018	2.27	1.58	2.95	Mc	12 22.8	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
168828 2000 SY_{320}	15.9	X	302.68192	136.13012	267.86528	23.07715	0.3117980	0.27400765	2.35	1.62	3.08	Mc	8 6.2	18.6
168870 2000 WN_{6}	15.5	X	316.04365	33.83633	82.48335	27.00423	0.3372570	0.28102156	2.31	1.53	3.09	Mc	—	—
168881 2000 WN_{48}	16.8	X	256.82326	319.52432	118.03271	4.26656	0.2988710	0.27232122	2.36	1.65	3.06	Mc	8 3.8	20.4
168889 2000 WM_{95}	16.3	X	62.83126	88.90598	275.27446	3.69038	0.2771697	0.28982110	2.26	1.63	2.89	Mc	—	—
168956 2001 AC_{47}	15.9	X	200.66621	95.78210	45.65251	22.26403	0.3108212	0.26866036	2.38	1.64	3.12	Mc	9 18.2	20.5
168981 2001 CT_{3}	15.6	X	16.61578	261.70728	111.28269	7.64880	0.3061417	0.27807833	2.32	1.61	3.04	Mc	—	—
169516 2002 EQ	16.5	X	29.41714	83.69494	172.91918	3.44799	0.3295166	0.26644198	2.39	1.60	3.18	Mc	8 28.1	18.3
169660 2002 JG_{66}	16.5	X	303.59732	162.14562	77.39300	6.20572	0.2590031	0.30053701	2.21	1.64	2.78	Mc	1 5.2	19.9
170013 2002 UO_{3}	17.7	X	217.89283	329.38576	184.63240	24.60560	0.7977615	0.19245295	2.97	0.60	5.34	Jc	9 4.4	24.5
170172 2003 HV_{7}	16.6	X	185.17387	287.29281	29.85476	1.27639	0.2515238	0.30938955	2.17	1.62	2.71	Mc	1 5.3	20.0
170176 2003 MU_{1}	16.7	X	61.58601	213.50954	70.23766	3.41264	0.3025273	0.28245278	2.30	1.60	3.00	Mc	11 16.7	20.0
170178 2003 MR_{2}	16.7	X	10.32580	350.03403	311.00841	2.87034	0.2905733	0.27548412	2.34	1.66	3.02	Mc	9 18.1	18.0
170405 2003 UK_{4}	16.0	X	222.95226	247.57522	240.50139	20.44153	0.3422078	0.26719547	2.39	1.57	3.20	Mc	8 24.8	20.6
170648 2003 YA_{114}	17.0	X	117.79838	52.33623	343.83454	6.06844	0.3656658	0.23963590	2.57	1.63	3.51	Mc	3 4.4	20.9
170880 2004 PH_{85}	16.8	X	66.62959	193.47058	148.98575	4.73966	0.2623998	0.30188845	2.20	1.62	2.78	Mc	—	—
170908 2004 XK_{61}	16.5	X	110.61591	30.52605	313.93163	5.64572	0.3105709	0.30361453	2.19	1.51	2.87	Mc	—	—
171465 Evamaria	14.7	X	303.15283	212.92258	159.97877	10.94468	0.2200894	0.12768698	3.91	3.05	4.77	Ja	7 15.2	19.8
171522 1999 CY_{5}	16.6	X	112.04925	98.98762	121.34208	20.40658	0.1492803	0.41862714	1.77	1.51	2.03	Mc	10 25.5	19.4
171665 2000 KK_{23}	17.1	X	160.49874	230.37989	75.47356	4.60212	0.2651984	0.30565271	2.18	1.60	2.76	Mc	—	—
171671 2000 PF_{32}	17.1	X	72.10665	231.28832	90.28865	7.00862	0.3106009	0.29158714	2.25	1.55	2.95	Mc	—	—
171673 2000 QB_{33}	16.8	X	199.63549	216.26057	73.06056	6.50973	0.2392888	0.30560316	2.18	1.66	2.71	Mc	—	—
171730 2000 WX_{50}	17.2	X	282.09045	137.05626	282.66055	12.88334	0.1939165	0.41700725	1.77	1.43	2.12	Mc	9 4.4	18.4
171784 2001 BV_{67}	16.6	X	249.76640	186.84003	331.29023	7.35925	0.3417851	0.27622825	2.34	1.54	3.13	Mc	11 2.2	19.8
172425 Taliajacobi	15.4	X	301.16912	79.11612	356.45513	21.35488	0.3566343	0.27107972	2.36	1.52	3.21	Mc	9 25.5	16.8
172451 2003 QV_{79}	16.7	X	225.87412	212.69456	36.99818	9.12843	0.2739004	0.30270372	2.20	1.60	2.80	Mc	—	—
173154 1996 ME	16.6	X	173.05782	208.74689	121.69695	7.68212	0.3051860	0.29955668	2.21	1.54	2.89	Mc	1 16.8	20.0
173245 1999 LY_{7}	16.7	X	147.89992	168.93581	105.24673	6.15164	0.2734401	0.28834523	2.27	1.65	2.89	Mc	—	—
173274 1999 SS_{7}	16.0	X	169.92675	253.45971	41.45547	7.05317	0.3149952	0.28924826	2.26	1.55	2.98	Mc	—	—
173309 1999 VK_{22}	16.1	X	264.65385	133.23121	242.98503	7.67890	0.3206176	0.26008223	2.43	1.65	3.21	Mc	5 19.9	19.9
173444 2000 LG_{3}	15.4	X	126.81357	25.56218	297.47030	25.29687	0.2725292	0.29970221	2.21	1.61	2.81	Mc	—	—
173457 2000 QG_{45}	17.3	X	218.04758	186.35175	151.33356	1.84601	0.2347329	0.31252143	2.15	1.65	2.66	Mc	2 24.7	20.9
173458 2000 QV_{82}	16.5	X	102.42096	205.44084	174.74317	6.99085	0.2485203	0.29960523	2.21	1.66	2.76	Mc	—	—
173474 2000 RH_{104}	15.9	X	145.47280	110.62717	255.34796	7.11952	0.2498808	0.30342792	2.19	1.65	2.74	Mc	1 28.1	18.9
173475 2000 SA_{1}	15.6	X	5.10028	67.75877	329.32586	23.22723	0.2964822	0.28556165	2.28	1.61	2.96	Mc	—	—
173530 2000 WF_{13}	16.9	X	36.75859	278.38044	61.91032	7.25140	0.2816145	0.28430731	2.29	1.65	2.94	Mc	12 30.9	20.0
173549 2000 XF_{47}	15.2	X	329.68881	78.24133	4.83368	22.76961	0.2869583	0.28253651	2.30	1.64	2.96	Mc	—	—
174287 2002 SX_{37}	15.7	X	252.86829	221.90844	78.99289	9.78775	0.3618456	0.24001883	2.56	1.64	3.49	Mc	2 12.2	20.6
174599 2003 QM_{70}	15.4	X	334.37670	63.53377	9.78818	22.67435	0.3234219	0.27512051	2.34	1.58	3.10	Mc	—	—
174756 2003 VN	16.3	X	109.85098	234.69467	97.91851	8.29722	0.2805947	0.28787078	2.27	1.63	2.91	Mc	—	—
174784 2003 WN_{98}	15.7	X	220.43088	237.07550	273.78940	20.66492	0.3303908	0.26932382	2.37	1.59	3.16	Mc	9 18.9	20.3
175168 2005 EQ_{118}	16.5	X	291.57439	272.29507	277.77851	4.27174	0.2814802	0.29240155	2.25	1.62	2.88	Mc	—	—
175519 2006 SR_{54}	17.1	X	293.66940	223.12990	56.26797	5.11021	0.2336248	0.30953175	2.16	1.66	2.67	Mc	2 18.9	20.2
175622 2006 XX_{4}	14.8	X	134.36517	272.80447	116.44234	29.13821	0.3694353	0.23183449	2.62	1.65	3.59	Mc	3 19.2	19.8
175717 1997 CX_{5}	18.1	X	68.69117	162.41841	312.78734	19.28071	0.1207547	0.45047201	1.69	1.48	1.89	Mc	—	—
175764 1998 US_{3}	16.4	X	212.36712	199.85323	175.05972	6.46341	0.3489824	0.24374070	2.54	1.65	3.42	Mc	4 12.0	21.2
175786 1999 PT_{3}	16.4	X	320.94960	340.25206	310.73760	9.06747	0.3647700	0.30931116	2.17	1.38	2.96	Mc	3 12.3	19.2
175816 1999 RZ_{230}	16.9	X	34.42337	285.90529	66.94681	6.62292	0.3039911	0.27537935	2.34	1.63	3.05	Mc	—	—
175943 2000 GE_{1}	15.9	X	138.04130	129.27222	156.77641	24.16519	0.3360010	0.34799093	2.00	1.33	2.67	Mc	—	—
176069 2000 WG_{68}	16.8	X	275.19188	62.71090	248.09061	5.12119	0.2367317	0.31200309	2.15	1.64	2.66	Mc	3 7.9	20.0
176102 2001 BB_{61}	15.9	X	334.52329	260.16247	153.19460	22.24708	0.2868953	0.27953384	2.32	1.65	2.98	Mc	12 29.8	17.9
176123 2001 DG_{87}	16.6	X	274.29789	121.48657	135.65181	4.16833	0.3054633	0.28692005	2.28	1.58	2.97	Mc	1 1.1	20.6
176425 2001 VQ_{67}	17.7	X	288.93636	60.45752	38.13724	8.19789	0.1993469	0.34576683	2.01	1.61	2.41	Mc	11 30.0	18.6
176611 2002 FC_{29}	16.7	X	359.58981	178.77890	114.89883	6.47701	0.2565252	0.31779268	2.13	1.58	2.67	Mc	7 30.8	16.9
176612 2002 FO_{30}	17.2	X	324.45727	153.99130	118.79882	8.57709	0.3271651	0.30748694	2.17	1.46	2.89	Mc	3 4.7	19.8
176616 2002 GS_{65}	15.7	X	62.10244	288.54509	45.17014	6.32103	0.3052426	0.27963255	2.32	1.61	3.02	Mc	—	—
176871 2002 UP_{3}	15.2	X	162.88358	276.23519	71.16673	11.36586	0.3712805	0.23406574	2.61	1.64	3.58	Mc	2 13.9	20.1
177266 2003 WK_{88}	16.6	X	289.35131	17.88907	285.69196	5.18541	0.2361293	0.31102845	2.16	1.65	2.67	Mc	3 12.5	19.7
177279 2003 WD_{142}	16.5	X	106.47505	343.08101	73.27990	6.49355	0.3589087	0.23881279	2.57	1.65	3.50	Mc	3 21.2	20.3
177287 2003 WF_{166}	16.6	X	179.64678	19.41385	332.40566	4.95322	0.2849449	0.29993641	2.21	1.58	2.84	Mc	2 15.7	20.1
177953 2006 MQ_{6}	16.6	X	9.78100	164.93869	177.62862	5.40120	0.3254868	0.26881700	2.38	1.60	3.15	Mc	12 1.4	18.8
178287 1981 UW_{27}	16.3	X	60.01443	4.31926	17.37096	5.44577	0.3024017	0.27698490	2.33	1.63	3.04	Mc	—	—
178293 1990 SN	17.1	X	171.11791	10.84607	0.51194	6.21494	0.3160626	0.30368001	2.19	1.50	2.88	Mc	3 7.2	20.7
178516 1999 TT_{200}	17.0	X	293.36758	22.05139	309.59871	4.50205	0.2351807	0.30784650	2.17	1.66	2.68	Mc	4 25.9	19.9
178758 2000 VL_{45}	17.1	X	141.94448	30.26939	310.42216	5.05518	0.2693425	0.29903072	2.21	1.62	2.81	Mc	—	—
178783 2001 BY_{2}	15.8	X	62.12760	284.43767	131.21077	23.83192	0.2781098	0.28908798	2.27	1.64	2.90	Mc	—	—
178805 2001 FS_{41}	16.8	X	278.33638	102.14313	150.55899	2.28913	0.2876736	0.28593527	2.28	1.63	2.94	Mc	—	—
178833 2001 HN_{12}	15.7	X	39.77114	264.13904	49.38034	7.93034	0.3404298	0.25715086	2.45	1.62	3.28	Mc	12 2.2	19.0
178856 2001 KY_{19}	16.0	X	178.28990	158.97739	116.55033	7.18579	0.3074892	0.27120560	2.36	1.64	3.09	Mc	—	—
179586 2002 KD_{15}	17.2	X	305.18623	323.74848	335.17684	5.76686	0.2464955	0.30398196	2.19	1.65	2.73	Mc	3 24.7	20.1
179587 2002 LS_{2}	16.9	X	330.46113	52.17961	233.32184	7.62451	0.3114645	0.30635202	2.18	1.50	2.86	Mc	3 28.9	19.0
179596 2002 NS_{17}	16.8	X	147.48976	18.70344	305.68791	5.46812	0.2781661	0.28291120	2.30	1.66	2.94	Mc	—	—
179630 2002 PX_{70}	16.2	X	169.97991	125.20209	222.84611	4.62401	0.2908372	0.28685236	2.28	1.61	2.94	Mc	2 3.6	20.1
179775 2002 SK_{41}	16.7	X	275.80601	278.13499	25.75955	1.66671	0.2936374	0.29685308	2.23	1.57	2.88	Mc	2 27.9	20.2
179778 2002 SY_{47}	16.4	X	227.66863	130.60890	187.90124	8.37433	0.2709398	0.29181168	2.25	1.64	2.86	Mc	2 8.6	20.4
179879 2002 UB	17.5	X	318.80794	30.84174	216.64270	22.64531	0.1170687	0.44819223	1.69	1.49	1.89	Mc	1 13.6	19.9
180214 2003 UB_{9}	16.0	X	78.56329	268.53737	113.36206	23.25609	0.2667103	0.28869293	2.27	1.66	2.87	Mc	—	—
180309 2003 XR	17.0	X	187.27552	45.46600	299.37267	6.52522	0.2492207	0.30014713	2.21	1.66	2.76	Mc	2 9.8	20.6
180375 2003 YH_{129}	16.6	X	94.35915	33.35063	2.55958	6.14823	0.2922021	0.28835833	2.27	1.61	2.93	Mc	1 11.0	18.3
181698 5684 T_{-3}	17.1	X	260.34948	218.58396	107.60218	5.23408	0.2375431	0.30724334	2.18	1.66	2.69	Mc	3 19.9	20.5
181704 1989 NA	15.9	X	153.57631	202.11069	96.91313	14.16248	0.4537682	0.22940534	2.64	1.44	3.84	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
181771 1997 GG_3	16.2	X	319.06409	303.24251	18.77503	3.48820	0.3629520	0.33040890	2.07	1.32	2.82	Mc	4 25.4	18.4
181797 1998 MR_2	15.8	X	117.04190	240.74258	106.44220	27.94509	0.4616263	0.23297680	2.62	1.41	3.82	Mc	1 15.7	19.8
181826 1998 SP_{49}	16.8	X	195.89495	123.80555	188.51670	4.98102	0.3372014	0.27934550	2.32	1.54	3.10	Mc	1 14.7	21.2
181882 1999 RF_{14}	14.5	X	35.15683	91.37705	344.99575	20.82805	0.2819603	0.28317278	2.30	1.65	2.94	Mc	—	—
181898 1999 RS_{168}	16.8	X	139.37556	184.38658	170.07715	6.42175	0.2664956	0.28892809	2.27	1.66	2.87	Mc	1 12.6	19.9
181958 1999 UL_7	15.2	X	293.48735	92.83777	324.44050	20.40921	0.3414343	0.26340669	2.41	1.59	3.23	Mc	8 16.1	17.4
182002 1999 XV_7	16.4	X	137.66699	359.54708	15.18871	6.40514	0.2735427	0.28695102	2.28	1.65	2.90	Mc	2 10.5	19.6
182127 2000 RJ_{70}	16.1	X	313.89767	144.23367	130.82972	5.11694	0.4208708	0.22528400	2.67	1.55	3.80	Mc	2 20.7	20.1
182231 2001 CZ_{20}	17.3	X	247.19423	319.82333	195.15636	4.50218	0.3284372	0.27510963	2.34	1.57	3.11	Mc	10 31.8	20.5
182260 2001 GA_3	16.4	X	249.12402	121.88580	141.90997	22.71170	0.2819619	0.28284209	2.30	1.65	2.95	Mc	—	—
182263 2001 HQ_8	16.4	X	247.06314	123.37691	158.12687	22.74816	0.3004199	0.28133530	2.31	1.61	3.00	Mc	1 11.7	20.9
182274 2001 KY_1	14.5	X	289.34070	43.91852	294.68334	8.50132	0.4989758	0.19359230	2.96	1.48	4.44	Mc	4 5.9	19.8
182328 2001 PS_{13}	16.9	X	81.57239	196.10742	130.41232	3.48788	0.3795094	0.26027489	2.43	1.51	3.35	Mc	—	—
182974 2002 NT_{23}	16.1	X	88.98582	228.87566	133.58543	8.80721	0.2914246	0.27719351	2.33	1.65	3.01	Mc	—	—
182977 2002 NU_{38}	17.3	X	348.23000	101.83003	210.37977	5.65768	0.3352763	0.30887412	2.17	1.44	2.89	Mc	7 16.3	17.2
183020 2002 PF_{97}	16.5	X	214.72377	188.54233	129.74070	8.96016	0.2774486	0.29125370	2.25	1.63	2.88	Mc	2 1.4	20.5
183023 2002 PG_{113}	17.3	X	334.93392	291.17480	2.85454	6.86525	0.2898912	0.30723533	2.18	1.54	2.81	Mc	4 25.6	19.1
183069 2002 RR_{13}	17.2	X	217.42292	243.44891	81.01075	0.35937	0.2865619	0.29131519	2.25	1.61	2.90	Mc	2 10.7	21.2
183182 Weinheim	16.4	X	320.54254	100.65482	312.77888	6.90118	0.3189807	0.25996300	2.43	1.66	3.21	Mc	10 21.6	17.6
183220 2002 TJ_{39}	16.3	X	212.00833	105.05043	223.61283	6.66925	0.2794332	0.28797875	2.27	1.64	2.91	Mc	2 9.5	20.4
183230 2002 TC_{58}	14.6	X	67.43869	204.87504	129.44486	18.72243	0.4256388	0.22044263	2.71	1.56	3.87	Mc	—	—
183581 2003 SY_{84}	15.2	X	153.39547	99.53030	195.92841	26.68544	0.4124445	0.23752409	2.58	1.52	3.65	Mc	—	—
183592 2003 SJ_{313}	17.5	X	222.74121	171.76432	167.00821	3.73162	0.2457688	0.30830371	2.17	1.64	2.70	Mc	3 1.9	21.1
184061 2004 FM_{148}	16.6	X	237.34327	69.70892	48.33498	19.97305	0.3341229	0.25937624	2.44	1.62	3.25	Mc	9 14.2	21.0
184341 2005 GX_{176}	17.5	X	291.28145	284.10281	11.15072	7.33912	0.2556082	0.30265793	2.20	1.64	2.76	Mc	3 7.2	20.6
184346 2005 HF_6	15.9	X	192.05372	205.07658	166.12396	8.01656	0.3870120	0.23122344	2.63	1.61	3.65	Mc	3 27.7	21.0
184423 2005 NY_6	16.6	X	123.16440	320.93076	8.83348	4.63604	0.3215212	0.27039930	2.37	1.61	3.13	Mc	—	—
184449 2005 NL_{55}	17.0	X	204.96063	285.42939	27.35586	5.09561	0.2863491	0.28426262	2.29	1.63	2.95	Mc	1 21.3	21.1
184830 2005 UQ_6	16.3	X	165.06169	273.75030	55.19035	5.40030	0.3351539	0.27230146	2.36	1.57	3.15	Mc	1 15.6	20.4
185290 2006 UB_{219}	13.8	X	139.23488	42.54775	84.27855	7.13046	0.1329477	0.11085993	4.29	3.72	4.86	Ja	6 25.6	20.1
185493 2007 PO_{42}	16.6	X	60.35382	155.99001	215.99657	2.59220	0.2671605	0.29771488	2.22	1.63	2.81	Mc	—	—
185643 2040 $P\text{–}L$	16.8	X	262.91005	343.29093	0.82014	4.81275	0.2440702	0.30324492	2.19	1.66	2.73	Mc	4 10.6	20.1
185726 1998 SR_{140}	16.9	X	207.11568	110.84826	206.12248	7.45111	0.3345575	0.28094558	2.31	1.54	3.08	Mc	1 25.7	21.4
185731 1998 VO_5	16.1	X	100.27360	292.72815	49.69083	8.61532	0.3247895	0.26855569	2.38	1.61	3.15	Mc	—	—
185734 1998 WQ_{32}	16.3	X	129.63664	276.89345	57.69939	12.17526	0.2984048	0.27115836	2.36	1.66	3.07	Mc	—	—
185746 1999 LO_1	17.2	X	240.09181	305.94014	68.49691	3.97069	0.3310285	0.30981332	2.16	1.45	2.88	Mc	4 26.6	20.9
185854 2000 EU_{106}	15.4	X	231.24809	100.40876	198.36360	21.32652	0.3735405	0.27358079	2.35	1.47	3.23	Mc	1 18.1	20.4
185978 2001 MO_9	16.1	X	197.89092	110.65089	186.63186	5.37034	0.3033496	0.27224598	2.36	1.64	3.07	Mc	—	—
186024 2001 QG_{207}	14.5	X	65.02556	233.70238	133.62573	3.23832	0.2514579	0.11134057	4.28	3.20	5.36	Jc	—	—
186393 2002 NR_{39}	17.2	X	184.19378	348.33120	345.44691	0.59325	0.3221559	0.28671244	2.28	1.54	3.01	Mc	1 31.6	21.2
186418 2002 RA	16.5	X	183.44351	44.54429	318.50200	4.53084	0.2881303	0.29095511	2.26	1.61	2.91	Mc	3 3.9	20.4
186448 2002 SK_{40}	14.4	X	121.88764	229.04234	137.20556	4.21813	0.2357057	0.12240340	4.02	3.07	4.96	Jc	2 2.2	20.5
186471 2002 TN_{49}	16.4	X	297.21460	104.14652	209.90818	6.07970	0.2617980	0.29883538	2.22	1.64	2.80	Mc	4 4.5	19.4
186475 2002 TO_{65}	16.9	X	344.41661	357.46264	293.69213	8.09074	0.2954357	0.30466012	2.19	1.54	2.83	Mc	5 14.7	18.3
186737 2004 CP_{26}	16.2	X	274.07594	242.38920	141.03978	8.01305	0.2833760	0.31109208	2.16	1.55	2.77	Mc	6 11.7	19.2
187041 2005 JS_{127}	17.2	X	38.86503	113.50307	186.40961	4.30773	0.2457052	0.31873112	2.12	1.60	2.64	Mc	11 11.3	19.6
187043 2005 KE_{12}	16.9	X	312.11588	214.68964	94.31060	6.95059	0.2761974	0.30072744	2.21	1.60	2.82	Mc	4 18.7	19.4
187044 2005 LF_{15}	17.8	X	250.71031	127.64479	189.93743	7.10461	0.3432351	0.29102597	2.26	1.48	3.03	Mc	2 21.8	22.0
187065 2005 MU_{40}	16.9	X	198.43673	138.07635	223.55125	3.70827	0.3089508	0.28692669	2.28	1.57	2.98	Mc	3 13.2	21.1
187737 2153 $P\text{–}L$	17.7	X	302.90003	39.90698	296.07216	1.27795	0.2608754	0.30485039	2.19	1.62	2.76	Mc	5 13.2	20.2
187746 1976 DC	16.3	X	308.33231	223.92111	317.40574	22.46656	0.3442007	0.27986110	2.31	1.52	3.11	Mc	—	—
187776 1998 SH_{55}	16.7	X	228.71204	331.28583	353.71096	5.04693	0.2978308	0.28488713	2.29	1.61	2.97	Mc	2 20.4	20.8
187799 1999 FK_{16}	14.2	X	208.59989	4.42297	195.49256	17.38613	0.2833836	0.11140725	4.28	3.07	5.49	Jc	11 9.4	21.2
187828 1999 VX_{21}	17.1	X	280.19534	161.59434	208.92813	3.56396	0.2478224	0.30544575	2.18	1.64	2.72	Mc	6 5.1	19.7
187852 2000 AA_{170}	17.2	X	180.74200	253.82063	138.27941	7.87141	0.2877111	0.29436324	2.24	1.59	2.88	Mc	4 10.3	21.2
188228 2002 TH_{267}	16.5	X	353.79015	86.33483	234.02633	6.83545	0.2885709	0.30866646	2.17	1.54	2.79	Mc	9 4.0	17.1
188236 2002 VY	16.4	X	255.17686	250.81025	73.37751	8.89813	0.2610315	0.29389345	2.24	1.66	2.83	Mc	3 15.1	20.2
188272 2003 AO_{42}	15.9	X	115.23233	237.28695	280.82265	5.29376	0.3868321	0.23179247	2.62	1.61	3.64	Mc	7 30.9	20.7
188349 2003 TS_9	16.3	X	223.59917	155.47827	240.30167	68.98324	0.2706167	0.36789209	1.93	1.41	2.45	Mc	5 15.6	19.7
188717 2005 TU_{171}	17.1	X	229.85035	1.32194	318.66725	7.41709	0.3108462	0.28399286	2.29	1.58	3.00	Mc	2 13.8	21.4
189012 1998 FO_{98}	17.1	X	343.68225	298.55036	284.54248	5.09883	0.3126705	0.29692655	2.23	1.53	2.92	Mc	1 21.4	19.5
189013 1998 QD_3	17.0	X	337.61634	307.80187	335.10751	8.78629	0.2744739	0.29588167	2.23	1.62	2.84	Mc	4 15.1	19.1
189015 1998 QH_{83}	17.2	X	274.07608	117.05869	235.29093	5.86051	0.2650826	0.29286526	2.25	1.65	2.84	Mc	5 1.4	20.5
189054 2000 SW_{278}	15.2	X	56.11898	269.47298	44.78954	17.08282	0.3669713	0.23873170	2.57	1.63	3.52	Mc	12 17.5	19.5
189080 2001 MO_6	16.6	X	189.36163	114.57732	249.32374	5.55087	0.2944024	0.27582343	2.34	1.65	3.03	Mc	3 8.9	20.8
189083 2001 OV_{46}	16.3	X	201.32420	229.90399	153.47504	6.39842	0.2836460	0.28122697	2.31	1.65	2.96	Mc	4 14.1	20.5
189118 2001 VD_{47}	15.2	X	351.90213	94.92705	270.02938	9.79644	0.3513571	0.24357198	2.54	1.65	3.43	Mc	11 18.5	16.7
189165 2002 TQ_{96}	16.9	X	61.92247	95.51193	200.34063	6.51615	0.2681799	0.31510199	2.14	1.57	2.71	Mc	12 3.5	20.0
189166 2002 TW_{226}	17.1	X	32.29695	139.88324	170.93349	5.63886	0.2632926	0.31254092	2.15	1.58	2.72	Mc	11 20.1	19.5
189170 2002 VH_{66}	17.6	X	48.59038	80.68025	260.29493	3.86824	0.3025936	0.31812869	2.13	1.48	2.77	Mc	—	—
189283 2005 TX_{14}	15.9	X	156.68008	42.76336	276.20007	12.68446	0.3123932	0.27074388	2.37	1.63	3.11	Mc	—	—
189430 1998 HH_{145}	17.0	X	3.61457	111.13948	164.76986	5.13614	0.2448863	0.30234284	2.20	1.66	2.74	Mc	7 2.4	17.8
189694 2001 SF_{276}	16.4	X	139.60290	99.42994	309.51275	20.97455	0.3071155	0.27035740	2.37	1.64	3.10	Mc	3 18.1	20.6
189829 2002 VQ_6	18.0	X	44.54495	61.89381	237.74929	5.33221	0.1381306	0.46794823	1.64	1.42	1.87	Mc	11 28.8	19.1
190059 2004 RW_{306}	15.7	X	31.44943	203.38594	147.78235	6.90875	0.3689015	0.23596989	2.59	1.64	3.55	Mc	—	—
190274 3117 $P\text{–}L$	17.6	X	357.70546	49.04406	280.43053	4.89073	0.2529050	0.30703712	2.18	1.63	2.73	Mc	10 3.0	18.6
190276 4548 $P\text{–}L$	17.0	X	19.82971	301.00261	4.06440	7.51833	0.3403488	0.30774501	2.17	1.43	2.91	Mc	11 1.4	19.0
190327 1998 QE_{85}	16.5	X	321.76081	170.09176	216.09127	7.11225	0.2497902	0.30061755	2.21	1.66	2.76	Mc	9 24.4	17.3
190339 1998 SC_{117}	17.0	X	286.63701	351.09771	339.08308	5.55897	0.2905690	0.29141243	2.25	1.60	2.91	Mc	4 10.2	20.3
190346 1998 UG_{33}	16.4	X	268.58268	302.63552	47.28668	7.20169	0.2861078	0.29100490	2.26	1.61	2.90	Mc	4 22.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
190451 2000 AX_{146}	16.4	X	316.80347	317.83858	125.42177	24.43352	0.2294802	0.31239788	2.15	1.66	2.64	Mc	—	—
190543 2000 RM_{80}	17.3	X	46.94000	37.60133	313.44684	6.18326	0.3613927	0.24307103	2.54	1.62	3.46	Mc	—	—
190677 2001 BQ_{61}	15.0	X	311.91759	282.82787	178.82306	28.05709	0.3699786	0.23175500	2.62	1.65	3.60	Mc	12 7.7	17.3
190716 2001 KH_{32}	16.7	X	344.63680	218.81760	122.32831	3.42943	0.2706363	0.30145446	2.20	1.61	2.80	Mc	9 18.7	17.1
190736 2001 PM_{43}	16.0	X	201.21427	117.90021	312.21946	23.89984	0.2822401	0.28628027	2.28	1.64	2.92	Mc	6 10.2	20.5
190866 2001 TX_{45}	16.4	X	266.67418	101.79282	202.13288	5.69426	0.2976785	0.27839118	2.32	1.63	3.01	Mc	2 19.9	20.4
191035 2002 CR_{9}	16.0	X	126.74881	248.29845	206.39451	21.49361	0.3059104	0.26759849	2.38	1.66	3.11	Mc	5 16.9	20.0
191589 2004 FQ_{5}	15.8	X	349.02706	181.54695	151.46766	21.73847	0.2731426	0.30558320	2.18	1.59	2.78	Mc	9 22.4	16.5
191600 2004 FW_{146}	16.4	X	266.61481	108.11958	184.74022	8.49555	0.3128482	0.27777123	2.33	1.60	3.05	Mc	2 5.7	20.5
191759 2004 TA_{12}	15.9	X	93.31855	124.81775	182.37584	18.22490	0.3858652	0.24324871	2.54	1.56	3.52	Mc	—	—
191935 2005 UY_{2}	16.7	X	22.22334	123.59223	171.62939	7.86730	0.3237578	0.30526947	2.18	1.48	2.89	Mc	10 22.7	18.5
191964 2005 VF_{7}	16.4	X	230.59588	94.63535	317.27577	22.34216	0.3012749	0.28999495	2.26	1.58	2.94	Mc	6 7.2	20.7
192486 1998 HP_{7}	15.6	X	142.55527	75.88822	67.64693	21.43344	0.3328325	0.26661644	2.39	1.60	3.19	Mc	8 3.8	20.3
192497 1998 HJ_{89}	17.4	X	167.66161	26.72204	205.18389	6.06260	0.2450762	0.31862233	2.12	1.60	2.64	Mc	12 8.3	20.8
192507 1998 MQ_{37}	16.4	X	290.04772	43.66511	297.63805	5.92088	0.2904533	0.29481603	2.24	1.59	2.89	Mc	4 28.2	19.5
192547 1998 TW_{6}	17.8	X	13.06927	259.36018	20.39500	5.29677	0.3387180	0.29702620	2.22	1.47	2.98	Mc	9 5.5	18.5
192686 Aljuroma	15.4	X	6.92706	76.73795	255.13871	11.28003	0.3809286	0.22587588	2.67	1.65	3.69	Mc	11 5.0	17.6
192952 2000 BZ_{18}	16.5	X	138.52690	211.62247	356.69327	5.45943	0.3014173	0.29951907	2.21	1.55	2.88	Mc	10 14.4	20.4
193235 2000 SE_{2}	16.0	X	145.25224	29.84786	28.89554	9.53092	0.3586724	0.26171896	2.42	1.55	3.29	Mc	4 19.9	20.2
193331 2000 TN_{29}	16.1	X	62.29101	121.32836	233.01110	25.15405	0.3645938	0.24332302	2.54	1.61	3.47	Mc	—	—
193749 2001 KG	16.4	X	335.85564	260.31437	55.48426	7.82485	0.3086926	0.29728140	2.22	1.54	2.91	Mc	6 6.6	17.3
193764 2001 LG_{13}	17.1	X	353.92853	193.91535	121.30679	6.30399	0.3028093	0.29826870	2.22	1.55	2.89	Mc	8 31.5	17.3
193822 2001 QD_{20}	17.0	X	300.46211	194.57939	141.36846	3.98829	0.2749379	0.28930584	2.26	1.64	2.89	Mc	5 10.6	19.7
193828 2001 QC_{35}	17.3	X	266.39479	32.95291	315.45821	4.29289	0.2889024	0.28716919	2.28	1.62	2.93	Mc	4 15.4	21.1
193846 2001 QZ_{103}	16.2	X	310.15295	141.20752	249.09427	7.41259	0.3412930	0.29629596	2.23	1.47	2.99	Mc	8 4.9	17.7
193948 2001 RQ_{47}	16.1	X	335.60178	246.13654	10.62279	22.68515	0.2912506	0.28580279	2.28	1.62	2.95	Mc	3 13.1	18.6
194175 2001 TB_{51}	17.2	X	294.60844	130.68887	196.99915	4.45466	0.2773121	0.28677304	2.28	1.65	2.91	Mc	4 20.3	20.1
194212 2001 TH_{114}	17.1	X	249.65992	38.13853	334.23049	3.77270	0.2929474	0.28290738	2.30	1.62	2.97	Mc	5 2.4	21.0
194263 2001 UL	16.3	X	227.19015	249.05054	190.10418	21.13394	0.3000873	0.28331950	2.30	1.61	2.98	Mc	7 7.2	20.7
194264 2001 UY	16.3	X	155.00703	245.65754	213.69626	23.85811	0.2913600	0.27876692	2.32	1.64	3.00	Mc	6 10.7	20.7
194459 2001 WE_{2}	16.6	X	78.30023	158.25729	313.76008	4.11022	0.3730599	0.26373487	2.41	1.51	3.31	Mc	4 23.2	19.3
194513 2001 XR_{2}	15.1	X	272.12941	69.29530	304.96502	20.88866	0.3142146	0.28356105	2.29	1.57	3.02	Mc	5 20.7	19.1
194515 2001 XV_{6}	15.5	X	66.24283	116.88630	70.88035	22.75439	0.3311988	0.26965934	2.37	1.59	3.16	Mc	7 20.2	18.8
195009 2002 CK_{13}	15.8	X	70.20937	309.93575	174.22503	23.47193	0.3335835	0.26114234	2.42	1.62	3.23	Mc	4 26.9	18.6
195208 2002 DZ_{3}	15.1	X	218.76357	345.22237	87.93457	25.81652	0.3022434	0.27478119	2.34	1.63	3.05	Mc	6 24.8	19.3
195807 2002 QF_{17}	18.6	X	118.82678	308.84327	57.63176	4.82520	0.3375676	0.33213559	2.07	1.37	2.76	Mc	1 4.7	20.3
196174 2002 WQ_{11}	16.2	X	33.95853	283.31719	64.97495	25.28797	0.2978859	0.31301539	2.15	1.51	2.79	Mc	—	—
196256 2003 EH_{1}	16.2	X	117.12501	171.33816	282.98833	70.83192	0.6185411	0.17854924	3.12	1.19	5.06	Jc	6 24.9	22.9
197564 2004 GG_{2}	16.4	X	224.60557	78.34024	247.59695	20.98818	0.3184319	0.28087525	2.31	1.57	3.04	Mc	2 8.8	21.2
197594 2004 HD_{49}	17.5	X	304.16748	274.48249	45.97899	3.52129	0.2653226	0.29095603	2.26	1.66	2.85	Mc	4 23.6	20.2
197595 2004 HH_{60}	17.4	X	341.73583	42.82499	240.66085	3.84392	0.2673149	0.28956076	2.26	1.66	2.87	Mc	5 3.2	18.9
197615 2004 JQ_{26}	17.3	X	353.94944	230.86706	51.42579	7.52780	0.2655714	0.29087142	2.26	1.66	2.86	Mc	6 8.2	18.1
197710 2004 PU_{2}	15.8	X	202.59941	278.81238	39.68996	22.03081	0.3463420	0.26417011	2.41	1.57	3.24	Mc	2 6.1	20.8
197964 2004 RF_{103}	16.6	X	4.61554	348.40672	286.56898	6.97081	0.2961036	0.28619451	2.28	1.61	2.96	Mc	7 7.4	16.7
197970 2004 RZ_{109}	16.3	X	304.57527	77.79259	350.59903	27.24757	0.3889397	0.22723171	2.66	1.63	3.69	Mc	9 11.2	18.7
197994 2004 RG_{165}	16.3	X	138.04398	243.71397	200.50463	21.96413	0.3256336	0.26726879	2.39	1.61	3.16	Mc	5 14.9	20.6
198558 2004 XE_{148}	15.5	X	30.20761	252.97683	101.05914	6.78560	0.3917525	0.23233580	2.62	1.59	3.65	Mc	—	—
198888 2005 TY_{77}	16.9	X	290.73433	335.41152	16.58221	6.03601	0.2830710	0.29673273	2.23	1.60	2.86	Mc	5 15.9	20.0
200073 2190 $T\text{-}_{2}$	16.7	X	258.68988	169.16961	193.19180	7.00237	0.2787135	0.28305120	2.30	1.66	2.94	Mc	4 30.9	20.3
200175 1999 JH_{14}	16.0	X	168.17591	87.92296	63.95720	21.52384	0.2933926	0.28065709	2.31	1.63	2.99	Mc	9 7.9	20.6
200182 1999 OT_{3}	18.5	X	130.62822	94.82837	253.59797	7.33994	0.3307814	0.33286104	2.06	1.38	2.74	Mc	—	—
200589 2001 RQ_{12}	18.0	X	358.91806	98.14814	208.39429	5.46603	0.2545536	0.29563350	2.23	1.66	2.80	Mc	8 19.1	18.9
200597 2001 RA_{77}	16.3	X	287.56079	308.77691	89.24670	4.69876	0.2731843	0.28949103	2.26	1.64	2.88	Mc	7 22.4	18.8
200607 2001 RG_{145}	16.9	X	29.33011	257.23600	41.35029	7.11481	0.3436397	0.29852571	2.22	1.46	2.98	Mc	11 7.7	19.2
200648 2001 TU_{1}	17.4	X	325.58758	315.90438	16.36103	3.65687	0.2869466	0.29250772	2.25	1.60	2.89	Mc	6 15.1	18.8
200689 2001 UY_{1}	17.0	X	49.53952	29.40648	265.51844	6.35904	0.2884436	0.29899702	2.21	1.58	2.85	Mc	11 18.5	20.0
200701 2001 UN_{79}	17.1	X	216.92106	78.89334	36.63301	23.07144	0.3309167	0.28620100	2.28	1.53	3.04	Mc	8 28.6	21.6
200740 2001 VG_{95}	16.3	X	238.68758	193.13001	171.08214	11.26341	0.3185936	0.27959467	2.32	1.58	3.05	Mc	4 16.4	20.5
200765 2001 XW_{3}	16.0	X	283.03064	274.69708	65.30638	22.22323	0.2818976	0.28038581	2.31	1.66	2.96	Mc	5 1.0	19.6
201456 2003 FX_{79}	16.3	X	140.74975	169.99267	124.19164	2.70160	0.3998773	0.24508398	2.53	1.52	3.54	Mc	—	—
202079 2004 SR_{39}	16.7	X	224.14566	130.85997	237.81720	0.49949	0.2998737	0.27049462	2.37	1.66	3.08	Mc	4 10.4	20.9
202914 1997 PA	16.3	X	338.57974	23.54089	317.21201	8.78156	0.2848465	0.28835442	2.27	1.62	2.92	Mc	8 15.9	16.6
203117 2000 SN_{218}	16.5	X	280.43589	200.25778	136.63672	7.28554	0.3194933	0.27148870	2.36	1.61	3.12	Mc	4 16.6	20.2
203269 2001 QP_{280}	17.1	X	349.11685	266.33595	99.77113	5.99688	0.2541649	0.29800174	2.22	1.66	2.78	Mc	11 19.3	18.3
203272 2001 RL_{6}	17.1	X	315.43624	39.25263	350.16841	5.35168	0.2668979	0.29450681	2.24	1.64	2.83	Mc	9 9.1	18.1
203387 2001 XK_{103}	16.4	X	311.11727	315.04509	19.78538	8.13174	0.2900965	0.28482821	2.29	1.62	2.95	Mc	5 18.7	18.8
203467 2001 YR_{151}	16.3	X	331.75648	4.10652	339.18031	5.91357	0.2799294	0.28756199	2.27	1.64	2.91	Mc	7 29.4	17.2
203727 2002 QM_{47}	15.9	X	216.73466	176.38764	107.78973	8.39766	0.3619997	0.23641574	2.59	1.65	3.53	Mc	1 1.2	20.9
204309 2004 RQ_{3}	16.1	X	102.75120	295.39060	110.03456	5.45725	0.3223806	0.25766942	2.45	1.66	3.23	Mc	2 21.0	19.0
204517 2005 EL_{21}	15.7	X	34.95031	285.70877	132.15268	7.09384	0.3685072	0.23645066	2.59	1.64	3.54	Mc	—	—
204627 2005 WK_{54}	16.9	X	54.18039	45.83259	271.22096	3.23645	0.2991392	0.31096407	2.16	1.51	2.80	Mc	12 25.0	20.0
204914 2008 SQ_{35}	16.0	X	159.46810	312.93393	12.73665	13.26195	0.3217791	0.26050179	2.43	1.65	3.21	Mc	1 9.6	20.3
205284 2000 SQ_{154}	16.9	X	327.99738	240.87178	58.98062	3.13838	0.3269357	0.27429494	2.35	1.58	3.11	Mc	4 21.6	19.0
205457 2001 QY_{12}	16.8	X	65.78239	26.55398	325.21677	5.23335	0.2393196	0.30793341	2.17	1.65	2.69	Mc	—	—
205498 2001 RX_{8}	17.4	X	140.38570	253.02091	67.40222	6.39343	0.3454459	0.31609914	2.13	1.40	2.87	Mc	—	—
205560 2001 SC_{282}	16.0	X	216.41371	292.89454	146.85288	20.31452	0.2881003	0.28343438	2.30	1.63	2.96	Mc	7 3.5	20.3
205640 2001 XQ_{4}	16.1	X	19.23169	282.86527	56.37703	8.85003	0.3362567	0.29414289	2.24	1.49	2.99	Mc	12 17.9	18.6
205698 Troiani	16.3	X	95.22797	255.13480	303.35617	20.93776	0.2937328	0.27290639	2.35	1.66	3.05	Mc	8 21.8	20.2
206253 2002 XM_{63}	17.2	X	70.83424	248.41158	126.70086	5.30324	0.2998512	0.32334319	2.10	1.47	2.73	Mc	—	—
206335 2003 OV_{22}	15.4	X	52.95859	351.76132	351.19460	9.08602	0.3844009	0.22794017	2.65	1.63	3.67	Mc	—	—

ELEMENTS AND OPPOSITION DATES OF SOME UNUSUAL MINOR PLANETS

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
206342 2003 PQ_6	17.3	X	176.33056	103.81462	314.28687	15.32743	0.0679634	0.42469692	1.75	1.63	1.87	Mc	4 2.9	19.4
206913 2004 PH_{20}	16.2	X	239.79931	271.53889	134.20324	20.63162	0.3337446	0.27654686	2.33	1.55	3.11	Mc	6 8.9	20.6
206918 2004 PT_{89}	17.2	X	47.98243	198.08610	137.65445	2.78633	0.2514935	0.29902120	2.21	1.66	2.77	Mc	—	—
206921 2004 PU_{100}	16.7	X	45.51811	155.02488	184.77551	3.10034	0.2629981	0.29837480	2.22	1.63	2.80	Mc	—	—
206924 2004 PP_{102}	17.0	X	51.11061	43.19049	303.42512	5.11945	0.2518418	0.30103943	2.20	1.65	2.76	Mc	—	—
206999 2004 TJ_{220}	16.7	X	276.68334	331.55554	51.81445	9.24974	0.2976056	0.28243337	2.30	1.62	2.99	Mc	6 11.4	20.0
207020 2004 VX_{14}	16.9	X	232.71764	342.91850	316.87340	5.27109	0.2449244	0.32138529	2.11	1.59	2.63	Mc	1 19.9	20.3
207027 2004 VD_{59}	17.2	X	105.03381	54.27787	264.35274	5.43784	0.2984473	0.30368440	2.19	1.54	2.85	Mc	—	—
207408 2006 BY_{172}	17.3	X	183.80062	6.05389	284.26915	3.88485	0.2348997	0.31477724	2.14	1.64	2.64	Mc	—	—
207648 2007 LP_{18}	16.5	X	198.25986	157.12406	159.09503	2.06777	0.3602380	0.25143709	2.49	1.59	3.38	Mc	1 24.7	21.3
207943 1979 MN_4	16.6	X	299.08816	98.12242	253.87973	5.30956	0.3656884	0.27958866	2.32	1.47	3.16	Mc	5 15.8	19.8
207974 1996 RM_1	16.7	X	30.90583	133.48902	156.93849	10.50081	0.3617822	0.27925448	2.32	1.48	3.16	Mc	11 2.2	19.5
208027 1999 JQ_{77}	16.8	X	127.46754	180.41219	102.23028	5.92415	0.3175104	0.28594037	2.28	1.56	3.01	Mc	—	—
208226 2000 SO_{226}	17.0	X	259.87755	232.03237	120.97412	6.45015	0.3107686	0.26908614	2.38	1.64	3.11	Mc	4 20.2	21.0
208563 2002 CL_4	16.9	X	74.52553	245.99942	127.64255	5.97878	0.2453744	0.30114402	2.20	1.66	2.75	Mc	—	—
208661 2002 GE_4	17.2	X	178.24320	108.21606	54.58240	22.65198	0.3005460	0.27858103	2.32	1.62	3.02	Mc	9 29.5	21.8
208823 2002 RJ_{27}	17.8	X	258.58061	287.41599	155.86230	5.18136	0.2561525	0.36234120	1.95	1.45	2.45	Mc	8 24.1	19.4
208879 2002 TF_{58}	16.4	X	260.94709	209.03785	6.32105	30.88664	0.2808029	0.38506594	1.87	1.35	2.40	Mc	—	—
209035 2003 NJ_1	16.3	X	257.69211	279.98217	67.96057	9.17500	0.3366647	0.26322255	2.41	1.60	3.22	Mc	4 11.7	20.6
209519 2004 RQ_{326}	16.3	X	192.75358	88.91599	23.21037	22.19473	0.2930435	0.27247161	2.36	1.67	3.05	Mc	8 4.1	21.0
209949 2006 FH_{12}	17.1	X	53.35278	151.35175	204.23179	3.31988	0.2707640	0.29682441	2.23	1.62	2.83	Mc	—	—
210389 2007 VA_{149}	17.6	X	167.17339	106.94351	208.02453	1.84330	0.2341691	0.30719067	2.18	1.67	2.68	Mc	—	—
210482 1996 RW_1	16.8	X	54.85321	322.67474	354.56821	6.11232	0.3036872	0.28292887	2.30	1.60	3.00	Mc	12 22.1	20.3
210635 2000 GQ_7	16.1	X	185.67294	118.09382	200.07795	4.71414	0.3856418	0.31130572	2.16	1.32	2.99	Mc	1 13.8	20.1
210669 2000 QK_{117}	16.2	X	192.68445	287.06598	144.44987	21.49175	0.3344318	0.26752747	2.39	1.59	3.18	Mc	6 8.7	21.1
210705 2000 SY_{155}	16.4	X	355.43882	355.65267	49.69926	6.18563	0.2772164	0.28547037	2.28	1.65	2.92	Mc	—	—
210718 2000 ST_{252}	15.2	X	313.96337	15.33558	74.37975	7.47712	0.3922814	0.14379728	3.61	2.19	5.02	Jc	10 18.5	18.8
210744 2000 UE_{75}	16.4	X	86.76176	235.39240	94.07573	5.51171	0.2813810	0.29134822	2.25	1.62	2.89	Mc	—	—
210764 2000 WZ_{134}	16.7	X	133.18311	339.31667	343.25236	6.15398	0.2701095	0.29638650	2.23	1.63	2.83	Mc	—	—
210806 2001 HN_{40}	16.1	X	312.66576	166.52705	112.21669	8.53375	0.3732630	0.24150954	2.55	1.60	3.51	Mc	3 1.9	19.8
211042 2002 CL_{25}	15.9	X	299.14993	59.82344	2.94205	23.96993	0.3219638	0.28593860	2.28	1.55	3.02	Mc	9 17.1	17.5
211078 2002 EG_3	16.8	X	146.50044	96.14284	174.38155	23.36685	0.2756310	0.28543270	2.28	1.65	2.91	Mc	—	—
211206 2002 OM_{24}	17.0	X	258.38453	203.96230	229.84400	10.42591	0.2826307	0.36294420	1.95	1.40	2.50	Mc	7 31.8	19.7
211397 2002 VD_{14}	17.3	X	246.48752	290.27126	50.03626	7.42276	0.2649946	0.29382853	2.24	1.65	2.83	Mc	3 26.3	21.2
211583 2003 SA_{183}	16.9	X	223.49830	297.43212	349.50264	3.75828	0.2615518	0.30350188	2.19	1.62	2.77	Mc	—	—
212188 2005 GX_{94}	16.3	X	6.69496	129.68913	196.65562	14.05315	0.3557544	0.25732473	2.45	1.58	3.32	Mc	11 3.7	18.1
212748 2007 TB_2	17.5	X	72.48583	329.43420	7.38612	3.07375	0.2653388	0.29621455	2.23	1.64	2.82	Mc	—	—
213050 1998 TS_3	17.7	X	110.20872	339.52557	198.27951	34.49366	0.1224892	0.42313007	1.76	1.54	1.97	Mc	7 26.8	20.7
213084 1999 TN_{169}	17.2	X	88.67750	89.06974	214.25833	5.54574	0.2880896	0.27742021	2.33	1.66	3.00	Mc	12 29.9	21.3
213152 2000 NO_{14}	17.6	X	239.38018	189.41328	127.87171	2.00508	0.2464787	0.31395369	2.14	1.62	2.67	Mc	2 16.1	20.9
213158 2000 QE_{55}	17.3	X	283.76192	295.50681	357.46071	5.90470	0.2746341	0.31769952	2.13	1.54	2.71	Mc	2 20.9	20.5
213177 2000 SW_{125}	16.5	X	209.36093	48.19183	35.21020	24.16983	0.3205073	0.26909612	2.38	1.61	3.14	Mc	6 29.8	21.3
213332 2001 SV_{148}	17.0	X	317.11474	72.27290	231.08569	4.58303	0.2833922	0.28834366	2.27	1.63	2.91	Mc	4 13.0	19.6
213548 2002 JV_{115}	17.4	X	86.90593	136.49848	177.19517	5.59709	0.3907731	0.27569146	2.34	1.42	3.25	Mc	—	—
213640 2002 RA_{62}	16.4	X	16.38314	310.88363	19.69300	10.27181	0.3233143	0.26200442	2.42	1.64	3.20	Mc	11 19.6	18.9
213812 2003 NE	16.9	X	167.79111	231.24751	117.49782	7.80787	0.3262790	0.30214771	2.20	1.48	2.92	Mc	2 5.9	20.4
213849 2003 SF_{55}	16.5	X	219.81922	237.50485	186.33358	21.55769	0.3369247	0.26091131	2.43	1.61	3.24	Mc	6 13.5	21.4
213895 2003 TF_6	16.8	X	203.33406	198.10142	98.17399	6.98088	0.2613353	0.30170002	2.20	1.63	2.78	Mc	—	—
213948 2003 WL_{126}	16.4	X	358.49784	92.19503	351.25839	3.75955	0.3887857	0.22433393	2.68	1.64	3.73	Mc	—	—
214088 2004 JN_{13}	15.3	X	133.18082	279.14089	85.11066	13.33926	0.6900053	0.20039028	2.89	0.90	4.89	Ja	3 11.2	21.5
214529 2006 KU_{41}	16.8	X	190.42056	304.14337	50.11133	3.03115	0.2452451	0.31372788	2.15	1.62	2.67	Mc	2 24.9	20.3
214607 2006 RF_{22}	16.2	X	66.53136	264.93819	38.70987	5.40914	0.3074402	0.27116108	2.36	1.64	3.09	Mc	12 13.8	19.9
215120 1999 JG_4	16.7	X	209.21086	34.12304	252.62406	7.82682	0.2842036	0.29694192	2.23	1.59	2.86	Mc	—	—
215121 1999 JB_{11}	18.4	X	302.18165	30.91563	216.47472	37.09607	0.2545997	0.39415591	1.84	1.37	2.31	Mc	—	—
215122 1999 LG_4	16.1	X	247.46245	79.86585	248.22956	24.36697	0.2593472	0.30377405	2.19	1.62	2.76	Mc	2 24.3	20.5
215144 1999 UV_{51}	16.3	X	84.29670	281.92445	62.90464	22.81173	0.2861874	0.27895343	2.32	1.66	2.98	Mc	—	—
215189 2000 NK_{10}	17.4	X	243.03276	217.14932	113.59865	4.06868	0.2685176	0.31537261	2.14	1.56	2.71	Mc	3 8.1	20.9
215197 2000 SN_{42}	18.4	X	141.32037	284.48621	173.69504	4.37274	0.1185646	0.40913745	1.80	1.58	2.01	Mc	5 8.9	20.0
215250 2001 KS_{62}	15.5	X	35.26392	188.89919	124.16382	11.12189	0.3365142	0.25510482	2.46	1.63	3.29	Mc	11 29.1	18.9
215263 2001 OW_{23}	15.7	X	165.86048	88.14809	293.88511	21.34594	0.3213226	0.27412944	2.35	1.59	3.10	Mc	3 6.3	20.3
215278 2001 QW_{82}	16.5	X	345.71805	138.54907	186.63303	19.66063	0.3542657	0.24421959	2.53	1.64	3.43	Mc	7 24.4	18.3
215476 2002 RP_{134}	17.1	X	45.24621	255.39593	61.60450	6.90190	0.3468080	0.26601527	2.39	1.56	3.22	Mc	12 14.7	20.5
215489 2002 TG_{57}	17.0	X	74.49952	261.15773	19.36742	3.84377	0.3212534	0.26503158	2.40	1.63	3.17	Mc	11 22.6	20.8
215528 2002 VQ_{91}	16.6	X	339.69458	267.56917	77.13982	13.09362	0.3374140	0.25530158	2.46	1.63	3.29	Mc	8 30.1	17.9
215664 2003 UL_{214}	16.8	X	291.19679	40.95090	237.50754	4.57126	0.2546887	0.31028350	2.16	1.61	2.71	Mc	2 8.6	20.1
216265 2006 WD_{60}	17.4	X	120.79109	156.51431	175.23113	5.20932	0.3025741	0.28335697	2.30	1.60	2.99	Mc	—	—
216464 1974 PB	17.3	X	98.46149	190.80530	146.28267	6.58506	0.3430461	0.27933554	2.32	1.52	3.11	Mc	—	—
216519 2001 FP_{24}	16.9	X	58.68902	358.11111	218.00072	8.24595	0.3278861	0.25357554	2.47	1.66	3.28	Mc	8 13.0	20.2
216556 2001 VF_{16}	19.1	X	120.23818	327.76616	275.33891	9.33109	0.0652442	0.59678528	1.40	1.31	1.49	Mc	—	—
216595 2002 PB_8	17.6	X	76.60674	105.78718	285.99384	1.61787	0.3053137	0.27858896	2.32	1.61	3.03	Mc	—	—
216639 2003 GK_{21}	17.0	X	295.18641	345.36637	66.13493	6.74014	0.2702749	0.34938696	2.00	1.46	2.54	Mc	9 8.8	18.0
216646 2003 QT_{56}	17.1	X	292.95152	160.30192	135.03222	7.54865	0.2459305	0.31655276	2.13	1.61	2.66	Mc	3 8.2	20.0
216652 2003 UG_{15}	17.6	X	235.08017	261.15382	18.10479	7.67192	0.2519585	0.30216237	2.20	1.65	2.75	Mc	—	—
216653 2003 UJ_{20}	17.2	X	222.03295	55.15088	257.97334	5.33291	0.2420050	0.30425020	2.19	1.66	2.72	Mc	1 28.1	20.9
216689 2004 HM_1	16.9	X	227.78723	159.67425	151.93902	4.16047	0.5301578	0.21394556	2.77	1.30	4.24	Mc	2 5.9	22.7
216722 2005 EC_{286}	15.8	X	139.78365	249.03155	45.59632	22.57120	0.2991343	0.27938904	2.32	1.62	3.01	Mc	—	—
216773 2006 BR_8	16.7	X	175.80857	34.48364	174.36777	29.05286	0.3293700	0.35668170	1.97	1.32	2.62	Mc	11 18.6	20.6
216917 1990 TH_1	17.4	X	346.35167	112.65359	204.96489	26.93691	0.2312109	0.41191746	1.79	1.38	2.20	Mc	7 30.3	18.9
216947 1999 TM_{258}	17.4	X	186.67019	70.99587	259.34556	2.60161	0.2666218	0.29252838	2.25	1.65	2.85	Mc	1 25.1	21.2
217025 2001 OK_{14}	16.0	X	318.18945	52.34349	307.82383	10.05023	0.3658633	0.24484271	2.53	1.60	3.46	Mc	6 30.9	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
217105 2001 XS_{95}	16.3	X	288.48197	74.58116	261.51719	4.56404	0.3728416	0.23417824	2.61	1.63	3.58	Mc	4 14.9	20.6
217145 2002 ML_{2}	17.0	X	156.48707	44.05791	280.81519	5.51648	0.2744041	0.28427424	2.29	1.66	2.92	Mc	—	—
217160 2002 PB_{84}	16.8	X	97.63954	49.60417	336.28531	5.51195	0.2963204	0.27947330	2.32	1.63	3.00	Mc	1 5.6	18.8
217251 2003 UM_{25}	16.5	X	308.07018	69.15111	240.01473	7.02646	0.2694805	0.31566364	2.14	1.56	2.71	Mc	4 6.4	19.0
217257 Valemangano	17.8	X	267.41512	101.85699	213.44314	5.41040	0.3669855	0.31208468	2.15	1.36	2.94	Mc	2 26.7	21.6
217262 2003 YN_{3}	17.0	X	201.65890	82.74058	291.92097	6.29616	0.3029884	0.30415355	2.19	1.53	2.85	Mc	3 27.9	21.0
217517 2006 UZ_{143}	17.2	X	210.16132	30.35920	304.83846	1.64647	0.2720148	0.29890514	2.22	1.61	2.82	Mc	2 17.1	20.9
217647 1998 OR_{11}	16.3	X	74.79646	67.22068	315.37380	22.33838	0.2950995	0.27116158	2.36	1.67	3.06	Mc	—	—
217683 1999 RP_{36}	18.8	X	191.90865	321.71121	57.88078	5.48431	0.4161987	0.29647258	2.23	1.30	3.15	Mc	4 4.3	23.2
217686 1999 RY_{90}	16.8	X	193.10288	352.83546	11.20108	6.51991	0.2754759	0.29600000	2.23	1.62	2.84	Mc	3 13.6	20.6
217716 1999 VB_{80}	17.3	X	196.59015	106.78649	226.16777	4.78067	0.3271170	0.29314690	2.24	1.51	2.98	Mc	2 5.6	21.4
217726 1999 WN	16.7	X	167.37067	265.90681	90.37527	4.12811	0.2638551	0.29054897	2.26	1.66	2.85	Mc	2 12.1	20.3
217756 2000 QW_{8}	17.6	X	12.20099	131.02068	174.45897	4.47205	0.2946099	0.32990003	2.07	1.46	2.69	Mc	10 17.4	18.6
218053 2002 DT_{1}	17.4	X	328.48702	30.43671	266.89109	1.93552	0.2453463	0.31891165	2.12	1.60	2.64	Mc	4 27.1	18.9
218082 2002 GU_{118}	17.0	X	224.98645	211.88968	71.08233	4.07247	0.3168692	0.29589665	2.23	1.52	2.94	Mc	—	—
218098 2002 MG	15.7	X	129.03760	130.43247	224.90575	23.78874	0.2769062	0.28266563	2.30	1.66	2.94	Mc	—	—
218116 2002 PG_{68}	17.7	X	178.47878	107.67146	149.29405	4.41724	0.2932932	0.28127883	2.31	1.63	2.98	Mc	—	—
218144 2002 RL_{66}	15.0	X	101.88749	74.94932	23.94596	22.72639	0.3418721	0.28172656	2.30	1.52	3.09	Mc	4 26.4	18.2
218251 2003 AE_{1}	15.9	X	70.67736	285.77738	106.51868	22.82841	0.3530074	0.27370532	2.35	1.52	3.18	Mc	—	—
218271 2003 ED_{4}	15.7	X	3.46497	255.89329	163.38240	22.57687	0.3794666	0.25900538	2.44	1.51	3.36	Mc	—	—
218323 2003 YM_{117}	17.0	X	259.11712	277.12187	95.45441	5.85870	0.2703860	0.31076414	2.16	1.57	2.74	Mc	5 14.4	20.4
218340 2004 BU_{129}	16.7	X	160.47218	40.71327	291.29048	7.78070	0.3103914	0.28756563	2.27	1.57	2.98	Mc	1 10.7	20.2
218597 2005 MY_{52}	16.6	X	114.98548	144.91280	193.52749	5.90729	0.3059880	0.27004637	2.37	1.65	3.10	Mc	—	—
218609 2005 OZ_{3}	15.9	X	358.36422	272.91669	115.79587	12.00264	0.3603142	0.25357588	2.47	1.58	3.36	Mc	—	—
218813 2006 SO_{14}	17.5	X	265.43798	46.30768	248.70994	3.41303	0.2587768	0.30801722	2.17	1.61	2.73	Mc	2 7.7	21.0
218818 2006 SA_{263}	17.3	X	290.36590	120.04929	176.97840	2.82680	0.2341559	0.30919690	2.17	1.66	2.67	Mc	3 7.9	20.1
219093 1998 RK_{74}	16.1	X	127.77230	131.87997	200.31580	6.84959	0.3254490	0.27296475	2.35	1.59	3.12	Mc	—	—
219253 1999 XU_{238}	17.1	X	213.65127	67.26714	290.30419	3.73261	0.2585714	0.29618066	2.23	1.65	2.81	Mc	3 17.4	20.9
219275 2000 BL_{11}	17.2	X	141.39855	79.49784	289.50273	5.64539	0.2783669	0.28472761	2.29	1.65	2.93	Mc	2 4.2	20.6
219315 2000 ET_{118}	15.3	X	63.59577	92.93724	355.27185	23.39619	0.2946707	0.28047320	2.31	1.63	2.99	Mc	2 4.7	17.1
219319 2000 FH_{10}	18.2	X	189.56312	355.04061	7.12775	9.84196	0.1140045	0.46306404	1.65	1.47	1.84	Mc	2 4.2	19.6
219330 2000 KO_{1}	15.8	X	300.68571	109.76925	192.85759	30.43686	0.3892607	0.22854387	2.65	1.62	3.68	Mc	3 14.5	20.2
219481 2001 DF_{15}	15.7	X	143.51179	240.04943	341.40650	22.51860	0.3228709	0.26448861	2.40	1.63	3.18	Mc	10 21.2	20.6
219522 2001 QH_{83}	16.3	X	108.55162	59.57495	285.70215	4.73377	0.3307216	0.26224709	2.42	1.62	3.22	Mc	—	—
219523 2001 QS_{84}	15.0	X	184.96386	89.05438	21.60544	27.92418	0.3683970	0.23010072	2.64	1.67	3.61	Mc	7 26.4	20.6
219778 2002 AQ_{8}	15.9	X	250.90229	118.11049	328.65732	27.35075	0.3805904	0.23332994	2.61	1.62	3.61	Mc	8 6.0	20.4
219844 2002 CQ_{148}	13.3	X	348.44369	170.18554	233.59528	2.36996	0.0795713	0.08717145	5.04	4.64	5.44	Jc	11 5.2	19.6
219914 2002 GX_{7}	17.2	X	276.54170	237.26060	49.08389	7.52084	0.2925298	0.30268382	2.20	1.55	2.84	Mc	2 8.8	20.9
220003 2002 PG_{45}	16.5	X	187.46281	322.87680	37.10972	3.81092	0.2853823	0.28847216	2.27	1.62	2.92	Mc	3 5.9	20.5
220006 2002 PS_{87}	16.0	X	264.96099	245.76760	326.97565	23.62392	0.2792214	0.28801574	2.27	1.64	2.90	Mc	—	—
220021 2002 QB_{16}	16.3	X	165.82964	116.96668	225.13826	20.79867	0.3059459	0.28589516	2.28	1.58	2.98	Mc	1 20.6	20.5
220038 2002 RW_{40}	17.5	X	134.46142	6.07918	13.33969	1.82980	0.2825816	0.28429087	2.29	1.64	2.94	Mc	2 12.8	20.7
220091 2002 ST_{33}	16.9	X	146.70049	87.37617	217.90426	5.93748	0.2952217	0.27813931	2.32	1.64	3.01	Mc	—	—
220095 2002 SU_{41}	17.7	X	248.68091	117.42266	357.74386	5.41766	0.0992203	0.41750916	1.77	1.60	1.95	Mc	11 6.6	18.7
220159 2002 TV_{247}	17.3	X	163.89718	102.92796	203.02052	11.12185	0.2931799	0.27984489	2.31	1.64	2.99	Mc	—	—
220169 2002 TY_{283}	17.4	X	132.09534	7.32705	359.95793	5.45674	0.2962317	0.28057326	2.31	1.63	3.00	Mc	1 29.2	20.5
220219 2002 VM_{99}	15.9	X	338.93657	113.54073	10.35458	22.13752	0.3353148	0.26622128	2.39	1.59	3.20	Mc	—	—
220240 2002 XF_{23}	16.7	X	123.31961	41.18290	306.86584	7.12848	0.2900482	0.27643498	2.33	1.66	3.01	Mc	—	—
220428 2003 UJ_{3}	18.2	X	335.33393	150.81301	157.17647	2.30627	0.2249287	0.31922854	2.12	1.64	2.60	Mc	6 7.4	19.2
220452 2003 YN_{117}	17.2	X	256.14393	7.63901	4.00796	6.80824	0.2940348	0.31176752	2.15	1.52	2.79	Mc	5 4.7	20.8
220906 2005 BC_{7}	17.8	X	241.54056	71.87098	130.86421	3.44156	0.1658930	0.34990801	1.99	1.66	2.33	Mc	—	—
220911 2005 EY_{139}	16.4	X	183.30832	197.00165	84.75323	8.93218	0.2946882	0.28397294	2.29	1.62	2.97	Mc	—	—
220921 2005 GS_{21}	17.3	X	315.07965	113.50404	157.75226	5.15980	0.2384769	0.30474422	2.19	1.67	2.71	Mc	3 1.9	19.9
221580 2006 VX_{95}	17.7	X	195.50972	323.79978	44.08391	7.62699	0.2552977	0.29958956	2.21	1.65	2.78	Mc	3 21.3	21.5
221674 2007 DY_{1}	16.6	X	93.49223	30.00408	44.72474	8.23856	0.3246965	0.28438556	2.29	1.55	3.03	Mc	3 18.7	19.1
221963 1995 SY_{35}	18.0	X	164.70624	155.35365	176.04725	6.28759	0.2752337	0.28356335	2.29	1.66	2.93	Mc	1 10.1	21.7
222079 1999 NE_{43}	17.0	X	266.86414	182.07272	120.44254	10.36398	0.3553051	0.30383637	2.19	1.41	2.97	Mc	2 15.9	20.9
222205 2000 DV_{117}	16.6	X	114.46620	57.13477	346.49343	7.63894	0.2934444	0.28025669	2.31	1.63	2.99	Mc	2 24.5	19.5
222389 2001 DA_{77}	18.0	X	350.69051	268.32175	172.15946	22.71535	0.2051211	0.42826699	1.74	1.39	2.10	Mc	—	—
222497 2001 SJ_{282}	16.0	X	230.96489	86.65217	345.66459	27.38354	0.3755995	0.23270108	2.62	1.63	3.60	Mc	7 5.8	21.3
222753 2002 CY_{25}	14.9	X	298.90598	37.37054	50.04558	13.02228	0.3682260	0.24017501	2.56	1.62	3.51	Mc	10 9.7	17.2
222931 2002 NQ_{7}	17.6	X	167.44223	143.92290	212.87121	4.83657	0.3847204	0.28750299	2.27	1.40	3.15	Mc	2 17.9	21.7
222956 2002 PF_{129}	17.1	X	264.28357	235.20684	31.18793	8.48278	0.2819729	0.29320843	2.24	1.61	2.88	Mc	1 6.3	21.1
223042 2002 TN_{56}	16.4	X	142.55070	186.78365	217.84496	8.21656	0.3024315	0.28584259	2.28	1.59	2.97	Mc	3 23.4	20.1
223050 2002 TS_{91}	17.1	X	168.81138	44.84478	304.12816	3.01556	0.2945607	0.28501190	2.29	1.61	2.96	Mc	2 5.7	20.7
223074 2002 TB_{256}	17.7	X	155.03838	118.66662	224.57619	2.89254	0.3367390	0.28297657	2.30	1.52	3.07	Mc	1 22.0	21.4
223145 2002 WX_{8}	15.8	X	134.95138	281.54689	87.60355	22.41862	0.3438671	0.28032167	2.31	1.52	3.11	Mc	2 12.5	19.7
223178 2003 AA_{4}	15.7	X	24.11492	291.04169	204.37216	22.35761	0.3135314	0.27354287	2.35	1.61	3.09	Mc	—	—
223483 2003 YF_{36}	17.0	X	258.44875	273.15795	84.13577	6.29915	0.2391161	0.30909811	2.17	1.65	2.68	Mc	4 27.2	20.2
223633 Rosnyaîné	16.0	X	319.09261	235.73655	112.27826	6.19556	0.3993022	0.23454801	2.60	1.56	3.64	Mc	6 6.8	18.5
224000 2005 GX_{8}	16.3	X	273.61952	263.63186	32.69899	23.39665	0.2665142	0.30057986	2.21	1.62	2.80	Mc	3 3.4	20.3
224004 2005 GX_{59}	16.6	X	226.43453	144.31521	163.11619	6.93997	0.2929897	0.29359767	2.24	1.59	2.90	Mc	1 26.4	20.6
224783 2006 QP_{82}	17.8	X	263.87541	154.60749	166.98423	3.91585	0.3101755	0.31112189	2.16	1.49	2.83	Mc	3 9.3	21.3
225333 1998 QB_{105}	16.1	X	145.65992	232.65988	84.87595	23.28549	0.3682361	0.27514591	2.34	1.48	3.20	Mc	—	—
225454 2000 EY_{14}	16.1	X	62.66371	75.94049	65.33285	21.99722	0.2949997	0.28378098	2.29	1.62	2.97	Mc	5 1.9	18.1
225488 2000 HT_{15}	18.1	X	352.66226	353.00156	219.39726	24.54760	0.1075833	0.46410774	1.65	1.47	1.83	Mc	1 4.7	20.1
225743 2001 SM_{36}	15.9	X	51.91553	110.26072	15.46974	22.78027	0.3328790	0.26685958	2.39	1.59	3.18	Mc	3 17.8	17.2
226046 2002 GV_{75}	17.8	X	3.56258	33.55335	252.23036	2.47303	0.2289626	0.31564143	2.14	1.65	2.63	Mc	7 23.7	18.5
226082 2002 LQ_{20}	17.2	X	276.41201	209.32316	77.91487	6.62104	0.2704952	0.29915158	2.21	1.62	2.81	Mc	2 10.9	20.8
226087 2002 NM_{26}	17.0	X	199.08332	174.97464	158.16786	4.04753	0.2660975	0.29004522	2.26	1.66	2.86	Mc	2 7.2	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
226131 2002 RA_{44}	16.9	X	232.82334	327.91424	5.23458	4.82403	0.2564312	0.29469697	2.24	1.66	2.81	Mc	3 4.9	20.8
226201 2002 UH_{38}	16.8	X	117.69197	281.89141	174.15318	21.94752	0.3117871	0.28687462	2.28	1.57	2.99	Mc	5 12.9	20.6
226213 2002 VR_{51}	17.3	X	157.74656	357.56801	85.99035	5.55232	0.2688097	0.29079195	2.26	1.65	2.86	Mc	5 24.5	21.1
226237 2002 XQ_{14}	16.6	X	125.30531	49.05756	312.51133	9.43071	0.3189816	0.27681700	2.33	1.59	3.08	Mc	1 17.4	19.5
227124 2005 OE_{2}	16.9	X	62.24451	268.82582	81.19863	5.40681	0.3150533	0.26207231	2.42	1.66	3.18	Mc	—	—
227126 2005 OP_{4}	16.7	X	155.46572	305.58289	57.37030	5.95650	0.2879883	0.27842640	2.32	1.65	2.99	Mc	2 15.0	20.5
227764 2006 SU_{59}	17.4	X	234.49189	5.89074	321.87186	8.12132	0.2866453	0.30578926	2.18	1.56	2.81	Mc	2 23.9	21.3
228231 1998 QT_{101}	17.3	X	112.28515	241.04103	108.46153	2.48317	0.3030853	0.27266041	2.36	1.64	3.07	Mc	—	—
228267 1999 TC_{200}	16.2	X	65.38667	265.73084	236.73274	19.68798	0.3105872	0.29016521	2.26	1.56	2.96	Mc	5 2.3	18.0
228283 2000 AO_{60}	17.2	X	59.73148	254.44069	297.22232	5.08952	0.3621066	0.28704887	2.28	1.45	3.10	Mc	7 20.9	19.6
228404 2001 EQ_{17}	16.7	X	121.74416	107.07897	49.95760	24.71144	0.2460700	0.30546493	2.18	1.65	2.72	Mc	8 3.6	20.7
228572 2001 YY_{4}	17.6	X	77.34589	110.88823	8.82644	10.15571	0.2265829	0.36578766	1.94	1.50	2.38	Mc	3 19.5	18.0
228695 2002 PU_{92}	17.9	X	232.54184	76.96424	251.01237	1.56768	0.3234809	0.29393730	2.24	1.52	2.96	Mc	2 23.6	22.1
228810 2003 BZ_{2}	16.5	X	155.58945	294.35569	108.74288	23.83046	0.3052319	0.28262644	2.30	1.60	3.00	Mc	4 15.6	21.0
228862 2003 GX_{31}	14.3	X	339.58923	136.00108	48.93758	10.73341	0.2258433	0.10380779	4.48	3.47	5.50	Jc	2 1.0	19.8
229378 2005 SN_{8}	17.2	X	11.36261	289.89769	3.54326	3.50167	0.2404763	0.30410129	2.19	1.66	2.72	Mc	9 5.3	18.1
229835 2009 QA_{31}	17.1	X	181.75299	299.26136	22.38552	12.30855	0.2746409	0.28787537	2.27	1.65	2.90	Mc	1 15.2	21.1
229958 1999 RD_{43}	17.3	X	296.88695	264.54342	81.12480	8.15228	0.3530819	0.30729784	2.17	1.41	2.94	Mc	5 7.4	20.1
229986 1999 XZ_{121}	17.5	X	256.60693	45.90353	324.23193	4.88808	0.2922612	0.30324744	2.19	1.55	2.84	Mc	5 3.8	21.2
230136 2001 PH_{10}	16.6	X	138.30144	238.68939	148.60957	5.09254	0.2947789	0.27221661	2.36	1.66	3.05	Mc	3 1.2	20.1
230508 2002 VP_{17}	17.1	X	223.13646	226.76222	164.22803	6.28240	0.2651708	0.29479548	2.24	1.64	2.83	Mc	5 9.2	20.9
231700 1998 SU_{12}	16.4	X	140.97308	251.59152	156.21778	20.74011	0.3013637	0.27876625	2.32	1.62	3.02	Mc	4 1.4	20.3
231707 1998 TP	15.6	X	171.67564	69.58978	44.77238	22.98568	0.2634127	0.28975292	2.26	1.67	2.86	Mc	7 15.8	20.0
231716 1999 BT_{2}	15.5	X	14.16036	144.74689	322.37316	23.85419	0.3407716	0.26408328	2.41	1.59	3.23	Mc	—	—
231801 2000 EB_{20}	15.7	X	64.76108	85.84230	177.11097	23.11461	0.2943957	0.29217351	2.25	1.59	2.91	Mc	10 27.4	19.2
232397 2003 CX_{3}	15.5	X	173.74173	241.42143	139.70769	23.25814	0.2870477	0.27852041	2.32	1.66	2.99	Mc	3 25.9	19.8
232757 2004 NJ_{7}	16.8	X	41.45398	31.48168	237.55875	4.31456	0.3071380	0.29197305	2.25	1.56	2.94	Mc	10 5.1	19.2
232772 2004 PG_{61}	15.8	X	274.27128	317.89142	4.96477	11.44424	0.2890614	0.27613449	2.34	1.66	3.01	Mc	3 24.1	19.6
233080 2005 PG	16.2	X	180.49085	294.65777	72.98535	3.55132	0.3468239	0.27971003	2.32	1.51	3.12	Mc	3 13.4	20.5
233393 2006 FP_{17}	16.5	X	304.94780	106.95499	193.87500	11.85185	0.3255935	0.25919894	2.44	1.64	3.23	Mc	3 21.9	19.9
233949 2009 WC_{216}	16.8	X	133.19720	314.43360	115.58366	25.96778	0.3008151	0.28832197	2.27	1.59	2.95	Mc	4 30.9	21.1
233972 1992 PZ_{5}	16.8	X	134.52228	311.46286	342.61524	6.28366	0.3565505	0.31842017	2.12	1.37	2.88	Mc	—	—
234037 1998 VG_{57}	17.8	X	85.94398	60.29845	46.00694	2.49766	0.3894741	0.27499643	2.34	1.43	3.25	Mc	4 29.8	20.5
234148 2000 FF_{1}	16.3	X	55.30303	100.74095	93.75506	22.50262	0.2761490	0.28575202	2.28	1.65	2.91	Mc	6 30.7	18.2
234167 2000 KV_{69}	17.2	X	2.34080	80.77126	226.76399	1.09656	0.2897186	0.28479964	2.29	1.63	2.95	Mc	9 8.2	17.9
234197 2000 QE_{180}	15.9	X	309.97041	79.39597	352.00270	27.92354	0.3710592	0.23481612	2.60	1.64	3.57	Mc	9 25.7	17.8
234225 2000 SQ_{168}	16.9	X	322.09446	163.96427	265.72864	6.24087	0.3635701	0.23504777	2.60	1.65	3.55	Mc	11 17.8	17.7
234242 2000 SC_{340}	16.3	X	7.41806	262.00089	33.05089	5.62473	0.3283176	0.28273215	2.30	1.54	3.05	Mc	9 12.6	17.2
234302 2001 AA	16.5	X	269.20804	287.95985	154.69131	15.05818	0.3900907	0.22743841	2.66	1.62	3.69	Mc	8 8.7	20.6
234312 2001 BV_{1}	17.5	X	148.92009	247.07890	144.13093	33.14783	0.0543372	0.44085278	1.71	1.62	1.80	Mc	1 11.1	19.4
234330 2001 EF	15.5	X	167.80176	181.31941	89.85210	29.06819	0.3911392	0.22193065	2.70	1.65	3.76	Mc	—	—
234360 2001 MV_{25}	16.9	X	53.03494	209.51205	116.38479	8.19533	0.2708091	0.30595756	2.18	1.59	2.77	Mc	12 31.4	20.2
234382 2001 QC_{67}	16.9	X	72.19905	315.82355	2.54382	4.99124	0.2555632	0.30579486	2.18	1.62	2.74	Mc	—	—
234405 2001 RX_{16}	15.9	X	87.24977	57.28181	0.78674	22.91896	0.3084063	0.26524707	2.40	1.66	3.14	Mc	2 19.7	18.6
234458 2001 SJ_{181}	17.5	X	145.85787	42.98267	355.19423	1.36591	0.2940948	0.27345789	2.35	1.66	3.04	Mc	3 20.6	21.2
235041 2003 FA_{55}	16.2	X	90.54782	77.91181	37.38474	21.45559	0.3073892	0.27592876	2.34	1.62	3.05	Mc	5 3.3	19.1
235124 2003 QS_{33}	16.8	X	244.70714	315.01448	311.97241	2.74323	0.3261313	0.25357173	2.47	1.67	3.28	Mc	—	—
235601 2004 PW_{56}	16.9	X	282.66987	141.99452	195.02955	2.82026	0.2870047	0.28067621	2.31	1.65	2.97	Mc	4 19.0	20.2
235779 2004 VO_{75}	16.7	X	285.28648	353.46548	356.67772	6.74528	0.2872743	0.27744284	2.33	1.66	3.00	Mc	5 6.7	20.0
236095 2005 NB	15.6	X	171.19044	110.29260	234.54848	21.25758	0.3297641	0.28034779	2.31	1.55	3.07	Mc	1 28.8	20.1
236104 2005 QJ_{71}	17.2	X	245.44543	239.38495	168.99588	23.45646	0.2737530	0.29700223	2.22	1.62	2.83	Mc	6 18.6	21.3
236184 2005 WX_{3}	16.4	X	349.57035	290.98429	36.50528	23.74235	0.2535669	0.30172372	2.20	1.64	2.76	Mc	9 25.0	18.1
236393 2006 DH_{37}	15.8	X	121.25245	322.92311	355.84003	12.10933	0.3906486	0.23299313	2.62	1.59	3.64	Mc	—	—
236978 2008 OG_{3}	16.7	X	115.59083	222.00952	146.18128	5.30104	0.3168506	0.25896960	2.44	1.67	3.21	Mc	1 16.3	19.7
237088 2008 TW_{2}	16.3	X	215.89370	302.23359	39.70925	10.43951	0.2964900	0.27317987	2.35	1.65	3.05	Mc	3 8.8	20.7
237353 1207 T_{-2}	16.7	X	338.59251	314.09613	9.28452	5.71850	0.2939792	0.28645425	2.28	1.61	2.95	Mc	7 8.5	17.6
237465 1999 YG_{19}	18.4	X	163.07345	160.42595	116.21645	2.20754	0.2334630	0.31493860	2.14	1.64	2.64	Mc	—	—
237486 2000 KM_{2}	16.1	X	47.57282	148.52111	164.85831	25.66725	0.2996641	0.29147422	2.25	1.58	2.93	Mc	12 13.9	20.0
237495 2000 QF_{56}	16.8	X	54.68073	92.22349	145.34948	10.52258	0.2763259	0.28263345	2.30	1.66	2.94	Mc	9 5.4	19.4
237566 2001 BW_{1}	15.1	X	252.97122	256.96368	294.13048	26.53745	0.3810413	0.22949426	2.64	1.64	3.65	Mc	12 10.1	19.2
237610 2001 QB_{142}	16.9	X	152.94090	19.50173	27.03840	6.14180	0.3117931	0.27245802	2.36	1.62	3.09	Mc	4 7.6	20.8
237616 2001 RN_{4}	17.5	X	95.28117	128.15750	205.27147	3.07043	0.2356296	0.31077914	2.16	1.65	2.67	Mc	—	—
237709 2001 UN_{161}	16.9	X	50.98191	105.42205	225.30609	3.70875	0.2531431	0.29992343	2.21	1.65	2.77	Mc	—	—
237838 2002 EV_{71}	14.9	X	96.10959	132.06102	353.95980	10.95396	0.3129259	0.11167261	4.27	2.93	5.61	Jc	5 31.2	21.4
237881 2002 LN_{3}	15.9	X	205.29217	122.10040	187.75570	15.45757	0.3590519	0.23942899	2.57	1.65	3.49	Mc	1 20.4	21.1
238072 2003 FW_{7}	16.3	X	10.38674	247.86286	42.55983	8.74210	0.2941399	0.28232129	2.30	1.62	2.98	Mc	9 8.8	17.6
238453 2004 QF	17.3	X	81.15518	229.95390	179.25387	46.18127	0.1468964	0.42955867	1.74	1.48	2.00	Mc	—	—
238496 2004 RZ_{345}	17.3	X	74.26961	145.75209	154.24342	7.54147	0.2585702	0.29841799	2.22	1.64	2.79	Mc	12 16.4	20.9
238503 2004 SF_{54}	17.2	X	108.39435	136.78133	177.05228	8.88819	0.2789711	0.30533494	2.18	1.57	2.79	Mc	—	—
238518 2004 TC_{121}	17.1	X	54.48134	330.66117	327.11422	4.50459	0.2645934	0.29509604	2.23	1.64	2.83	Mc	11 23.4	20.2
238519 2004 TC_{133}	16.4	X	333.16420	310.24997	39.09605	4.94208	0.2906957	0.28581124	2.28	1.62	2.95	Mc	8 16.7	17.1
238851 2005 VS_{3}	16.6	X	259.54556	85.99571	248.83495	5.80011	0.2788748	0.28758445	2.27	1.64	2.91	Mc	3 23.7	20.5
238852 2005 VZ_{6}	16.8	X	132.37415	104.52833	348.29060	21.52086	0.2886482	0.28023890	2.31	1.65	2.98	Mc	5 6.3	21.0
239275 2007 KL_{7}	16.4	X	223.29633	299.55137	50.60211	3.61019	0.3307256	0.26165757	2.42	1.62	3.22	Mc	3 20.4	20.9
239390 2007 TA_{15}	16.5	X	52.46946	112.49324	212.58980	23.13989	0.3354924	0.29219315	2.25	1.49	3.00	Mc	12 30.3	20.5
239803 1995 WE_{4}	18.2	X	176.60961	209.49913	94.27482	6.34512	0.3176172	0.31830176	2.12	1.45	2.80	Mc	—	—
239825 1998 SO_{133}	17.6	X	98.76603	316.39932	7.21869	4.58286	0.2669250	0.31122959	2.16	1.58	2.73	Mc	—	—
239832 1998 YS_{31}	15.9	X	113.20206	257.46988	252.93084	22.56611	0.2918194	0.28195147	2.30	1.63	2.98	Mc	7 8.7	19.8
239874 2000 JN_{83}	17.2	X	90.78094	175.37869	80.04653	3.20443	0.2656434	0.29342714	2.24	1.65	2.84	Mc	11 5.5	20.7
239875 2000 KQ_{78}	16.8	X	82.26196	90.37701	217.76711	6.24501	0.2601810	0.29614593	2.23	1.65	2.81	Mc	12 31.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
239881 2000 QW_{55}	16.9	X	312.33500	354.98196	357.53151	5.48392	0.2837847	0.27835477	2.32	1.66	2.98	Mc	6 21.7	19.1
240292 2003 EB_{54}	16.9	X	59.89185	304.61039	205.10612	22.76467	0.3008862	0.27643469	2.33	1.63	3.04	Mc	5 4.7	18.7
240313 2003 GO_{35}	17.3	X	37.02894	250.51405	34.06925	22.98203	0.3100368	0.28380860	2.29	1.58	3.00	Mc	10 23.6	19.7
240565 2004 SD_{5}	16.3	X	251.01015	308.21284	91.12615	24.43461	0.2985665	0.27875879	2.32	1.63	3.01	Mc	6 10.4	20.1
240570 2004 TZ_{9}	17.4	X	112.17283	254.39927	51.14650	6.45827	0.2551841	0.30501566	2.19	1.63	2.74	Mc	—	—
240871 MOSS	16.4	X	358.16509	234.94163	348.80429	21.65208	0.3297963	0.26237385	2.42	1.62	3.21	Mc	3 1.2	18.1
241109 2007 MB_{10}	17.3	X	108.86613	168.19172	107.93465	4.14453	0.2559789	0.30101406	2.21	1.64	2.77	Mc	12 14.7	20.9
241112 2007 OF_{2}	17.1	X	113.88031	185.15917	130.61709	6.07439	0.3199215	0.30484370	2.19	1.49	2.89	Mc	—	—
241281 2007 UF_{2}	16.7	X	345.67881	260.09625	67.99240	12.40111	0.3126965	0.27912220	2.32	1.59	3.04	Mc	8 27.0	17.8
241649 2000 EC_{140}	16.7	X	147.92442	182.96819	95.53232	8.13434	0.2387089	0.30665618	2.18	1.66	2.70	Mc	—	—
241661 2000 JA_{72}	17.5	X	96.37465	224.30173	66.00886	7.23914	0.2948632	0.29706962	2.22	1.57	2.88	Mc	12 23.1	21.3
241673 2000 QG_{70}	15.7	X	356.11077	284.91821	145.85032	26.96162	0.3883319	0.24056406	2.56	1.57	3.55	Mc	—	—
241676 2000 QW_{158}	16.8	X	337.18467	174.17237	199.75122	6.97822	0.3221256	0.28309179	2.30	1.56	3.04	Mc	10 27.5	16.9
242188 2003 MO_{2}	16.9	X	345.86636	159.13631	147.67606	6.94459	0.2947781	0.27207398	2.36	1.66	3.05	Mc	6 28.7	17.9
242196 2003 PT_{9}	15.9	X	355.33178	239.85151	149.52654	23.66693	0.3234867	0.27731851	2.33	1.58	3.08	Mc	—	—
242464 2004 RB_{236}	17.6	X	145.17630	332.03335	315.79911	2.09373	0.2436547	0.30873183	2.17	1.64	2.70	Mc	—	—
242823 2006 BW_{275}	16.8	X	320.99907	318.86275	343.82897	5.46261	0.3203325	0.27752829	2.33	1.58	3.07	Mc	4 11.7	19.4
243100 2007 RQ_{31}	17.9	X	112.74396	87.86351	214.56627	6.54450	0.2636942	0.30251889	2.20	1.62	2.78	Mc	—	—
243127 2007 RY_{258}	16.5	X	129.92189	208.08706	98.31677	6.66313	0.2456160	0.30567813	2.18	1.65	2.72	Mc	—	—
243587 1998 DU_{9}	18.2	X	320.63891	278.11884	250.05395	4.94276	0.3361084	0.33327541	2.06	1.37	2.75	Mc	—	—
243618 1999 JU_{61}	16.0	X	270.79091	53.45991	238.05675	7.77579	0.3610409	0.25928945	2.44	1.56	3.32	Mc	2 5.1	20.5
243732 2000 KV_{13}	17.6	X	217.19738	42.04373	230.86401	3.90933	0.2458962	0.31082303	2.16	1.63	2.69	Mc	—	—
243775 2000 RA_{101}	16.8	X	69.46354	77.59491	208.97133	21.67684	0.2738845	0.28728839	2.27	1.65	2.90	Mc	11 25.4	20.5
243927 2001 OR_{33}	17.3	X	112.54038	212.65132	95.07171	7.20840	0.2474653	0.31195410	2.15	1.62	2.69	Mc	—	—
244049 2001 TL_{13}	17.2	X	108.60693	90.38124	227.93365	5.33678	0.3420688	0.31011950	2.16	1.42	2.90	Mc	—	—
244115 2001 VG_{4}	16.0	X	347.95130	73.78390	243.52688	21.11885	0.3749301	0.29069564	2.26	1.41	3.10	Mc	7 11.9	16.8
244456 2002 RS_{141}	17.8	X	185.22075	123.01500	255.72038	2.31980	0.2780349	0.29113277	2.25	1.63	2.88	Mc	3 23.8	21.8
244679 2003 OC_{8}	17.1	X	305.48145	6.88995	319.36343	2.20942	0.3215879	0.26813939	2.38	1.62	3.15	Mc	4 25.2	20.3
244689 2003 PW_{5}	17.2	X	63.98967	53.65194	238.95081	3.17821	0.2890626	0.28247227	2.30	1.64	2.97	Mc	11 28.3	20.7
244694 2003 QQ_{5}	17.0	X	9.34653	143.13083	167.18632	11.21857	0.3154591	0.27548892	2.34	1.60	3.08	Mc	10 11.9	18.5
244739 2003 SY_{27}	17.2	X	12.71060	138.83741	205.73027	4.66408	0.3196485	0.27776303	2.33	1.58	3.07	Mc	12 9.9	19.5
244790 2003 SQ_{210}	17.3	X	59.78675	23.80309	241.57197	5.74178	0.3455120	0.28008217	2.31	1.51	3.11	Mc	10 25.9	20.6
245115 2004 QO_{12}	17.5	X	110.74751	201.20886	104.52937	9.19795	0.2519642	0.30747985	2.17	1.63	2.72	Mc	—	—
245215 2004 WW_{9}	16.1	X	272.59996	313.93757	58.78529	24.12553	0.3008042	0.28136103	2.31	1.61	3.00	Mc	5 23.3	19.6
245236 2004 XL_{130}	16.2	X	92.77905	75.78725	299.17127	22.65386	0.2813651	0.30204795	2.20	1.58	2.82	Mc	—	—
246162 2007 QR	15.8	X	250.62182	351.41037	0.70787	11.59992	0.3106401	0.26446028	2.40	1.66	3.15	Mc	4 7.1	20.0
246336 2007 TW_{244}	17.4	X	149.61857	339.92990	333.64655	5.66408	0.2913621	0.30801354	2.17	1.54	2.80	Mc	—	—
246911 1998 QY_{96}	15.1	X	173.33735	114.87631	321.76839	29.75547	0.3576440	0.24258836	2.55	1.64	3.46	Mc	5 26.4	20.5
247056 2000 QW_{1}	16.0	X	102.13892	102.44320	268.40782	22.66299	0.2676402	0.29811133	2.22	1.63	2.81	Mc	—	—
247062 2000 QN_{115}	17.8	X	50.23567	84.76394	280.65986	1.88172	0.2680173	0.29211747	2.25	1.65	2.85	Mc	—	—
247087 2000 SC_{145}	17.3	X	77.98993	90.00746	228.09872	2.28981	0.2846533	0.29084324	2.26	1.61	2.90	Mc	—	—
247179 2001 DC_{9}	16.3	X	338.75264	70.99050	344.59179	22.89223	0.2943661	0.27836073	2.32	1.64	3.01	Mc	—	—
247429 2002 CQ_{292}	16.5	X	69.68325	49.64572	318.51518	7.43465	0.2634873	0.29891916	2.22	1.63	2.80	Mc	—	—
247665 2002 XY_{89}	16.6	X	240.46893	209.68222	153.96089	5.86664	0.3659549	0.24277411	2.54	1.61	3.48	Mc	4 16.4	21.3
247740 2003 LY_{3}	16.0	X	354.63432	57.59845	255.73245	20.70449	0.2887443	0.27712873	2.33	1.66	3.00	Mc	8 4.5	17.7
247743 2003 MX_{7}	16.0	X	65.28485	29.48355	315.69823	27.02521	0.2975302	0.28672596	2.28	1.60	2.96	Mc	—	—
247745 2003 NX_{8}	16.5	X	102.85623	131.17863	181.56121	21.84572	0.2876807	0.28889926	2.27	1.61	2.92	Mc	—	—
247748 2003 OL_{16}	15.8	X	340.41848	68.55213	328.35941	22.61437	0.3261127	0.27524815	2.34	1.58	3.10	Mc	12 26.4	17.8
247760 2003 QN_{5}	16.1	X	313.82652	105.93014	287.13319	20.92663	0.3137043	0.27264075	2.36	1.62	3.09	Mc	8 15.6	18.2
247779 2003 RU	17.0	X	16.01659	92.38675	299.74942	21.35392	0.3015530	0.28422747	2.29	1.60	2.98	Mc	—	—
247822 2003 SH_{180}	17.4	X	1.46886	23.66233	351.01737	4.78761	0.2982018	0.28019197	2.31	1.62	3.00	Mc	12 31.4	19.5
247827 2003 SN_{198}	16.5	X	39.25754	123.33317	235.35632	6.73453	0.2777489	0.28236872	2.30	1.66	2.94	Mc	—	—
247858 2003 UA_{38}	17.2	X	1.38488	268.63598	95.92366	8.46643	0.2859880	0.27807663	2.32	1.66	2.99	Mc	12 12.9	19.0
247877 2003 UU_{152}	16.2	X	323.59819	300.34641	69.36879	21.26684	0.3388456	0.26989214	2.37	1.57	3.17	Mc	8 21.9	18.2
247908 2003 VS	16.0	X	312.93703	120.63564	351.89067	23.38432	0.3117527	0.27730809	2.33	1.60	3.06	Mc	—	—
247925 2003 WD_{87}	15.8	X	170.51714	41.36932	333.41588	11.79478	0.3573439	0.24577797	2.52	1.62	3.43	Mc	3 13.8	20.6
248083 2004 QU_{24}	16.0	X	262.87438	272.05552	187.85677	23.30394	0.6152301	0.16260015	3.32	1.28	5.37	Jc	7 29.9	22.5
248107 2004 RA_{109}	17.4	X	86.53490	337.09579	346.28525	6.03623	0.2625058	0.30298631	2.20	1.62	2.77	Mc	—	—
248298 2005 LX_{19}	16.2	X	87.32047	27.96223	305.49530	38.25647	0.3683409	0.26634234	2.39	1.51	3.27	Mc	—	—
248590 2006 CS	16.5	X	20.91146	346.39866	172.40999	52.30989	0.6979055	0.19818553	2.91	0.88	4.95	Ja	—	—
248918 2006 VU_{123}	16.5	X	190.60388	287.17436	92.88735	5.63850	0.3967946	0.23410861	2.61	1.57	3.64	Mc	4 7.5	21.7
248920 2006 VS_{133}	16.4	X	153.67151	339.93039	54.71631	7.92911	0.3818609	0.22855376	2.65	1.64	3.66	Mc	4 3.3	21.4
249006 2007 PR_{16}	17.0	X	300.03462	218.50162	126.93310	7.87849	0.2980979	0.27281311	2.35	1.65	3.06	Mc	5 21.9	20.0
249047 2007 TC_{91}	13.9	X	14.79899	5.32843	202.57907	16.07437	0.0924195	0.10829308	4.36	3.96	4.76	Ja	4 28.1	19.4
249091 2007 VV_{93}	16.5	X	24.32394	86.65682	236.96279	23.08855	0.3195198	0.28462907	2.29	1.56	3.02	Mc	11 29.1	19.0
249103 2007 VO_{244}	17.3	X	124.36234	79.84441	237.21221	6.15034	0.2591378	0.30014656	2.21	1.64	2.78	Mc	—	—
249230 2008 GZ_{21}	18.0	X	261.40640	289.67147	217.86003	20.55636	0.1661002	0.41813592	1.77	1.48	2.07	Mc	—	—
249685 1999 YD_{4}	15.6	X	4.73972	41.71671	3.06451	23.32554	0.2980381	0.27120043	2.36	1.66	3.07	Mc	—	—
249687 2000 AY_{42}	15.2	X	243.05833	228.86336	269.93676	22.34648	0.3797944	0.26283637	2.41	1.50	3.33	Mc	9 16.5	19.7
249708 2000 OC_{47}	16.7	X	139.07192	352.31690	337.65824	7.45256	0.2676385	0.30049110	2.21	1.62	2.80	Mc	—	—
249725 2000 SY_{25}	16.8	X	47.76997	187.41584	226.27490	6.22034	0.2689339	0.29649966	2.23	1.63	2.83	Mc	—	—
249772 2000 VF_{62}	15.5	X	321.42505	106.02149	344.67886	25.83216	0.3227912	0.28261931	2.30	1.56	3.04	Mc	—	—
249799 2000 YX_{81}	16.4	X	86.18069	119.98954	269.84609	2.23932	0.2677130	0.29499304	2.23	1.64	2.83	Mc	—	—
249850 2001 QC_{17}	16.3	X	167.61879	245.72276	133.25644	9.57830	0.3826954	0.22439128	2.68	1.66	3.71	Mc	3 25.1	21.5
249957 2001 UG_{11}	15.5	X	161.80554	286.16931	170.90590	28.21956	0.3938736	0.23178319	2.62	1.59	3.66	Mc	6 19.3	21.1
250008 2002 AO_{31}	17.7	X	123.58428	66.28789	346.20655	3.57858	0.2512270	0.31489759	2.14	1.60	2.68	Mc	3 7.2	20.0
250308 2003 QT_{67}	17.5	X	71.63231	157.29707	174.31073	3.92586	0.2760968	0.28689059	2.28	1.65	2.91	Mc	—	—
250315 2003 QZ_{107}	16.9	X	84.69305	213.44446	123.29920	8.08496	0.3205687	0.28783016	2.27	1.54	3.00	Mc	—	—
250418 2003 VV_{2}	16.4	X	336.16991	41.75980	15.50848	25.99771	0.3050211	0.27437013	2.35	1.63	3.06	Mc	—	—
250436 2003 WT_{137}	16.5	X	29.95339	283.97264	84.73903	4.31808	0.2993113	0.27920615	2.32	1.62	3.01	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
250706 2005 RR_6	18.5	X	25.86755	59.95925	27.29507	6.93146	0.7001394	0.19356834	2.96	0.89	5.03	Jc	—	—
250968 2006 GM_{26}	16.8	X	148.51460	301.30174	40.87205	7.22738	0.2647375	0.30450879	2.19	1.61	2.77	Mc	1 5.0	19.8
251365 2007 TQ_{447}	17.8	X	163.16058	164.21059	148.29785	5.33849	0.2454055	0.31059155	2.16	1.63	2.69	Mc	—	—
251398 2007 XB_{24}	17.1	X	127.07875	257.36348	103.72028	1.86780	0.2785943	0.30586443	2.18	1.57	2.79	Mc	1 5.6	19.5
251428 2008 BD_{16}	17.3	X	37.10043	247.12419	146.77459	3.77428	0.2896759	0.28808719	2.27	1.61	2.93	Mc	—	—
251568 2009 EL_{15}	17.3	X	154.19248	308.04906	14.54766	3.05070	0.2940303	0.30522535	2.18	1.54	2.83	Mc	—	—
251705 1996 UJ	17.0	X	17.47601	74.08831	19.49753	21.05334	0.3500660	0.28538332	2.28	1.48	3.08	Mc	—	—
251774 1999 RG_{10}	14.6	X	77.47382	85.11930	334.38045	22.35659	0.3277875	0.28750433	2.27	1.53	3.02	Mc	1 23.9	16.2
251816 1999 TO_{81}	18.2	X	329.45907	82.45419	342.42156	2.31285	0.3005187	0.27207895	2.36	1.65	3.07	Mc	12 31.5	19.2
251964 1999 YL_6	17.1	X	324.22403	112.15057	15.70704	9.06569	0.2998938	0.27357538	2.35	1.65	3.05	Mc	—	—
251966 2000 AJ_1	15.5	X	356.58841	162.85952	276.08628	26.78319	0.3153374	0.27525832	2.34	1.60	3.08	Mc	—	—
252050 2000 SZ_{10}	17.7	X	64.51211	158.82034	198.72067	22.73260	0.2875438	0.29345315	2.24	1.60	2.89	Mc	—	—
252068 2000 SW_{149}	17.0	X	150.00908	115.01178	198.49102	7.17441	0.2665607	0.29923211	2.21	1.62	2.80	Mc	—	—
252073 2000 SR_{236}	17.2	X	172.16557	288.98827	9.48509	4.75705	0.2614058	0.30096908	2.21	1.63	2.78	Mc	—	—
252087 2000 UK_3	16.6	X	125.89248	268.12717	56.65684	9.43556	0.2867654	0.29631429	2.23	1.59	2.87	Mc	—	—
252089 2000 UQ_{29}	16.3	X	342.08563	248.17190	223.83558	22.70425	0.2723189	0.28824511	2.27	1.65	2.89	Mc	—	—
252192 2001 FJ_1	15.9	X	312.27119	264.27491	186.26697	20.62657	0.3660459	0.27761318	2.33	1.48	3.18	Mc	12 19.6	17.2
252244 2001 QZ_{60}	16.2	X	211.86577	331.77873	358.70762	8.67899	0.3878562	0.22738716	2.66	1.63	3.69	Mc	2 21.8	21.5
252881 2002 JF_{63}	17.4	X	93.57170	64.80274	225.43325	4.78861	0.2939784	0.27521774	2.34	1.65	3.03	Mc	12 18.5	21.5
252882 2002 JM_{68}	16.6	X	50.67906	81.89064	50.12451	22.58914	0.2411645	0.30558085	2.18	1.66	2.71	Mc	3 6.8	18.6
252902 2002 JX_{127}	16.8	X	79.43708	220.51229	90.04148	7.49257	0.2884986	0.27621999	2.34	1.66	3.01	Mc	12 31.9	20.8
253069 2002 TG_{110}	17.9	X	248.36154	296.97094	54.90161	10.33772	0.3515875	0.24527842	2.53	1.64	3.42	Mc	4 9.9	22.5
253387 2003 KA_{14}	16.8	X	182.16277	265.54120	64.82217	6.11513	0.2620127	0.30828928	2.17	1.60	2.74	Mc	1 20.9	20.3
253444 2003 RA_6	17.4	X	32.77436	162.55449	245.36956	4.54329	0.3251346	0.28511383	2.29	1.54	3.03	Mc	—	—
253446 2003 RU_{10}	16.2	X	133.12036	94.68448	226.03465	21.49672	0.2592350	0.29396348	2.24	1.66	2.82	Mc	—	—
253449 2003 RX_{18}	17.3	X	100.19663	298.65993	0.99459	2.93172	0.2716683	0.28711779	2.28	1.66	2.89	Mc	—	—
253692 2003 UH_{260}	16.3	X	302.21456	326.21547	94.11517	12.69503	0.3226444	0.26836387	2.38	1.61	3.15	Mc	9 20.8	18.4
253822 2003 YT_{57}	15.6	X	312.35620	280.51033	88.71900	12.66715	0.3094994	0.26645001	2.39	1.65	3.13	Mc	7 14.4	17.8
253898 2004 BY_{102}	15.7	X	357.14344	42.97354	72.74209	24.84613	0.3487398	0.27809363	2.32	1.51	3.14	Mc	—	—
255527 2006 ET_{44}	18.9	X	121.00035	40.19509	169.84275	12.80504	0.1012994	0.54131395	1.49	1.34	1.64	Mc	10 29.1	19.9
255535 2006 HS_{56}	17.3	X	90.29835	225.99341	62.58811	8.78203	0.2890255	0.28363474	2.29	1.63	2.96	Mc	12 14.5	21.1
255550 2006 JB_{26}	17.5	X	93.79725	298.55902	345.79458	3.66316	0.2788356	0.28345210	2.30	1.66	2.94	Mc	12 11.6	21.5
255587 Gardenia	17.6	X	295.18084	247.63584	153.64372	6.92169	0.3815482	0.26116792	2.42	1.50	3.35	Mc	7 17.2	20.4
255591 2006 OB_6	17.0	X	0.81464	30.66462	320.38794	3.28119	0.3284571	0.26876648	2.38	1.60	3.16	Mc	11 24.6	18.6
256155 2006 VO_{44}	15.7	X	233.84496	278.38514	61.53691	17.60187	0.3803655	0.23702214	2.59	1.60	3.57	Mc	3 23.2	21.0
256460 2007 DL	16.0	X	164.27071	285.34216	172.08082	28.34115	0.3752801	0.23190133	2.62	1.64	3.61	Mc	6 20.4	21.6
256686 2007 YZ_{54}	16.6	X	37.85668	341.80187	17.63994	8.67427	0.3396556	0.28536101	2.28	1.51	3.06	Mc	—	—
257471 1994 SA	19.2	X	37.74706	201.98050	52.67392	1.64016	0.0577285	0.43479509	1.73	1.63	1.83	Mc	8 3.4	19.9
257536 1998 EU_3	17.9	X	257.57784	103.63505	48.37910	4.64922	0.2402807	0.36690920	1.93	1.47	2.40	Mc	12 21.0	18.8
257581 1999 FE_8	16.8	X	210.48832	269.91762	180.08659	27.00320	0.3761434	0.24091026	2.56	1.60	3.52	Mc	7 6.2	22.2
257594 1999 RA_{31}	15.6	X	50.53438	74.05072	349.98172	23.11674	0.3064716	0.28172934	2.30	1.60	3.01	Mc	—	—
257610 1999 RM_{215}	16.0	X	63.05440	49.38451	278.94807	8.53311	0.2987141	0.27575628	2.34	1.64	3.04	Mc	—	—
257737 2000 AY_{48}	16.4	X	350.71817	306.03006	95.72563	22.48667	0.3087322	0.27089797	2.37	1.64	3.10	Mc	—	—
257803 2000 EC_{75}	15.8	X	13.84171	89.60430	347.61427	20.41084	0.3314473	0.27282332	2.35	1.57	3.13	Mc	—	—
257851 2000 OA_{13}	17.4	X	175.23798	215.80168	115.50808	3.76946	0.2450541	0.30751581	2.17	1.64	2.71	Mc	1 13.8	20.7
257924 2000 WH_{68}	17.9	X	144.95882	74.95794	239.49545	3.42874	0.2966920	0.29573733	2.23	1.57	2.89	Mc	—	—
257926 2000 WY_{72}	16.8	X	124.71735	95.97490	264.00132	6.67153	0.2580170	0.29900910	2.21	1.64	2.79	Mc	—	—
258123 2001 QK_{293}	16.0	X	199.66806	103.13684	330.55701	28.25266	0.3757327	0.23255427	2.62	1.63	3.60	Mc	6 12.5	21.6
258695 2002 GT_3	18.8	X	210.79029	74.10832	9.17792	1.52495	0.1707923	0.42637414	1.75	1.45	2.05	Mc	7 9.6	20.6
259068 2002 UD_{35}	16.4	X	116.76560	287.74188	204.11913	27.95706	0.3763253	0.23509598	2.60	1.62	3.58	Mc	6 26.4	21.5
259101 2002 WS	16.5	X	129.31371	111.85116	6.29850	29.37893	0.3872060	0.23397464	2.61	1.60	3.62	Mc	6 22.2	21.9
259145 2002 XM_{82}	17.6	X	230.09368	136.56458	292.52478	7.36216	0.1707977	0.35141082	1.99	1.65	2.33	Mc	7 9.9	20.1
259146 2002 XF_{84}	16.4	X	122.31806	102.75100	46.83812	28.36551	0.3906347	0.23215987	2.62	1.60	3.65	Mc	8 3.9	21.8
259353 2003 GT_{41}	17.2	X	219.29941	194.73250	101.90672	9.89948	0.3806475	0.30872896	2.17	1.34	2.99	Mc	1 9.7	21.3
259430 2003 SN_6	17.5	X	13.29411	147.83021	211.86791	7.54061	0.3250727	0.27940043	2.32	1.56	3.07	Mc	—	—
259461 2003 SN_{101}	17.3	X	129.95131	59.67154	260.72769	6.81822	0.2805170	0.29366476	2.24	1.61	2.87	Mc	—	—
259464 2003 SN_{117}	17.1	X	15.71143	268.85836	1.82612	4.11655	0.3003195	0.26868416	2.38	1.66	3.09	Mc	8 12.6	18.3
259485 2003 SS_{215}	17.3	X	115.01134	275.03202	110.70962	7.53148	0.2644049	0.29679670	2.23	1.64	2.81	Mc	1 23.3	19.6
259490 2003 SW_{228}	16.9	X	113.53322	304.34613	23.89294	6.06482	0.2675425	0.28962847	2.26	1.66	2.87	Mc	—	—
259517 2003 TM_{13}	17.0	X	122.90493	276.72295	42.22988	9.25039	0.2709318	0.29019042	2.26	1.65	2.87	Mc	—	—
259555 2003 UL_{147}	17.3	X	348.50793	285.23856	65.95200	5.00821	0.3029349	0.27214220	2.36	1.64	3.07	Mc	10 19.4	18.1
259601 2003 UF_{274}	17.5	X	50.86079	105.17127	269.69645	3.31603	0.2936922	0.28518257	2.29	1.61	2.96	Mc	—	—
259691 2003 YV_2	16.4	X	208.48559	104.94032	48.51134	21.60752	0.3275803	0.25900531	2.44	1.64	3.24	Mc	10 4.7	21.0
259698 2003 YJ_{23}	17.5	X	13.89827	338.74045	135.69219	2.56321	0.3100772	0.28596871	2.28	1.57	2.99	Mc	—	—
259753 2004 AY	16.3	X	15.92423	87.51170	39.20363	23.06504	0.2801937	0.28603942	2.28	1.64	2.92	Mc	—	—
259776 2004 BA_{27}	16.3	X	65.29273	303.34850	130.19219	23.09357	0.2744041	0.28776994	2.27	1.65	2.90	Mc	—	—
259871 2004 DP_1	17.5	X	346.95378	42.86041	22.82659	0.69904	0.3707091	0.27368445	2.35	1.48	3.22	Mc	—	—
260513 2005 ET_{71}	17.1	X	269.18498	191.39168	33.26752	5.26844	0.2623746	0.29343856	2.24	1.65	2.83	Mc	—	—
261068 2005 SA_{201}	16.9	X	195.69457	129.75629	21.42499	7.67072	0.3631652	0.24010923	2.56	1.63	3.49	Mc	9 12.6	21.8
261879 2006 GO_{53}	15.8	X	206.64038	29.18823	281.04543	22.29536	0.3081558	0.30109260	2.20	1.53	2.88	Mc	1 14.3	19.9
261918 2006 KL_{23}	17.7	X	84.76267	44.25850	240.65495	6.32177	0.2873725	0.28050094	2.31	1.65	2.98	Mc	12 5.9	21.5
261934 2006 MK_8	17.0	X	75.68500	275.35957	110.34594	21.05495	0.3126240	0.28729003	2.27	1.56	2.99	Mc	—	—
263152 2007 VZ_{253}	15.5	X	212.22373	218.45932	282.13595	23.11137	0.3104426	0.26519844	2.40	1.65	3.14	Mc	8 30.4	20.2
263903 2009 FQ_{35}	16.9	X	136.95897	284.07601	55.82602	5.40978	0.2799030	0.30343383	2.19	1.58	2.81	Mc	—	—
264218 2010 RU_{52}	17.7	X	126.45965	133.38319	198.00819	2.32256	0.2464889	0.30119310	2.20	1.66	2.75	Mc	—	—
264233 2010 SB_{34}	17.0	X	134.91699	239.63991	102.17444	6.06148	0.3615267	0.30624791	2.18	1.39	2.97	Mc	1 1.6	19.7
264242 2010 TO_{131}	17.6	X	124.27296	270.20065	82.84646	2.67548	0.2504839	0.30204612	2.20	1.65	2.75	Mc	—	—
264275 1996 YF_1	17.1	X	20.31801	75.80120	77.08419	8.96605	0.3750675	0.28643501	2.28	1.42	3.13	Mc	—	—
264285 1998 QM	16.3	X	171.03507	347.36910	318.44114	14.06808	0.2961495	0.27777856	2.33	1.64	3.02	Mc	—	—
264310 1999 RH_{95}	17.2	X	150.70097	168.91125	173.78101	2.33775	0.2941663	0.28900582	2.27	1.60	2.93	Mc	1 12.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
264341 1999 XF_{17}	15.7	X	18.59171	131.67555	268.67325	21.81964	0.2970770	0.27268312	2.36	1.66	3.05	Mc	—	—
264431 2000 SP_{74}	17.5	X	152.35025	311.38842	83.21157	2.76884	0.2379201	0.30657134	2.18	1.66	2.70	Mc	3 15.2	20.7
264791 2002 NG_{9}	17.2	X	169.34816	14.14442	290.68816	10.84862	0.3103457	0.28502740	2.29	1.58	3.00	Mc	—	—
264932 2002 VV_{34}	15.9	X	275.30174	53.07142	65.76870	23.99927	0.3395426	0.25582836	2.46	1.62	3.29	Mc	10 26.2	19.0
265139 2003 UV_{283}	17.4	X	106.83515	61.46639	358.50390	3.58629	0.2589512	0.29636159	2.23	1.65	2.80	Mc	2 28.3	19.6
265176 2003 YV_{8}	16.9	X	92.92546	275.53842	107.56914	5.98226	0.2906098	0.28791223	2.27	1.61	2.93	Mc	—	—
265549 2005 OZ_{14}	17.4	X	239.61153	291.37770	7.36868	5.34486	0.2712792	0.28805317	2.27	1.65	2.89	Mc	1 28.6	21.4
266053 2006 QJ_{27}	16.6	X	163.05038	305.06915	19.59945	6.56872	0.2811812	0.29284020	2.25	1.61	2.88	Mc	—	—
266084 2006 SN_{6}	16.9	X	10.65655	303.09790	72.27698	2.30803	0.3113486	0.26784048	2.38	1.64	3.13	Mc	—	—
266691 2009 PB	16.1	X	67.43714	107.12405	246.88632	6.74453	0.3671193	0.26553342	2.40	1.52	3.28	Mc	—	—
267004 1981 UA	15.9	X	65.20724	21.57921	17.39832	26.98085	0.3300846	0.27731666	2.33	1.56	3.10	Mc	—	—
267046 1998 RU_{17}	17.0	X	216.64651	345.86070	323.12304	6.60475	0.3038360	0.28312665	2.30	1.60	2.99	Mc	1 24.6	21.2
267494 2002 JB_{9}	15.9	X	77.62134	277.92002	70.31714	46.74886	0.7846836	0.21992102	2.72	0.59	4.85	Ja	2 1.3	20.4
267504 2002 KJ_{9}	17.2	X	22.59401	204.16701	80.45165	6.56973	0.3374173	0.31304223	2.15	1.42	2.87	Mc	10 12.6	18.9
267523 2002 OA_{16}	17.1	X	183.86106	179.60100	161.91160	5.58547	0.2986550	0.29003857	2.26	1.59	2.94	Mc	2 7.2	20.9
267671 2002 TZ_{289}	16.6	X	79.69441	26.04577	3.45565	5.93292	0.3010980	0.27368710	2.35	1.64	3.06	Mc	—	—
267821 2003 UB_{35}	17.6	X	219.92482	306.04717	27.84788	1.19914	0.2538335	0.30569880	2.18	1.63	2.74	Mc	2 22.7	21.3
267871 2003 WW_{152}	16.3	X	28.12822	265.35828	192.62518	22.15055	0.2914582	0.28399372	2.29	1.62	2.96	Mc	—	—
267878 2003 YY_{17}	15.8	X	98.56966	110.50353	288.63027	23.00979	0.2924843	0.29028644	2.26	1.60	2.92	Mc	1 19.2	17.7
268251 2005 MF_{24}	17.8	X	54.39636	106.06807	128.70044	4.15757	0.2799483	0.31134541	2.16	1.55	2.76	Mc	9 3.9	20.0
268747 2006 QK_{48}	16.9	X	341.64732	77.97266	348.95665	21.30286	0.3034815	0.26980168	2.37	1.65	3.09	Mc	—	—
268782 2006 TB_{49}	17.7	X	64.78043	85.57300	302.81358	3.34892	0.2843548	0.27955660	2.32	1.66	2.98	Mc	—	—
268812 2006 VS_{27}	17.2	X	288.42057	88.99671	234.41914	3.65524	0.2406404	0.31117407	2.16	1.64	2.68	Mc	4 8.5	20.0
269631 2011 AG_{29}	17.6	X	223.36160	89.92192	116.91122	9.84700	0.1603586	0.35437271	1.98	1.66	2.29	Mc	—	—
269719 1998 QH_{56}	17.7	X	215.88008	266.15408	176.42890	32.22567	0.0308054	0.51035481	1.55	1.50	1.60	Mc	7 30.4	19.6
269745 1998 WU_{8}	16.1	X	193.16582	248.66123	112.93960	8.37581	0.2875692	0.28085545	2.31	1.65	2.97	Mc	3 14.3	20.3
269780 1999 TF_{145}	17.5	X	31.21941	318.35616	353.89982	3.11317	0.2700526	0.31677452	2.13	1.56	2.71	Mc	11 20.1	19.9
269806 1999 VM_{95}	15.3	X	92.14297	81.40590	210.38271	27.67790	0.3698321	0.23196342	2.62	1.65	3.59	Mc	12 16.0	20.5
269881 2000 GF_{15}	16.7	X	206.04363	248.89133	36.57333	5.34738	0.3123897	0.26574875	2.40	1.65	3.14	Mc	—	—
269902 2000 HU_{3}	17.3	X	187.73182	251.37543	66.44738	0.70453	0.3185519	0.26662394	2.39	1.63	3.15	Mc	1 17.4	21.4
269927 2000 OM_{22}	16.2	X	13.75969	20.77475	341.31413	12.74822	0.3821950	0.23902297	2.57	1.59	3.55	Mc	—	—
269993 2000 WJ_{67}	17.6	X	212.66221	250.08278	93.26967	6.84573	0.3337893	0.30911705	2.17	1.44	2.89	Mc	3 3.6	21.6
270037 2001 KR_{57}	17.1	X	236.94046	100.08222	213.36170	7.15922	0.3064708	0.28217657	2.30	1.60	3.01	Mc	2 8.9	21.4
270038 2001 KW_{65}	16.9	X	280.52508	184.30981	120.29544	11.59746	0.2712792	0.28900004	2.27	1.65	2.88	Mc	3 10.7	20.5
270044 2001 ML_{3}	16.8	X	188.79403	158.74589	172.01001	3.76362	0.3057631	0.27364505	2.35	1.63	3.07	Mc	1 31.0	21.0
270073 2001 PR_{49}	18.2	X	258.96328	172.85312	224.15711	13.77245	0.1453509	0.43971835	1.71	1.46	1.96	Mc	6 28.1	19.9
270085 2001 QQ_{98}	17.3	X	242.35522	51.11266	264.76082	2.19501	0.2861830	0.28075303	2.31	1.65	2.97	Mc	2 17.8	21.3
270147 2001 SL_{62}	17.0	X	183.75374	314.76774	12.52632	8.08937	0.2998236	0.27109075	2.36	1.66	3.07	Mc	1 26.7	21.2
270201 2001 TS_{32}	16.3	X	141.94202	72.38297	276.99654	4.65785	0.3528297	0.26616912	2.39	1.55	3.24	Mc	1 22.6	20.1
270303 2001 WB_{2}	16.6	X	272.26714	121.74971	209.78920	21.04975	0.3095480	0.28102800	2.31	1.59	3.02	Mc	3 28.6	20.5
270588 2002 LA_{6}	17.0	X	109.02737	28.55811	292.46881	6.10343	0.3535696	0.27646746	2.33	1.51	3.16	Mc	—	—
270659 2002 PU_{178}	18.0	X	335.68349	234.77499	78.10418	6.15393	0.2476052	0.30858740	2.17	1.63	2.71	Mc	6 13.7	19.1
270893 2002 TO_{247}	17.7	X	345.72928	266.27527	53.24040	6.47234	0.2429240	0.30787119	2.17	1.64	2.70	Mc	8 7.0	18.5
271073 2003 KU_{13}	16.1	X	87.62599	283.00490	34.75546	17.42348	0.3651130	0.23915664	2.57	1.63	3.51	Mc	—	—
271271 2003 UW_{190}	17.7	X	253.57673	155.00973	184.36361	3.95564	0.2428248	0.31209794	2.15	1.63	2.68	Mc	3 27.5	20.8
271366 2003 YE	17.6	X	136.12044	256.90043	203.30802	23.33428	0.3227990	0.30377854	2.19	1.48	2.90	Mc	5 31.1	21.6
271368 2003 YU_{17}	17.3	X	134.60518	269.08393	92.61849	5.83784	0.3043144	0.29488412	2.24	1.56	2.92	Mc	1 22.3	20.2
271518 2004 GT_{28}	17.1	X	357.31200	79.42607	40.42574	21.83407	0.3015369	0.27695356	2.33	1.63	3.03	Mc	—	—
271519 2004 GL_{39}	16.7	X	229.45119	257.11248	39.38646	8.13946	0.3126672	0.27269588	2.36	1.62	3.09	Mc	1 20.7	21.1
271533 2004 HY_{32}	17.0	X	250.89902	249.90896	58.14508	11.93643	0.2844703	0.27964374	2.32	1.66	2.97	Mc	2 21.2	21.3
271774 2004 TO_{12}	18.8	X	349.00725	352.08134	294.18350	1.55695	0.1481023	0.39859435	1.83	1.56	2.10	Mc	6 7.3	18.9
272148 2005 NP_{27}	16.9	X	332.84222	67.80537	230.03700	7.28292	0.2538952	0.30195017	2.20	1.64	2.76	Mc	5 8.6	18.3
272191 2005 QR_{3}	17.3	X	193.61305	290.48405	344.15163	1.83580	0.2905559	0.27547731	2.34	1.66	3.02	Mc	—	—
272254 2005 QJ_{145}	16.8	X	25.87939	150.24740	128.65449	6.52776	0.2804940	0.30788509	2.17	1.56	2.78	Mc	9 26.1	18.5
272287 2005 ST_{9}	16.7	X	120.23192	299.26228	20.53140	14.93551	0.3351352	0.26565852	2.40	1.59	3.20	Mc	—	—
272354 2005 SH_{164}	16.5	X	137.40092	289.93411	53.22233	5.67492	0.3026820	0.27052124	2.37	1.65	3.08	Mc	1 5.6	19.9
272373 2005 SA_{217}	17.3	X	284.06071	239.01921	72.10699	2.86759	0.3014977	0.29255190	2.25	1.57	2.92	Mc	3 16.6	20.9
272475 2005 UU_{80}	16.5	X	298.85106	238.73122	87.28408	6.31463	0.3230499	0.29587725	2.23	1.51	2.95	Mc	4 18.4	19.5
272499 2005 UJ_{157}	16.5	X	251.39103	339.76637	317.26723	5.91923	0.2809180	0.28314160	2.30	1.65	2.94	Mc	2 2.8	20.6
272560 2005 UC_{469}	17.0	X	252.19136	34.48177	283.96289	3.06141	0.2843559	0.28564511	2.28	1.63	2.93	Mc	2 27.2	20.9
273264 2006 LW	18.5	X	245.37876	226.91437	93.19069	3.32932	0.2470105	0.31040964	2.16	1.63	2.69	Mc	2 25.8	22.0
273290 2006 SN_{12}	17.5	X	123.36149	239.85962	119.65266	6.81131	0.2719226	0.28796503	2.27	1.65	2.89	Mc	1 1.7	20.0
273292 2006 SP_{36}	17.0	X	256.73598	203.29244	106.55695	8.30231	0.2565605	0.30825964	2.17	1.61	2.73	Mc	2 23.0	20.6
273314 2006 SS_{355}	18.4	X	86.92267	262.60132	164.73912	5.07382	0.2673954	0.28846550	2.27	1.66	2.88	Mc	2 6.6	20.0
273364 2006 UU_{210}	17.7	X	359.10189	9.41032	292.55027	3.74575	0.2727383	0.32184769	2.11	1.53	2.68	Mc	8 18.0	17.8
273419 2006 WX_{21}	17.8	X	341.54123	297.74727	145.42972	2.64207	0.3027701	0.26802335	2.38	1.66	3.10	Mc	—	—
274069 2007 VU_{188}	17.4	X	142.45876	186.23489	155.88673	3.78546	0.2367998	0.30731952	2.17	1.66	2.69	Mc	—	—
274234 2008 LO_{16}	17.4	X	259.33653	181.38029	128.60852	6.54815	0.2849037	0.28684163	2.28	1.63	2.93	Mc	2 24.6	21.4
274422 2008 SN_{17}	17.6	X	341.20606	305.41286	318.38157	5.32087	0.2710831	0.29336286	2.24	1.64	2.85	Mc	3 25.4	19.7
274627 2008 TE_{82}	16.0	X	74.69753	111.13025	209.02425	5.95865	0.3571703	0.23942942	2.57	1.65	3.49	Mc	—	—
274833 2009 QQ_{1}	17.8	X	296.38232	28.11830	302.19786	7.48848	0.2272818	0.31691824	2.13	1.65	2.61	Mc	4 26.9	20.4
274834 2009 QR_{9}	16.4	X	310.11461	214.62063	156.86064	7.57438	0.3989164	0.23843215	2.58	1.55	3.60	Mc	6 24.8	19.4
274994 2009 TM_{21}	17.3	X	253.35426	183.75551	109.84077	4.43441	0.2889580	0.29667841	2.23	1.58	2.87	Mc	1 29.6	21.1
275310 2010 TR_{36}	17.5	X	192.74443	149.91256	155.70786	8.79293	0.2879242	0.31291160	2.15	1.53	2.77	Mc	—	—
275446 2011 CW_{62}	17.3	X	30.35599	144.45480	102.01747	5.24166	0.2575006	0.30577668	2.18	1.62	2.74	Mc	8 2.4	18.5
275520 1997 MV_{1}	18.1	X	254.16445	113.76906	195.42529	6.49422	0.3247856	0.27612183	2.34	1.58	3.09	Mc	2 16.1	22.3
275533 1998 MR_{17}	15.6	X	72.31933	348.92414	281.39775	15.65877	0.4775548	0.22141910	2.71	1.41	4.00	Mc	11 16.3	20.7
275568 1999 TR_{38}	17.9	X	329.36500	142.45740	188.32802	4.48865	0.2571550	0.31037293	2.16	1.60	2.72	Mc	6 28.5	19.0
275589 1999 VE_{20}	18.5	X	73.76172	344.99514	89.97954	2.11443	0.2362648	0.37553606	1.90	1.45	2.35	Mc	—	—
275618 2000 AU_{242}	13.9	X	357.11906	335.96593	207.95980	9.46709	0.4883850	0.09349235	4.81	2.46	7.16	Jc	1 28.3	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
275736 2001 FJ_{141}	17.5	X	325.29777	249.49829	26.77278	5.59100	0.2741956	0.29497164	2.24	1.62	2.85	Mc	3 20.5	19.8
275740 2001 HS_{3}	18.6	X	143.64461	56.28982	40.28501	16.18308	0.0848675	0.49320789	1.59	1.45	1.72	Mc	4 25.4	19.3
275742 2001 HL_{18}	16.3	X	261.50492	71.57562	53.44152	22.13497	0.3114569	0.27121994	2.36	1.63	3.10	Mc	10 19.7	19.5
275749 2001 OL_{9}	17.1	X	276.94514	249.90459	81.47280	4.68436	0.2812029	0.28704280	2.28	1.64	2.92	Mc	4 8.3	20.5
275778 2001 QD_{7}	17.5	X	278.17201	355.97679	321.94778	5.93507	0.2716202	0.28566642	2.28	1.66	2.90	Mc	3 19.7	21.0
275820 2001 RX_{48}	16.4	X	245.25767	39.64293	41.36889	33.56136	0.4295983	0.23756435	2.58	1.47	3.69	Mc	7 20.8	21.7
275842 2001 SC_{5}	15.9	X	291.25517	267.41513	20.04986	22.24439	0.3113280	0.28074996	2.31	1.59	3.03	Mc	3 3.3	19.9
275847 2001 SM_{61}	15.8	X	210.64954	291.26240	194.67544	23.40808	0.4088995	0.23657263	2.59	1.53	3.65	Mc	8 13.9	21.2
276109 2002 GL_{5}	16.4	X	56.32118	297.54362	8.51289	3.63171	0.2993598	0.32649554	2.09	1.46	2.71	Mc	12 15.1	19.4
276295 2002 TV_{95}	17.3	X	318.63293	97.70559	230.97078	6.79236	0.2548887	0.30552771	2.18	1.63	2.74	Mc	5 30.8	19.0
276297 2002 TZ_{96}	17.5	X	295.18366	257.77164	84.49296	8.27916	0.2787230	0.30314645	2.19	1.58	2.81	Mc	5 11.7	20.2
276331 2002 TL_{255}	16.6	X	35.35185	245.94448	208.70613	21.09018	0.3853422	0.27313119	2.35	1.45	3.26	Mc	—	—
276400 2002 XS_{45}	16.4	X	320.56104	300.98232	44.29270	5.63386	0.2798474	0.30336248	2.19	1.58	2.81	Mc	6 28.0	17.8
276620 2003 UV_{116}	18.1	X	219.94143	182.07118	179.74670	5.02743	0.2462354	0.30976362	2.16	1.63	2.70	Mc	3 28.8	21.5
276741 2004 EM_{66}	16.5	X	327.13701	200.49659	40.68663	12.76989	0.4020043	0.28392270	2.29	1.37	3.21	Mc	1 18.6	20.0
276785 2004 KA_{1}	18.2	X	48.25590	258.08177	85.30460	14.49488	0.1527563	0.42519008	1.75	1.48	2.02	Mc	—	—
276825 2004 PM_{101}	17.1	X	79.37931	323.67518	335.62750	9.33667	0.2815311	0.29957667	2.21	1.59	2.83	Mc	12 21.3	20.9
276888 2004 RM_{323}	17.3	X	86.03089	49.90358	255.34580	5.56442	0.3899580	0.24432224	2.53	1.55	3.52	Mc	12 31.9	22.1
277162 2005 NM_{20}	16.1	X	300.91615	47.29134	320.40976	25.79371	0.3641834	0.23821860	2.58	1.64	3.52	Mc	6 13.6	20.0
277172 2005 OB	17.4	X	33.68269	13.76690	297.83895	6.61264	0.3584301	0.31343518	2.15	1.38	2.92	Mc	12 5.0	20.2
277175 2005 OS_{14}	17.4	X	305.25108	354.08318	330.83308	5.33319	0.2593903	0.29935439	2.21	1.64	2.79	Mc	4 28.7	20.0
277238 2005 RD_{8}	16.8	X	188.36662	231.99572	174.25698	9.18462	0.3849759	0.22344494	2.69	1.65	3.73	Mc	5 6.2	22.1
277307 2005 ST_{164}	16.7	X	131.31490	215.40513	153.90978	6.46564	0.3010867	0.27142048	2.36	1.65	3.07	Mc	1 30.7	20.0
277353 2005 TE_{105}	16.9	X	308.42949	28.58176	298.89890	3.86640	0.2780559	0.29769677	2.22	1.60	2.84	Mc	5 5.1	19.5
277371 2005 UJ_{9}	17.3	X	338.69892	151.78304	171.42808	6.14332	0.2465860	0.30298274	2.20	1.65	2.74	Mc	7 13.8	18.4
277423 2005 UC_{314}	17.2	X	355.84168	275.58216	49.38666	23.17777	0.2630307	0.30651102	2.18	1.61	2.75	Mc	10 11.1	18.8
277529 2005 XL_{66}	16.7	X	304.64091	250.00165	104.00926	9.60085	0.3486981	0.29869079	2.22	1.44	2.99	Mc	5 30.2	19.2
277530 2005 XM_{66}	16.4	X	236.65520	293.13195	89.24489	27.39363	0.2995050	0.28946608	2.26	1.59	2.94	Mc	5 15.7	20.7
277572 2005 YR_{186}	17.9	X	100.62221	254.84653	102.54656	15.55984	0.1677791	0.44507313	1.70	1.41	1.98	Mc	—	—
278454 2007 TN_{84}	17.5	X	144.43560	327.42234	3.26663	6.19631	0.2656007	0.30791829	2.17	1.60	2.75	Mc	—	—
278462 2007 TD_{160}	16.0	X	332.13401	89.00307	225.48444	10.16297	0.3055418	0.27211981	2.36	1.64	3.08	Mc	5 29.1	17.6
278471 2007 TF_{242}	16.1	X	106.82341	81.88707	212.02930	25.42072	0.3963596	0.22965681	2.64	1.59	3.69	Mc	12 26.8	21.6
278576 2008 HS_{37}	17.8	X	329.35680	1.96423	251.27359	3.38331	0.2920438	0.29602192	2.23	1.58	2.88	Mc	2 14.9	20.6
278592 2008 NG_{5}	17.0	X	270.01880	274.81143	60.34327	7.65095	0.2994066	0.28798173	2.27	1.59	2.95	Mc	4 6.1	20.7
278635 2008 RQ_{1}	17.3	X	158.04333	98.68544	238.40476	5.98551	0.3124101	0.26231690	2.42	1.66	3.17	Mc	1 17.1	21.3
279120 2009 ON_{10}	16.7	X	65.65586	352.31074	359.20030	10.04741	0.3601196	0.26860382	2.38	1.52	3.24	Mc	—	—
279577 2011 DY_{22}	16.3	X	176.22950	339.13372	17.28004	6.96072	0.2794556	0.28394443	2.29	1.65	2.93	Mc	2 22.4	20.2
279712 2011 GY_{46}	15.5	X	80.06588	312.80699	23.80354	14.03795	0.3563683	0.23771445	2.58	1.66	3.50	Mc	—	—
279718 1579 T_{-2}	17.8	X	80.29272	149.90452	191.53635	5.03864	0.2762180	0.29282653	2.25	1.63	2.87	Mc	—	—
279768 1999 RH_{104}	19.1	X	76.67626	95.23457	219.77255	3.67976	0.3545240	0.32391144	2.10	1.36	2.84	Mc	—	—
279776 1999 TA_{122}	17.6	X	55.27950	55.24045	270.57875	1.63729	0.2767103	0.32067433	2.11	1.53	2.70	Mc	—	—
279815 2000 JT_{3}	16.1	X	261.51667	137.40530	176.93692	14.71472	0.3232640	0.27385006	2.35	1.59	3.11	Mc	2 27.9	20.3
279823 2000 RD_{8}	15.9	X	346.10859	111.81100	323.58627	23.35706	0.2908789	0.28984023	2.26	1.60	2.92	Mc	—	—
279860 2001 FU_{6}	18.8	X	32.77462	188.96931	66.89891	2.08253	0.2848234	0.30270314	2.20	1.57	2.82	Mc	8 30.9	20.4
279893 2001 QZ_{136}	16.6	X	206.50283	149.76562	221.93030	7.11762	0.3042967	0.27742380	2.33	1.62	3.04	Mc	3 31.1	20.9
279976 2001 TQ_{103}	18.0	X	242.19677	262.63608	91.47673	6.58848	0.3148391	0.28228529	2.30	1.58	3.03	Mc	4 7.6	22.1
280017 2001 WC_{2}	15.0	X	151.49523	249.36022	263.16717	27.34636	0.3951072	0.22475732	2.68	1.62	3.74	Mc	8 4.5	20.7
280042 2002 AB	16.3	X	222.51235	63.21009	64.36942	30.09249	0.3698831	0.23402293	2.61	1.64	3.57	Mc	9 16.9	21.6
280252 2002 XK_{14}	17.0	X	353.12862	203.49761	146.51309	6.43387	0.2643291	0.30842702	2.17	1.60	2.74	Mc	11 7.9	18.1
280366 2003 TE	15.8	X	97.71108	268.77388	67.56184	28.57339	0.3958467	0.23290476	2.62	1.58	3.65	Mc	—	—
280481 2004 HL_{48}	16.1	X	87.16525	264.37666	234.32222	19.91472	0.3212014	0.29422802	2.24	1.52	2.96	Mc	6 3.7	18.9
280488 2004 LL_{31}	16.4	X	318.07397	120.17781	227.18023	6.40069	0.2819396	0.28652859	2.28	1.64	2.92	Mc	6 24.9	18.4
280742 2005 LY_{42}	18.6	X	44.14792	333.33136	339.08806	2.00372	0.3556841	0.31355159	2.15	1.38	2.91	Mc	12 16.4	21.7
280853 2005 UY_{282}	18.0	X	50.72744	182.63665	128.74041	2.17320	0.2424583	0.31309944	2.15	1.63	2.67	Mc	12 8.8	20.9
281396 2008 QN_{48}	16.7	X	214.24529	77.57765	267.47956	3.40161	0.3144212	0.27196774	2.36	1.62	3.10	Mc	3 4.9	21.2
281464 2008 ST_{167}	16.8	X	193.75065	186.41102	184.44414	7.15051	0.3201587	0.27228093	2.36	1.60	3.11	Mc	3 23.7	21.2
282042 1998 SP_{2}	16.4	X	91.27480	197.55557	155.59911	9.83478	0.3781645	0.22729107	2.66	1.65	3.66	Mc	—	—
282044 1998 SF_{107}	17.5	X	281.55620	178.97203	191.06793	7.77525	0.2633251	0.29376856	2.24	1.65	2.83	Mc	6 4.7	20.6
282052 1999 SO_{2}	15.3	X	101.92684	92.92727	335.62800	21.85989	0.3710637	0.24200592	2.55	1.60	3.50	Mc	3 20.9	19.1
282126 2001 MV_{1}	16.4	X	302.92104	65.57232	259.43870	23.30758	0.3047166	0.28888458	2.27	1.58	2.96	Mc	4 15.6	20.0
282128 2001 NT_{12}	17.3	X	27.52484	125.73947	172.34213	8.19781	0.2477273	0.29987126	2.21	1.66	2.76	Mc	10 20.7	19.4
282137 2001 QE_{153}	17.9	X	23.97418	164.76943	152.27451	3.07183	0.2535859	0.30052968	2.21	1.65	2.77	Mc	11 12.4	20.0
282141 2001 QQ_{170}	18.3	X	18.98649	139.14354	171.76321	1.64134	0.3056380	0.29866135	2.22	1.54	2.89	Mc	11 3.5	20.0
282195 2001 UD_{7}	17.3	X	335.52368	116.94559	198.93122	6.40476	0.3195314	0.29006259	2.26	1.54	2.98	Mc	6 5.6	18.4
282226 2002 AU_{17}	17.0	X	279.23310	83.54495	290.65353	7.03208	0.3643129	0.28342593	2.30	1.46	3.13	Mc	5 24.1	20.6
282347 2003 AZ_{22}	15.6	X	320.97091	251.03834	310.29655	21.36169	0.2994139	0.26983458	2.37	1.66	3.08	Mc	—	—
282443 2003 YT_{90}	16.4	X	100.85555	197.70832	190.73996	5.72006	0.3705005	0.23606602	2.59	1.63	3.55	Mc	2 4.5	19.8
282470 2004 FY_{143}	17.8	X	327.12317	79.07043	184.43303	5.73466	0.3409535	0.28539270	2.28	1.51	3.06	Mc	2 20.5	20.7
282511 2004 QL_{20}	16.5	X	263.89543	107.82704	253.59358	21.61405	0.3270076	0.27701166	2.33	1.57	3.09	Mc	4 26.1	20.6
282520 2004 RW_{79}	16.6	X	281.42454	199.27599	107.29043	16.61993	0.3157643	0.27527065	2.34	1.60	3.08	Mc	3 14.0	20.7
282531 2004 RR_{215}	16.9	X	299.91123	44.37396	251.65617	7.22233	0.2929511	0.27750083	2.33	1.65	3.01	Mc	3 9.7	20.4
282639 2005 TC_{46}	17.3	X	282.98230	217.57581	124.42007	6.38529	0.2786245	0.29389347	2.24	1.62	2.86	Mc	4 28.6	20.5
282654 2005 UF_{156}	15.9	X	216.78002	148.52134	262.57017	23.09853	0.2947761	0.28657500	2.28	1.61	2.95	Mc	5 27.4	20.0
282795 2006 PR_{17}	16.6	X	343.63643	131.86945	241.08768	3.13910	0.3051708	0.26551038	2.40	1.67	3.13	Mc	11 8.2	17.5
282873 2007 ET_{65}	17.2	X	28.95652	222.37722	103.95845	3.65627	0.2375735	0.30579811	2.18	1.66	2.70	Mc	11 30.9	19.6
282917 2007 LA_{33}	16.6	X	231.51072	52.46233	284.44994	7.56690	0.3316318	0.25994153	2.43	1.63	3.24	Mc	3 5.2	21.3
283155 2009 BC_{14}	16.3	X	197.18050	127.78491	334.48466	22.77649	0.3109766	0.27507145	2.34	1.61	3.07	Mc	7 22.9	20.8
283319 1992 WR_{4}	17.9	X	145.67618	201.60541	228.74114	5.34303	0.3362292	0.35889224	1.96	1.30	2.62	Mc	4 27.7	20.8
283369 2000 EX_{13}	17.4	X	326.41476	271.25144	340.12037	4.82937	0.3724430	0.27889182	2.32	1.46	3.18	Mc	2 2.6	20.6
283377 2000 PO_{9}	16.4	X	144.89837	84.65726	323.05087	16.32010	0.3096693	0.35328139	1.98	1.37	2.60	Mc	3 18.5	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
283389 2000 QV_{202}	17.0	X	269.07084	283.00277	8.46072	7.23682	0.3480190	0.26891432	2.38	1.55	3.20	Mc	2 9.1	21.3
283393 2000 RO_{49}	16.4	X	143.17303	262.14166	185.08703	20.02521	0.3902676	0.26057959	2.43	1.48	3.38	Mc	5 26.9	21.2
283438 2000 VB_{54}	17.4	X	204.31380	47.44030	319.07520	3.86833	0.3346534	0.26274984	2.41	1.61	3.22	Mc	3 24.6	22.0
283450 2001 AW_{1}	15.3	X	95.54155	198.71871	344.60960	32.84056	0.3663725	0.30511644	2.19	1.38	2.99	Mc	8 26.4	19.0
283461 Leacipaola	17.9	X	314.07571	35.36777	316.51486	6.48833	0.2899858	0.29289512	2.25	1.59	2.90	Mc	6 22.9	19.9
283470 2001 QM_{153}	16.2	X	325.13721	87.38105	323.78360	22.05754	0.3890368	0.29487807	2.24	1.37	3.11	Mc	12 19.1	17.2
283557 2001 VV_{2}	16.3	X	287.26529	261.06559	79.19892	10.60057	0.2913964	0.28416558	2.29	1.62	2.96	Mc	4 30.8	19.6
283626 2002 CK_{210}	16.5	X	256.63783	43.01249	348.88200	3.27103	0.3041317	0.27811085	2.32	1.62	3.03	Mc	6 2.6	20.3
283773 2003 NE_{5}	15.5	X	126.15705	56.55418	278.50003	29.01076	0.3944834	0.23825879	2.58	1.56	3.59	Mc	—	—
283887 2004 BZ_{68}	16.2	X	74.15544	280.17428	182.50537	27.45268	0.3884710	0.23495467	2.60	1.59	3.61	Mc	4 14.1	19.2
283889 2004 BL_{89}	16.6	X	12.91846	287.58553	282.57273	7.17233	0.2649625	0.29166941	2.25	1.66	2.85	Mc	3 11.9	17.9
283948 2004 PU_{85}	17.3	X	279.59461	210.84264	146.11423	5.86547	0.2949616	0.27878462	2.32	1.64	3.01	Mc	5 13.2	20.8
284152 2005 XC_{4}	15.0	X	194.06458	258.73326	308.87723	26.55074	0.3661864	0.23175034	2.62	1.66	3.59	Mc	11 3.8	20.4
284423 2007 AR_{17}	16.4	X	83.21603	60.79044	125.88302	25.08049	0.2721835	0.29288445	2.25	1.63	2.86	Mc	7 30.2	19.3
284456 2007 FM_{28}	17.0	X	33.30117	343.44585	348.14025	8.84461	0.2335382	0.31004167	2.16	1.66	2.67	Mc	12 12.8	19.7
284711 2008 TL_{120}	17.7	X	331.73432	301.18363	66.25083	3.58620	0.2430917	0.30243085	2.20	1.66	2.73	Mc	9 27.4	18.4
284752 2008 VF_{2}	18.2	X	287.55513	67.02256	325.17530	2.72690	0.2624089	0.29344572	2.24	1.65	2.83	Mc	7 15.3	20.4
284763 2008 WL_{68}	18.0	X	359.88531	160.56588	203.04914	1.63233	0.2528177	0.30370384	2.19	1.64	2.75	Mc	12 9.9	19.6
285085 1992 UM_{7}	17.7	X	46.15368	121.94752	202.63120	5.61804	0.2356724	0.30967110	2.16	1.65	2.67	Mc	12 19.5	20.6
285093 1994 HC	17.8	X	205.08228	270.43309	31.44366	5.91008	0.3363435	0.31603687	2.13	1.42	2.85	Mc	1 5.8	21.7
285160 1995 WP_{6}	18.1	X	176.90564	160.24309	141.78490	4.12694	0.2574783	0.31711104	2.13	1.58	2.68	Mc	—	—
285265 1998 QS_{15}	17.7	X	316.11679	111.34457	164.92944	27.97555	0.2704499	0.37932651	1.89	1.38	2.40	Mc	2 20.5	20.1
285290 1998 SS_{140}	17.2	X	113.46101	114.45555	252.48844	3.64160	0.3450031	0.27375960	2.35	1.54	3.16	Mc	1 12.9	19.9
285574 2000 QG_{20}	17.7	X	314.20105	163.24695	169.97328	1.06346	0.2982281	0.27714646	2.33	1.64	3.02	Mc	5 23.1	20.1
285594 2000 QC_{114}	17.2	X	1.11052	210.76715	154.61174	10.52405	0.2995992	0.28534753	2.29	1.60	2.97	Mc	12 19.0	19.4
285602 2000 QG_{163}	16.8	X	248.19875	160.23214	223.33052	7.22993	0.2938399	0.27371154	2.35	1.66	3.04	Mc	5 17.6	20.6
285618 2000 RN_{8}	16.2	X	198.22702	95.36398	341.42997	22.13681	0.3936026	0.26789138	2.38	1.45	3.32	Mc	6 13.3	21.3
285631 2000 RB_{84}	16.7	X	251.85867	171.32817	209.40271	5.90618	0.2935481	0.27359639	2.35	1.66	3.04	Mc	5 17.3	20.5
285732 2000 SU_{345}	17.8	X	157.07081	283.41704	356.08575	7.35158	0.2568896	0.29784670	2.22	1.65	2.79	Mc	—	—
285786 2000 WR_{64}	17.9	X	97.25600	282.64434	44.61127	2.13790	0.2780387	0.29234027	2.25	1.62	2.87	Mc	—	—
285872 2001 NR_{5}	17.5	X	26.00417	200.26962	104.07136	6.21277	0.2629991	0.30024903	2.21	1.63	2.79	Mc	10 31.5	19.7
285902 2001 QS_{99}	16.4	X	159.02668	291.80724	125.09732	23.45560	0.2933257	0.27997267	2.31	1.64	2.99	Mc	5 2.8	20.9
286101 2001 TM_{75}	17.8	X	64.96301	139.35068	210.77197	4.05313	0.2385187	0.30632313	2.18	1.66	2.70	Mc	—	—
286168 2001 UY_{11}	17.1	X	333.65805	117.21783	223.73624	8.11690	0.3074136	0.29054380	2.26	1.56	2.95	Mc	7 20.4	18.2
286273 2001 VA_{77}	16.4	X	326.58708	244.28033	101.36123	22.41296	0.2807330	0.28908365	2.27	1.63	2.90	Mc	7 14.8	17.7
286811 2002 KH_{9}	18.1	X	48.50388	129.36006	155.70907	17.53501	0.1570090	0.42284776	1.76	1.48	2.03	Mc	11 11.1	20.2
286889 2002 PO_{21}	17.6	X	122.51340	244.71025	138.67616	6.73452	0.2739267	0.28439037	2.29	1.66	2.92	Mc	2 2.7	20.5
287396 2002 VU_{85}	16.9	X	231.61884	40.14104	280.47395	4.53317	0.2862934	0.28962189	2.26	1.61	2.91	Mc	2 14.5	21.1
287400 2002 VG_{95}	17.4	X	125.71396	17.09259	336.49576	1.99242	0.3512522	0.27789466	2.33	1.51	3.14	Mc	1 11.2	20.4
287646 2003 KD_{7}	17.8	X	153.50751	154.19429	156.69224	8.06568	0.2669556	0.30162494	2.20	1.61	2.79	Mc	—	—
287662 2003 NW_{6}	17.2	X	0.85747	230.22033	94.62083	8.72486	0.3032549	0.27652551	2.33	1.63	3.04	Mc	10 15.3	18.7
288132 2003 WO_{84}	17.9	X	129.12820	154.06735	287.53854	6.63790	0.1771359	0.35837005	1.96	1.62	2.31	Mc	4 4.2	20.2
288324 2004 BS_{58}	16.9	X	146.64989	252.30639	135.66481	20.86460	0.2699253	0.34975785	2.00	1.46	2.53	Mc	2 27.8	19.6
288638 2004 PJ_{32}	17.4	X	289.47655	351.39706	352.67418	3.97945	0.2908392	0.28184495	2.30	1.63	2.97	Mc	5 3.4	20.7
288768 2004 RD_{95}	17.0	X	250.64608	198.16976	208.37165	7.11508	0.3292277	0.28194303	2.30	1.55	3.06	Mc	6 14.7	21.0
288783 2004 RL_{108}	18.1	X	247.50536	77.85060	319.02001	9.15270	0.2837524	0.27952754	2.32	1.66	2.97	Mc	6 2.2	22.1
288860 2004 RQ_{222}	16.4	X	236.89651	255.64521	184.50862	23.75993	0.2735757	0.28354077	2.29	1.67	2.92	Mc	7 18.4	20.6
289022 2004 TN_{115}	15.7	X	244.07917	263.17398	60.54858	21.21757	0.3396845	0.26705340	2.39	1.58	3.20	Mc	3 12.4	20.5
289034 2004 TJ_{133}	16.6	X	28.69198	144.77529	194.96431	6.28059	0.2739593	0.29393395	2.24	1.63	2.85	Mc	12 21.5	19.4
289282 2004 XB_{167}	16.9	X	251.74048	288.24709	107.98824	8.94009	0.3102532	0.27631457	2.33	1.61	3.06	Mc	6 5.2	20.7
289618 2005 GE_{32}	17.9	X	298.77144	70.38995	175.37939	10.22979	0.1511809	0.35932003	1.96	1.66	2.26	Mc	1 7.2	20.5
290070 2005 QG_{71}	17.4	X	349.58670	334.17179	356.63693	7.11210	0.3312045	0.30695446	2.18	1.46	2.90	Mc	9 22.8	17.2
290074 Donasadock	16.9	X	261.62520	310.70179	153.94114	24.01507	0.2443291	0.31186145	2.15	1.63	2.68	Mc	10 2.4	19.5
290124 2005 QC_{142}	17.1	X	252.13318	256.14235	183.10446	20.23944	0.2738099	0.30167781	2.20	1.60	2.80	Mc	8 1.2	20.7
291005 2005 XR_{92}	16.6	X	49.68854	321.06717	25.28856	6.42808	0.2374288	0.31122853	2.16	1.64	2.67	Mc	—	—
291252 2006 BP_{54}	16.8	X	325.74070	274.06018	334.51039	6.31636	0.3635533	0.25973151	2.43	1.55	3.32	Mc	2 2.8	20.1
291542 2006 EK_{47}	17.0	X	295.61047	26.49889	349.71287	22.62684	0.3070851	0.28819978	2.27	1.57	2.97	Mc	6 28.5	20.2
291877 2006 PB_{18}	17.4	X	153.02198	177.92530	139.96572	4.27894	0.2707386	0.29194732	2.25	1.64	2.86	Mc	—	—
291907 2006 QU_{10}	18.2	X	236.38920	178.95548	168.92980	7.42843	0.2314899	0.31135159	2.16	1.66	2.66	Mc	3 25.3	21.7
291919 2006 QU_{20}	17.1	X	180.18535	201.86416	174.65116	6.44040	0.2638470	0.30161025	2.20	1.62	2.78	Mc	3 17.0	20.5
292227 2006 ST_{59}	16.4	X	181.70744	92.66949	243.99561	7.65158	0.2724137	0.29702411	2.22	1.62	2.83	Mc	1 26.8	20.1
292819 2006 UG_{261}	17.1	X	113.46876	183.29829	141.18967	8.83389	0.3018739	0.28027441	2.31	1.61	3.01	Mc	—	—
293553 2007 HJ_{36}	17.9	X	106.48179	290.41350	34.69527	4.24175	0.2263376	0.31294611	2.15	1.66	2.63	Mc	—	—
293648 2007 PX_{2}	17.6	X	84.84172	229.66274	94.69843	2.52211	0.2682507	0.30108363	2.20	1.61	2.80	Mc	—	—
293940 2007 TX_{12}	17.0	X	114.92713	293.76337	25.34764	7.76639	0.2493725	0.30099128	2.21	1.66	2.76	Mc	—	—
293965 2007 TG_{45}	16.7	X	321.00183	121.91400	200.08165	11.98329	0.3143550	0.27173387	2.36	1.62	3.10	Mc	5 16.6	19.0
294169 2007 TD_{374}	15.4	X	308.61021	281.28485	119.52523	22.41761	0.3125814	0.26822622	2.38	1.64	3.13	Mc	9 2.3	17.5
294349 2007 VC_{92}	17.3	X	122.35855	280.19101	10.17197	7.60144	0.2699249	0.29698401	2.22	1.62	2.83	Mc	—	—
294698 2008 BJ_{2}	17.5	X	67.90572	271.26302	105.91052	6.86491	0.2677010	0.29248321	2.25	1.65	2.85	Mc	—	—
295377 2008 HM_{64}	17.3	X	272.28387	149.48768	139.24061	8.50094	0.3443857	0.28932482	2.26	1.48	3.04	Mc	2 3.6	21.4
295427 2008 KU_{29}	17.1	X	204.08436	213.80504	102.52836	8.06992	0.2966727	0.27785228	2.33	1.64	3.02	Mc	1 25.2	21.3
295650 2008 SD_{305}	17.7	X	91.43125	101.71628	157.40658	5.61327	0.2541343	0.30950563	2.16	1.61	2.71	Mc	11 12.4	21.1
296798 2009 VX_{38}	17.5	X	281.86933	64.66384	265.22889	3.37977	0.2535244	0.30624363	2.18	1.63	2.73	Mc	4 8.5	20.6
296867 2009 XC_{9}	17.0	X	59.42166	138.02786	302.26392	2.70297	0.3059591	0.26931607	2.37	1.65	3.10	Mc	—	—
297125 2010 RV_{166}	17.7	X	161.70947	180.69279	182.26458	1.23127	0.2736094	0.31258962	2.15	1.56	2.74	Mc	2 12.0	21.0
297235 1981 EN_{11}	17.2	X	223.22084	137.29048	337.16620	6.13813	0.3653892	0.28164187	2.31	1.46	3.15	Mc	8 16.9	21.1
297289 1997 WF	17.7	X	183.50434	221.60340	257.54935	4.96434	0.3659418	0.27416506	2.35	1.49	3.21	Mc	7 25.8	22.1
297342 1999 XM_{103}	14.9	X	180.09407	91.92996	287.07030	11.41912	0.3431996	0.24587499	2.52	1.66	3.39	Mc	3 20.9	19.9
297364 2000 DS_{16}	16.9	X	58.19927	109.42861	340.16368	28.89379	0.3804095	0.23424771	2.61	1.61	3.60	Mc	2 20.3	18.5
297380 2000 OS_{49}	17.3	X	240.52189	20.35082	325.85385	7.80211	0.3063279	0.26793656	2.38	1.65	3.11	Mc	3 23.0	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
297530 2001 FH_{31}	18.0	X	341.74303	301.96643	183.71911	28.27378	0.0901722	0.42801355	1.74	1.59	1.90	Mc	—	—
297535 2001 HN_{55}	17.0	X	73.65516	179.95410	77.08663	8.76615	0.2376545	0.30566786	2.18	1.66	2.70	Mc	10 24.2	20.1
297539 2001 OY_{51}	18.0	X	18.79033	295.29392	61.44987	2.08201	0.2642594	0.30345754	2.19	1.61	2.77	Mc	—	—
297612 2001 SQ_{328}	18.0	X	356.43592	317.33350	355.16708	5.96439	0.2613287	0.29493069	2.24	1.65	2.82	Mc	8 28.9	18.6
297695 2001 VK_{34}	17.3	X	339.41384	299.79504	74.86619	2.73563	0.3166842	0.29478250	2.24	1.53	2.94	Mc	11 12.9	17.5
297837 2002 BX	16.8	X	264.65209	85.71469	314.31454	22.02073	0.3244160	0.28240023	2.30	1.55	3.05	Mc	6 22.1	20.7
297839 2002 BE_{17}	15.9	X	188.43045	76.22620	157.49200	28.78817	0.3665914	0.23504702	2.60	1.65	3.55	Mc	12 13.1	21.3
297847 2002 CH_{7}	16.8	X	249.12676	63.62005	11.45483	23.12395	0.2886281	0.28494696	2.29	1.63	2.95	Mc	8 4.9	20.8
298615 2004 AE_{8}	17.1	X	133.40985	281.07947	129.26978	13.94224	0.3473448	0.24340346	2.54	1.66	3.42	Mc	4 6.9	21.6
298680 2004 DJ_{25}	18.1	X	112.91704	251.99545	184.63216	6.73910	0.2688135	0.34952992	2.00	1.46	2.53	Mc	3 25.8	20.1
298737 2004 GQ_{35}	17.2	X	84.24367	342.11829	263.50476	5.83416	0.2618681	0.30321481	2.19	1.62	2.77	Mc	10 15.7	20.5
298747 2004 GU_{76}	17.1	X	56.83289	208.43599	100.39879	8.03559	0.3024849	0.30618857	2.18	1.52	2.84	Mc	12 16.9	20.3
298767 2004 NS_{3}	17.2	X	27.92049	273.63000	23.08093	8.33309	0.2762412	0.29436362	2.24	1.62	2.86	Mc	10 20.9	19.3
298791 2004 PZ_{101}	16.7	X	302.84157	13.75919	313.47979	3.45258	0.2980227	0.27951162	2.32	1.63	3.01	Mc	4 25.2	19.8
298824 2004 RB_{80}	17.4	X	33.38363	292.39185	336.06550	1.57534	0.3737766	0.29091589	2.26	1.41	3.10	Mc	10 5.0	19.5
299198 2005 GQ_{172}	16.3	X	182.97436	47.77643	37.28390	12.54298	0.3413710	0.25970412	2.43	1.60	3.26	Mc	6 13.6	21.1
299346 2005 SG_{177}	17.9	X	86.95383	310.76101	336.16093	4.08609	0.2384975	0.31755983	2.13	1.62	2.64	Mc	12 11.2	21.3
300281 2007 ME_{5}	16.9	X	261.73197	160.77512	200.77300	11.53014	0.3137530	0.27500954	2.34	1.61	3.08	Mc	4 29.9	20.7
301583 2010 BR_{2}	15.7	X	52.90407	276.16397	294.51375	21.33456	0.3021923	0.27910636	2.32	1.62	3.02	Mc	7 25.3	17.9
301846 1993 OV_{1}	17.0	X	301.54087	324.46906	310.43382	11.25511	0.4369714	0.27548513	2.34	1.32	3.36	Mc	2 1.9	21.1
301894 1998 RX_{28}	17.4	X	133.94796	183.76880	156.74694	9.12362	0.3678981	0.23147752	2.63	1.66	3.59	Mc	1 11.7	21.7
301907 1998 XB_{9}	16.1	X	27.98971	108.32005	318.89835	13.54500	0.4783211	0.22162847	2.70	1.41	4.00	Mc	—	—
301910 1998 YM_{8}	15.3	X	347.12500	94.46953	333.20425	29.00504	0.4047083	0.21590370	2.75	1.64	3.87	Mc	—	—
301917 1999 SK_{2}	16.4	X	1.00913	234.39455	355.40333	4.65425	0.4533784	0.26301538	2.41	1.32	3.51	Mc	2 15.8	17.6
301925 1999 XZ_{69}	15.7	X	340.04406	111.20434	81.58323	8.97106	0.4396257	0.23400142	2.61	1.46	3.75	Mc	—	—
301936 2000 AH_{97}	15.2	X	30.16249	103.93612	326.20188	27.58764	0.3896866	0.22914970	2.64	1.61	3.68	Mc	—	—
301962 2000 ET_{26}	15.5	X	74.21684	74.47227	5.80001	26.43281	0.4376679	0.23405772	2.61	1.47	3.75	Mc	3 23.0	18.1
301964 2000 EJ_{37}	13.4	X	13.69736	115.73974	178.37759	10.06932	0.7060593	0.09904610	4.63	1.36	7.89	Jc	11 9.1	17.7
301965 2000 EN_{172}	16.3	X	32.04956	85.60601	58.31333	28.01770	0.3732277	0.23196104	2.62	1.64	3.60	Mc	3 10.1	18.6
301968 2000 FX_{2}	14.6	X	48.89438	80.47115	19.88725	24.73604	0.4112756	0.23338365	2.61	1.54	3.69	Mc	2 26.4	16.5
301982 2000 KT_{4}	16.5	X	2.39334	67.95277	234.81217	21.10547	0.2754026	0.28487694	2.29	1.66	2.92	Mc	8 12.6	18.5
301988 2000 NN_{10}	15.5	X	313.38160	118.47159	249.35042	21.13252	0.2909691	0.28097423	2.31	1.64	2.98	Mc	7 11.2	17.9
301991 2000 PM_{1}	17.3	X	273.41258	277.72851	68.36436	6.52460	0.3468890	0.27255680	2.36	1.54	3.17	Mc	4 18.6	21.1
302024 2000 SM_{134}	17.3	X	359.95472	38.62134	257.86829	7.24325	0.2838646	0.27995153	2.31	1.66	2.97	Mc	8 1.0	18.2
302098 2001 FG_{31}	16.1	X	223.64145	296.37292	202.62644	23.06311	0.4859639	0.17501698	3.17	1.63	4.70	Mc	8 30.8	22.5
302100 2001 FA_{97}	16.2	X	143.11427	205.50922	32.69969	11.02706	0.4127285	0.21586945	2.75	1.62	3.89	Mc	11 15.6	21.7
302111 2001 MM_{3}	14.4	X	146.55780	88.56415	224.86465	29.13134	0.4069989	0.21599969	2.75	1.63	3.87	Mc	—	—
302119 2001 PF_{43}	17.8	X	354.96878	226.37072	98.57748	7.47542	0.2552753	0.29651849	2.23	1.66	2.80	Mc	9 23.1	19.0
302129 2001 QY_{193}	17.0	X	24.25317	85.69334	244.70706	6.00911	0.2599381	0.29977174	2.21	1.64	2.79	Mc	12 1.9	19.4
302132 2001 QD_{243}	18.5	X	358.09165	152.83915	170.07580	7.01839	0.3198022	0.29593063	2.23	1.52	2.94	Mc	10 7.3	19.0
302141 2001 SD_{5}	18.2	X	43.22636	268.04951	8.98078	1.37522	0.3825035	0.29822223	2.22	1.37	3.07	Mc	10 31.9	21.1
302162 2001 SL_{333}	17.5	X	43.54808	258.79124	57.46772	4.73683	0.2500826	0.30076181	2.21	1.65	2.76	Mc	12 5.6	20.2
302193 2001 UA	17.5	X	24.79313	282.50533	50.73169	7.18350	0.2677561	0.30018193	2.21	1.62	2.80	Mc	12 7.3	19.9
302366 2002 CJ_{10}	15.6	X	277.92661	250.84762	124.56324	22.51428	0.4065405	0.28093288	2.31	1.37	3.25	Mc	5 27.9	19.7
302530 2002 LC_{58}	15.1	X	70.11274	112.26787	228.30772	29.15559	0.4241742	0.21674654	2.74	1.58	3.91	Mc	—	—
302531 2002 LL_{58}	15.7	X	86.93726	295.95335	43.12897	5.31697	0.4076501	0.22266434	2.70	1.60	3.79	Mc	—	—
302578 2002 PC_{110}	16.5	X	78.30273	69.03810	330.45063	13.06685	0.4393346	0.22488511	2.68	1.50	3.85	Mc	2 4.0	19.1
302785 2002 XR_{40}	15.3	X	70.84441	95.95243	319.71883	29.34255	0.4020086	0.21717757	2.74	1.64	3.84	Mc	2 6.2	17.5
302874 2003 HM_{37}	16.9	X	311.98011	77.82434	227.68968	21.57645	0.2989521	0.27080333	2.37	1.66	3.07	Mc	4 5.8	20.3
302898 2003 QU_{10}	18.8	X	164.69899	13.34962	349.57570	1.26521	0.4120800	0.24745774	2.51	1.48	3.55	Mc	3 1.8	23.5
302992 2003 WH_{26}	16.0	X	160.28167	256.35198	71.86280	28.40984	0.4140060	0.23941859	2.57	1.51	3.63	Mc	1 21.0	21.1
303079 2004 AB	16.0	X	326.61099	2.18230	196.60770	15.40783	0.4326053	0.22329344	2.69	1.53	3.85	Mc	—	—
303142 2004 DU_{24}	15.9	X	122.91869	24.05041	45.69004	3.89918	0.4733716	0.23909124	2.57	1.35	3.79	Mc	4 27.8	20.4
303226 2004 NY_{30}	14.6	X	247.57384	287.93487	114.21909	20.53156	0.4563272	0.16340571	3.31	1.80	4.83	Ja	6 4.4	20.9
303244 2004 QQ_{4}	17.0	X	348.03474	29.12094	294.72246	6.44689	0.3019281	0.28732514	2.27	1.59	2.96	Mc	8 15.4	17.3
303946 2005 XR_{28}	16.6	X	303.96645	353.68173	104.35549	25.72620	0.2608990	0.30584140	2.18	1.61	2.75	Mc	12 25.8	17.3
303959 2005 YW_{195}	16.9	X	232.55719	144.33744	345.02850	27.88995	0.2981992	0.29513930	2.23	1.57	2.90	Mc	9 14.4	20.3
304093 2006 HM_{29}	16.6	X	101.19507	107.35257	176.53279	9.10768	0.4162243	0.21802572	2.73	1.60	3.87	Mc	12 16.3	22.0
304292 2006 SK_{77}	15.2	X	137.51215	10.54555	260.95314	19.90116	0.4601997	0.21835752	2.73	1.47	3.99	Mc	12 20.7	20.9
304782 2007 MX_{3}	16.6	X	233.46837	75.89882	248.27522	8.37972	0.3177560	0.25878520	2.44	1.66	3.21	Mc	2 19.8	21.3
304908 2007 RM_{281}	16.8	X	155.50680	280.61913	102.27752	12.43532	0.3512457	0.24476750	2.53	1.64	3.42	Mc	3 21.7	21.5
304936 2007 SG_{2}	17.2	X	116.60551	268.76923	179.21748	32.18881	0.4144726	0.24539328	2.53	1.48	3.57	Mc	5 12.7	22.0
306173 2010 NK_{83}	13.6	X	252.86527	341.94003	103.17701	11.32499	0.5823598	0.06873921	5.90	2.46	9.34	Jc	7 13.7	22.6
306288 2011 SM_{28}	16.8	X	25.82510	4.91198	321.65102	8.67370	0.2962144	0.30347117	2.19	1.54	2.84	Mc	12 4.2	19.4
306375 1980 RG_{1}	16.5	X	168.28495	113.43951	236.23292	4.51540	0.4666346	0.22809547	2.65	1.41	3.89	Mc	2 18.6	21.8
306376 1983 TA	16.7	X	197.21917	58.00950	5.90450	29.08438	0.4715879	0.22485428	2.68	1.42	3.94	Mc	5 17.7	22.7
306381 1993 RR_{2}	15.8	X	158.30531	161.92074	154.86148	11.36558	0.4864928	0.22669013	2.66	1.37	3.96	Mc	1 10.7	21.0
306399 1996 AX_{1}	15.9	X	231.69795	149.45338	268.13560	10.70002	0.4345146	0.25602757	2.46	1.39	3.52	Mc	6 8.8	20.6
306413 1997 GF_{22}	17.3	X	290.15651	254.34287	31.63442	3.21476	0.3683119	0.32164371	2.11	1.33	2.89	Mc	2 9.3	20.8
306415 1997 YL_{11}	17.4	X	136.27833	94.18858	34.87591	5.45494	0.4250562	0.22678518	2.66	1.53	3.80	Mc	7 13.1	22.6
306416 1998 HS_{7}	16.0	X	66.10173	97.09577	59.47669	14.55119	0.4517946	0.21775721	2.74	1.50	3.97	Mc	6 23.9	19.8
306418 1998 KK_{56}	16.3	X	23.79425	128.99949	104.13797	26.13019	0.4961821	0.17205865	3.20	1.61	4.79	Ja	8 6.7	19.1
306421 1998 QB_{1}	18.2	X	346.58963	297.80361	30.65482	2.06914	0.4015250	0.30033427	2.21	1.32	3.10	Mc	9 5.1	16.8
306436 1998 SB_{163}	17.0	X	195.97869	293.27952	18.90654	7.14651	0.4195135	0.23652501	2.59	1.50	3.68	Mc	1 23.9	22.2
306441 1998 UV_{16}	17.0	X	144.07686	253.10888	117.11134	13.40967	0.3688402	0.23305776	2.62	1.65	3.58	Mc	2 26.5	21.7
306443 1998 WL	16.3	X	160.37472	306.72417	68.51343	6.58574	0.4432721	0.23559146	2.60	1.45	3.75	Mc	3 18.7	21.4
306453 1999 BE_{8}	16.3	X	211.32663	321.94632	147.29118	9.89953	0.4660532	0.24263911	2.55	1.36	3.73	Mc	7 27.1	21.4
306459 1999 GS_{3}	16.1	X	104.69051	107.50411	44.63694	28.12113	0.4245172	0.23326372	2.61	1.50	3.72	Mc	7 25.9	21.3
306461 1999 LY_{5}	14.9	X	89.70643	329.78203	206.25560	29.24471	0.4629690	0.18397300	3.06	1.64	4.48	Mc	8 2.9	20.7
306464 1999 RO_{44}	15.0	X	80.33493	84.64090	178.82050	27.10410	0.4025414	0.23210113	2.62	1.57	3.68	Mc	11 13.7	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
306477 1999 SY_2	16.0	X	145.74935	120.08952	228.97968	23.19369	0.2994549	0.28901582	2.27	1.59	2.94	Mc	1 10.8	19.8
306478 1999 SP_3	14.8	X	23.80710	100.48579	295.17987	26.73715	0.4040869	0.22868587	2.65	1.58	3.72	Mc	—	—
306479 1999 SE_{16}	16.7	X	134.19162	184.50921	215.26621	14.93636	0.3503534	0.24631155	2.52	1.64	3.40	Mc	3 16.9	21.2
306490 1999 TR_{232}	16.6	X	214.38259	220.49659	88.52938	7.80602	0.3912688	0.24948438	2.50	1.52	3.48	Mc	1 27.6	21.5
306514 1999 VX_{178}	15.9	X	8.27318	119.10497	202.11770	23.17878	0.4955487	0.17920185	3.12	1.57	4.66	Mc	11 6.4	18.4
306517 1999 WY	14.5	X	56.29352	95.55396	285.56967	26.19450	0.4237241	0.23069563	2.63	1.52	3.75	Mc	—	—
306522 1999 XZ_{14}	15.8	X	79.58428	273.78633	89.29206	23.73150	0.3271437	0.27881538	2.32	1.56	3.08	Mc	—	—
306540 1999 YB_6	14.7	X	28.62563	84.79385	321.13300	26.75416	0.3988060	0.23210432	2.62	1.58	3.67	Mc	—	—
306587 2000 FL_{24}	15.8	X	201.06722	191.68217	93.89325	11.99742	0.4171570	0.21685158	2.74	1.60	3.89	Mc	—	—
306590 2000 GL_3	16.1	X	41.65898	255.88287	202.19853	24.47094	0.4707762	0.23150088	2.63	1.39	3.86	Mc	—	—
306600 2000 HO_{27}	15.8	X	273.90403	4.33441	234.46314	10.48243	0.4626623	0.22321880	2.69	1.45	3.94	Mc	—	—
306605 2000 LV_{25}	14.9	X	184.40640	109.49865	239.55429	30.38991	0.4349458	0.21449105	2.76	1.56	3.97	Mc	2 15.7	21.0
306606 2000 LU_{36}	14.5	X	266.02452	219.42449	140.63707	9.61365	0.4072628	0.22600447	2.67	1.58	3.76	Mc	4 28.8	19.3
306607 2000 OD_2	17.1	X	301.11099	183.90839	162.98474	7.00631	0.3109454	0.27726225	2.33	1.60	3.05	Mc	5 22.4	20.0
306613 2000 QX_1	14.6	X	187.11792	84.71913	297.62426	27.91491	0.4093772	0.21486368	2.76	1.63	3.89	Mc	3 21.4	20.6
306614 2000 QL_2	16.0	X	237.17565	118.39458	294.62171	22.00211	0.3108901	0.27204299	2.36	1.63	3.09	Mc	6 15.4	20.2
306642 2000 SP_{42}	16.2	X	336.44584	26.20168	53.67346	10.21613	0.4599311	0.23680878	2.59	1.40	3.78	Mc	—	—
306659 2000 ST_{216}	16.1	X	103.26555	316.56760	142.42063	7.64847	0.4210341	0.25621506	2.46	1.42	3.49	Mc	5 15.8	20.1
306664 2000 SP_{266}	17.7	X	306.60480	185.29572	143.94308	4.44232	0.3126763	0.27453527	2.34	1.61	3.08	Mc	5 4.7	20.6
306665 2000 SO_{277}	16.8	X	20.47356	5.71839	279.77169	6.38930	0.4105319	0.28115654	2.31	1.36	3.26	Mc	10 11.1	18.8
306678 2000 UK	15.7	X	135.70009	94.53634	347.87238	28.71998	0.4097302	0.21114989	2.79	1.65	3.94	Mc	5 3.2	21.4
306679 2000 UO_{11}	16.6	X	252.47984	276.81518	60.86033	13.31166	0.3108057	0.26881208	2.38	1.64	3.12	Mc	3 30.5	20.9
306695 2000 VL_1	15.4	X	251.58525	54.62115	93.14443	30.62079	0.4537342	0.22760555	2.66	1.45	3.86	Mc	10 23.7	20.3
306703 2000 WT	16.4	X	272.81742	92.89661	327.02775	20.90773	0.2953141	0.27479466	2.34	1.65	3.04	Mc	8 2.5	19.6
306715 2000 WY_{50}	14.5	X	111.88008	293.35828	240.19519	27.75513	0.4305477	0.21386076	2.77	1.58	3.96	Mc	8 7.8	20.2
306722 2000 WF_{107}	15.9	X	38.75277	276.69423	108.55819	27.35929	0.3964521	0.24250622	2.55	1.54	3.56	Mc	—	—
306749 2000 YS_2	17.8	X	264.57155	73.99220	44.14054	5.94954	0.2527133	0.32490794	2.10	1.57	2.63	Mc	10 24.7	19.3
306769 2001 BX_2	16.3	X	49.12309	336.73276	29.72618	10.75296	0.4052287	0.28617370	2.28	1.36	3.20	Mc	—	—
306772 2001 CY_1	15.6	X	53.25568	48.14917	0.94925	5.06927	0.3526896	0.24118917	2.56	1.65	3.46	Mc	—	—
306778 2001 DF_{92}	16.1	X	245.11000	87.35210	350.77410	22.22361	0.4164839	0.22036572	2.71	1.58	3.85	Mc	7 20.3	21.3
306787 2001 HS_8	15.8	X	64.05517	12.11853	216.43006	22.96558	0.4518892	0.20475772	2.85	1.56	4.14	Mc	9 16.4	20.6
306788 2001 HV_{24}	17.6	X	169.47187	236.79259	60.94424	3.68273	0.2540099	0.32320151	2.10	1.57	2.64	Mc	—	—
306790 2001 KB_1	14.7	X	208.12071	88.10930	245.70996	26.41050	0.4088268	0.23037579	2.64	1.56	3.71	Mc	2 10.1	20.5
306795 2001 OQ_{50}	15.3	X	199.24091	59.08137	316.07733	16.45103	0.4039169	0.22740641	2.66	1.58	3.73	Mc	3 27.1	20.8
306798 2001 OW_{94}	16.4	X	220.89911	9.23112	16.90789	9.10966	0.4102099	0.22928976	2.64	1.56	3.73	Mc	4 26.7	21.6
306805 2001 QO_{65}	15.1	X	209.55734	248.80218	166.61654	28.13725	0.4185693	0.23220542	2.62	1.52	3.72	Mc	5 29.8	20.8
306811 2001 QV_{147}	15.2	X	179.32601	181.37513	125.58385	15.02522	0.4118130	0.21914767	2.72	1.60	3.85	Mc	1 8.8	20.5
306819 2001 QM_{237}	17.7	X	10.62103	33.01554	357.81915	4.43992	0.2918585	0.30271819	2.20	1.56	2.84	Mc	—	—
306826 2001 RZ_{17}	16.0	X	248.25157	93.98215	333.14245	27.93538	0.4115036	0.24080565	2.56	1.51	3.61	Mc	7 10.3	21.0
306839 2001 SG_{35}	17.8	X	352.27743	264.08681	123.40268	2.24546	0.2848092	0.29940314	2.21	1.58	2.84	Mc	—	—
306857 2001 SR_{169}	15.8	X	276.32965	265.77985	12.38614	26.97841	0.4228142	0.23350036	2.61	1.51	3.72	Mc	2 7.5	21.1
306865 2001 SS_{263}	15.6	X	181.07031	83.33784	341.92676	15.45002	0.4251667	0.22389467	2.69	1.54	3.83	Mc	5 17.8	21.2
306866 2001 SN_{268}	15.6	X	75.05984	129.53666	321.39937	8.39966	0.4219549	0.22007585	2.72	1.57	3.86	Mc	3 31.9	18.9
306869 2001 SH_{288}	17.7	X	68.81500	224.97686	91.35621	8.10235	0.3027354	0.30514475	2.19	1.52	2.85	Mc	—	—
306876 2001 TE	16.0	X	93.93706	322.57607	25.33203	9.23899	0.4428602	0.26304628	2.41	1.34	3.48	Mc	—	—
306886 2001 TC_{63}	17.9	X	28.57294	233.56315	114.59706	1.61421	0.2480848	0.30054251	2.21	1.66	2.75	Mc	12 30.3	20.6
306895 2001 TT_{127}	16.4	X	161.15416	247.29093	243.21182	19.08021	0.2875685	0.28152714	2.31	1.64	2.97	Mc	7 20.0	20.9
306917 2001 UW_4	18.8	X	242.26371	159.78400	333.71010	3.38920	0.0660361	0.49749494	1.58	1.47	1.68	Mc	—	—
306918 2001 UQ_{11}	17.1	X	233.85763	234.93434	55.83723	3.87188	0.5078723	0.22589285	2.67	1.31	4.03	Mc	1 17.6	22.7
306919 2001 UU_{17}	16.0	X	171.94010	284.19289	183.79182	27.81104	0.4010332	0.23294876	2.62	1.57	3.67	Mc	7 4.8	21.7
307005 2001 XP_1	18.0	X	334.74667	246.34933	268.05121	39.20823	0.7525275	0.20042062	2.89	0.72	5.07	Jc	—	—
307006 2001 XQ_1	14.9	X	261.53291	34.09412	10.22963	33.54638	0.4044488	0.23318955	2.61	1.56	3.67	Mc	6 5.7	20.1
307009 2001 XC_{40}	15.6	X	354.46228	40.60233	316.56983	10.10674	0.3467626	0.24448393	2.53	1.65	3.41	Mc	11 8.7	17.4
307064 2002 AR_5	17.3	X	351.96610	173.57080	120.12449	23.20465	0.1444512	0.47941854	1.62	1.38	1.85	Mc	7 6.6	16.9
307067 2002 AJ_{10}	15.1	X	358.40011	67.70660	327.65297	27.81379	0.3833714	0.24350660	2.54	1.57	3.51	Mc	—	—
307068 2002 AX_{14}	18.1	X	358.34355	256.75045	258.38784	21.61210	0.0748900	0.51225470	1.55	1.43	1.66	Mc	—	—
307143 2002 CQ_{219}	18.2	X	283.15073	201.22247	348.43519	7.36338	0.3479293	0.24513811	2.53	1.65	3.41	Mc	—	—
307162 2002 DM_9	14.2	X	336.65773	272.70109	359.16195	28.69677	0.4206556	0.21279086	2.78	1.61	3.95	Mc	3 18.9	16.9
307190 2002 EK_{130}	15.9	X	128.94285	327.38355	292.30819	10.80145	0.4302449	0.22876031	2.65	1.51	3.79	Mc	12 4.3	21.3
307197 2002 FZ_1	17.6	X	81.40047	262.50464	19.13826	22.97589	0.2216052	0.43203657	1.73	1.35	2.12	Mc	12 9.7	20.5
307198 2002 FJ_3	16.0	X	248.14155	265.59664	189.79045	26.80171	0.4360031	0.23383600	2.61	1.47	3.75	Mc	7 30.6	21.2
307227 2002 GE_{123}	17.6	X	90.86982	289.42855	185.84620	4.57640	0.2721019	0.31273932	2.15	1.56	2.73	Mc	4 27.1	19.6
307240 2002 JU_{67}	16.1	X	197.99812	304.60724	236.39691	23.14243	0.3646341	0.28170073	2.30	1.46	3.15	Mc	10 16.1	20.5
307263 2002 NT_{26}	16.1	X	330.34937	116.30377	144.76691	13.89173	0.4305941	0.19972487	2.90	1.65	4.15	Mc	2 24.2	19.8
307286 2002 PA_{96}	15.2	X	20.00241	69.47623	318.94310	23.04916	0.4887347	0.16185160	3.33	1.70	4.96	Jc	—	—
307298 2002 QV_6	16.7	X	287.42319	281.98067	333.61624	26.65466	0.4136534	0.24388817	2.54	1.49	3.59	Mc	1 14.5	21.7
307378 2002 SF_{52}	17.1	X	177.85943	215.46231	81.08312	7.64167	0.3889224	0.23156416	2.63	1.60	3.65	Mc	—	—
307419 2002 TN_{237}	14.9	X	310.37015	267.10499	232.97695	27.83870	0.4074087	0.21226617	2.78	1.65	3.92	Mc	—	—
307457 2002 VE_{66}	15.7	X	169.16378	89.62673	56.18904	26.84762	0.3854966	0.24358369	2.54	1.56	3.52	Mc	9 2.1	21.2
307505 2002 YX_{11}	16.4	X	86.71366	90.88057	108.63877	22.69025	0.4282186	0.28327359	2.30	1.31	3.28	Mc	9 12.9	20.7
307523 2003 AV_{72}	15.4	X	112.51482	101.38440	46.80957	28.01228	0.4002110	0.22930986	2.64	1.59	3.70	Mc	7 23.4	20.7
307525 2003 AB_{83}	15.2	X	284.43908	291.82051	86.07233	30.91398	0.4813575	0.24488769	2.53	1.31	3.75	Mc	5 29.0	19.5
307536 2003 CV_3	15.3	X	197.09250	269.30329	143.30397	25.96392	0.4021674	0.23492377	2.60	1.56	3.65	Mc	5 23.1	20.9
307543 2003 EO_4	15.9	X	157.19895	96.46124	17.79181	27.49694	0.4045938	0.23354549	2.61	1.55	3.67	Mc	7 9.9	21.5
307544 2003 EJ_{16}	16.0	X	12.62358	83.86709	168.78756	21.61612	0.4143647	0.27420101	2.35	1.37	3.32	Mc	7 9.9	17.1
307556 2003 EQ_{43}	16.4	X	172.00751	275.62826	180.75615	27.21202	0.4089651	0.23631425	2.59	1.53	3.65	Mc	6 22.7	22.1
307566 2003 FK_{22}	17.1	X	169.43031	159.34522	69.47747	7.04615	0.2921145	0.29938653	2.21	1.57	2.86	Mc	11 30.9	21.0
307586 2003 HJ_{49}	17.4	X	0.27720	63.26024	205.09387	12.81975	0.3658524	0.27400093	2.35	1.49	3.21	Mc	5 26.3	17.8
307615 2003 QR_{82}	16.8	X	253.27773	295.66822	115.58945	3.43382	0.3159302	0.26752440	2.39	1.63	3.14	Mc	6 24.4	20.8
307660 2003 SB_{220}	15.8	X	165.90568	315.71890	87.04436	5.22940	0.5512217	0.19302917	2.97	1.33	4.60	Mc	4 24.9	22.1

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
307877 2004 BG_{69}	15.8	X	316.51283	276.89444	164.53011	9.95420	0.4152236	0.21289808	2.78	1.62	3.93	Mc	10 31.7	17.3
307971 2004 LG_{6}	15.3	X	313.02404	94.11025	100.28489	14.51367	0.4707451	0.21881504	2.73	1.44	4.01	Mc	—	—
307984 2004 QV_{13}	16.0	X	323.19707	86.41551	292.91228	23.45006	0.3066148	0.28525166	2.29	1.58	2.99	Mc	8 19.3	17.7
307986 2004 QT_{26}	16.1	X	79.70958	6.90289	331.06918	13.31123	0.3538039	0.24357399	2.54	1.64	3.44	Mc	—	—
308004 2004 RT_{110}	16.0	X	311.81807	119.68789	314.78017	22.13914	0.3062658	0.28772123	2.27	1.58	2.97	Mc	11 4.9	17.9
308014 2004 RH_{197}	17.6	X	84.28844	91.99201	197.77873	5.88229	0.2495777	0.29967213	2.21	1.66	2.76	Mc	12 11.6	21.2
308020 2004 RM_{222}	15.2	X	151.18910	54.10246	16.01642	13.99941	0.4428794	0.20074771	2.89	1.61	4.17	Mc	5 9.9	20.9
308084 2004 UF_{1}	17.2	X	259.20717	259.40445	216.00364	22.48360	0.3317056	0.28533601	2.29	1.53	3.04	Mc	9 17.6	20.7
308108 2004 XB	16.9	X	290.97591	61.53794	292.45657	11.77303	0.0985164	0.39433321	1.84	1.66	2.02	Mc	6 19.3	18.3
308117 2004 XD_{61}	15.7	X	108.50802	0.53117	348.86428	17.96734	0.3528193	0.24686142	2.52	1.63	3.40	Mc	—	—
308128 2004 XK_{133}	16.6	X	324.23117	315.26818	41.79758	8.76626	0.2743637	0.28446277	2.29	1.66	2.92	Mc	8 5.5	18.1
308195 2005 EW_{12}	17.3	X	44.59542	73.27113	17.09890	3.44398	0.4533833	0.24458854	2.53	1.38	3.68	Mc	—	—
308198 2005 EK_{29}	19.0	X	6.28417	336.84261	171.76766	15.04561	0.1800184	0.48093404	1.61	1.32	1.90	Mc	—	—
308273 2005 GL_{156}	16.1	X	12.70618	213.25877	113.26996	1.55382	0.4287277	0.25597643	2.46	1.40	3.51	Mc	11 28.9	18.4
308306 Dainere	16.2	X	303.73416	250.19933	84.96424	23.08429	0.5549425	0.17707260	3.14	1.40	4.88	Ja	4 23.1	21.5
308604 2005 VX_{112}	19.8	X	47.84521	225.72034	228.98293	5.23237	0.3270105	0.32805911	2.08	1.40	2.76	Mc	—	—
308607 2005 WY_{3}	13.5	X	278.23943	309.08825	190.11752	29.39996	0.7337415	0.05645923	6.73	1.79	11.67	Jc	9 7.4	23.0
308698 2006 FZ_{9}	16.2	X	172.67942	275.40220	203.44610	29.09875	0.4008825	0.21974480	2.72	1.63	3.81	Mc	7 14.2	22.1
308771 2006 OK_{13}	17.8	X	204.41269	296.63850	19.35447	1.40746	0.2741349	0.30069910	2.21	1.60	2.81	Mc	1 21.5	21.5
309166 2007 BA_{8}	16.3	X	195.92300	57.65478	35.71419	27.54542	0.4200010	0.23665172	2.59	1.50	3.68	Mc	7 1.1	21.9
309215 2007 LN_{18}	15.9	X	310.86679	38.65404	272.78876	23.89782	0.3133718	0.27328656	2.35	1.61	3.09	Mc	4 1.6	19.7
309273 2007 RD_{128}	18.0	X	161.21448	278.55128	166.88386	3.45949	0.3801828	0.25425163	2.47	1.53	3.41	Mc	6 3.4	22.8
309319 2007 SO	15.5	X	353.77265	128.48025	305.00974	7.78261	0.4448792	0.21865038	2.73	1.51	3.94	Mc	—	—
310024 2009 TA	15.7	X	187.90727	37.06734	354.23750	19.48391	0.4154092	0.21331403	2.77	1.62	3.93	Mc	4 10.9	21.4
310379 1994 NZ	16.6	X	21.35778	293.21513	289.02578	10.37630	0.4943745	0.21868011	2.73	1.38	4.08	Mc	7 10.3	17.2
310395 1998 TM_{15}	17.8	X	190.99403	299.16780	287.66539	2.19393	0.1064991	0.39512415	1.84	1.64	2.04	Mc	—	—
310404 1999 RL_{1}	17.5	X	237.17679	24.96428	342.23634	5.49349	0.3372931	0.25579738	2.46	1.63	3.29	Mc	4 15.2	22.2
310429 1999 XP_{19}	15.7	X	203.89709	48.91743	35.63289	5.66939	0.4281221	0.25587218	2.46	1.41	3.51	Mc	6 25.9	20.6
310434 2000 AP_{146}	15.2	X	41.59971	307.61970	281.59110	23.50875	0.4173534	0.24236534	2.55	1.48	3.61	Mc	8 12.9	18.3
310435 2000 AV_{156}	16.5	X	262.60948	279.91635	92.78316	7.49156	0.3289927	0.25736083	2.45	1.64	3.25	Mc	5 15.0	20.7
310451 2000 PT_{27}	15.7	X	6.62489	80.09850	276.02025	21.05515	0.2888290	0.28439307	2.29	1.63	2.95	Mc	12 13.1	17.8
310458 2000 QA_{180}	15.9	X	334.71982	95.84933	354.63994	23.31139	0.3040353	0.28986029	2.26	1.57	2.95	Mc	—	—
310464 2000 SF	15.1	X	291.96977	57.63959	340.00888	22.39099	0.3149588	0.27608312	2.34	1.60	3.07	Mc	7 28.9	18.0
310522 2000 YS_{66}	16.4	X	253.56078	281.86464	111.60790	8.05740	0.3498297	0.26809980	2.38	1.55	3.22	Mc	5 31.3	20.5
310535 2001 BJ_{43}	17.5	X	182.95584	155.09371	284.18368	9.75112	0.2328372	0.35770595	1.97	1.51	2.42	Mc	6 4.7	20.7
310574 2001 SH_{262}	17.0	X	12.19913	298.54832	147.63198	3.62751	0.5137003	0.20796726	2.82	1.37	4.27	Mc	—	—
310582 2001 TP_{235}	17.6	X	80.24914	256.93457	84.23084	7.50797	0.2582077	0.30706325	2.18	1.61	2.74	Mc	—	—
310616 2002 AX	17.6	X	352.58983	317.69222	74.88375	8.38764	0.3869705	0.29653965	2.23	1.37	3.09	Mc	—	—
310728 2002 PD_{48}	15.9	X	121.21028	257.46044	169.47145	28.25765	0.3971402	0.23319882	2.61	1.58	3.65	Mc	4 20.8	20.7
310770 2002 RO_{251}	15.5	X	148.20564	276.47222	79.21235	5.15689	0.2212658	0.12738240	3.91	3.05	4.78	Ja	2 12.3	21.8
310777 2002 ST_{19}	16.4	X	126.75711	277.67637	165.09151	27.60998	0.4322331	0.23349910	2.61	1.48	3.74	Mc	5 17.4	21.7
310879 2003 ON_{12}	16.3	X	255.19498	87.35994	287.65009	20.20130	0.3079474	0.26469317	2.40	1.66	3.14	Mc	5 6.9	20.7
310991 2003 WH_{84}	16.9	X	204.11511	143.35729	268.41896	7.23990	0.3372303	0.25588220	2.46	1.63	3.29	Mc	5 18.4	21.5
311116 2004 NZ_{23}	17.6	X	72.46292	78.43760	234.48793	3.81376	0.2439657	0.30223011	2.20	1.66	2.74	Mc	12 29.4	21.0
311143 2004 RL_{226}	17.1	X	286.75728	264.61254	180.35619	23.71337	0.3397950	0.28828259	2.27	1.50	3.04	Mc	9 17.6	19.1
311151 2004 SK_{26}	16.2	X	22.60964	279.76876	65.43548	23.39727	0.2810680	0.29442895	2.24	1.61	2.87	Mc	12 19.7	18.9
311154 2004 TF_{3}	17.5	X	140.90319	7.47449	310.43158	8.43598	0.3141209	0.31155099	2.16	1.48	2.83	Mc	—	—
311221 2005 AS_{28}	16.9	X	77.12138	144.18737	82.10961	5.97164	0.3693371	0.26332443	2.41	1.52	3.30	Mc	9 27.8	20.8
311999 2007 NS_{2}	18.1	X	357.36726	177.09030	282.47043	18.62111	0.0540450	0.52401072	1.52	1.44	1.61	MT	—	—
312004 2007 PW_{27}	15.9	X	308.00019	294.31089	125.18517	23.05860	0.2935192	0.28608073	2.28	1.61	2.95	Mc	10 22.5	18.0
312958 1997 QP_{2}	17.2	X	189.50565	52.26377	329.43794	28.40380	0.0834286	0.43974721	1.71	1.57	1.86	Mc	2 26.2	18.6
312974 1999 CU_{8}	17.2	X	222.28441	102.34331	109.71731	29.33574	0.2847324	0.38572542	1.87	1.34	2.40	Mc	—	—
312978 1999 JG_{29}	14.9	X	155.65962	327.11259	221.35963	19.71445	0.4105499	0.15133686	3.49	2.06	4.92	Ja	9 22.2	21.7
312979 1999 KT_{4}	17.7	X	254.11884	127.67317	111.46979	2.29091	0.3669897	0.29926606	2.21	1.40	3.03	Mc	—	—
313041 2000 QN_{70}	16.7	X	266.71483	251.51816	156.73055	22.99574	0.3049188	0.27524308	2.34	1.63	3.05	Mc	7 5.2	20.5
313056 2000 SZ_{28}	17.8	X	305.03231	165.15568	214.70103	9.21539	0.3171418	0.27791718	2.33	1.59	3.06	Mc	7 12.4	20.3
313085 2000 TB_{45}	17.8	X	331.87817	308.13952	66.06243	5.34134	0.2795535	0.28175549	2.30	1.66	2.95	Mc	10 5.9	18.5
313087 2000 UD_{12}	17.4	X	8.39105	243.09981	117.54345	10.02769	0.2797042	0.28534284	2.29	1.65	2.92	Mc	12 21.0	19.7
313088 2000 UQ_{21}	17.7	X	340.00233	177.17288	177.26776	4.50332	0.2905042	0.28012054	2.31	1.64	2.99	Mc	9 21.1	18.3
313181 2001 OD_{74}	17.8	X	110.75550	20.86046	321.22665	7.73428	0.2856404	0.31249588	2.15	1.54	2.76	Mc	—	—
313309 2002 EH_{8}	17.5	X	219.62882	96.77758	152.78465	5.23989	0.3643585	0.29046657	2.26	1.44	3.08	Mc	—	—
313329 2002 FH_{5}	16.9	X	260.16907	110.55162	107.98633	8.30969	0.3340879	0.29401463	2.24	1.49	2.99	Mc	—	—
313441 2002 RJ_{105}	16.9	X	161.58929	348.40814	6.76166	7.81671	0.3807449	0.23198522	2.62	1.62	3.62	Mc	2 21.0	21.8
313477 2002 TA_{180}	16.1	X	47.07325	326.07391	12.70790	17.50034	0.4043813	0.21352128	2.77	1.65	3.89	Mc	—	—
313591 2003 MB_{7}	16.3	X	309.45629	32.12343	312.09153	11.88559	0.4228142	0.26810498	2.38	1.37	3.39	Mc	5 5.3	19.8
313593 2003 NQ_{4}	16.7	X	73.21088	41.33719	260.51588	11.06703	0.2767335	0.28481545	2.29	1.65	2.92	Mc	12 16.7	20.3
313594 2003 NB_{7}	17.4	X	1.54271	272.49607	49.59250	4.36776	0.3025369	0.27683092	2.33	1.63	3.04	Mc	10 7.7	18.4
313607 2003 QL_{30}	16.9	X	237.94170	318.49623	70.58350	7.15578	0.4041424	0.26164412	2.42	1.44	3.40	Mc	5 11.6	21.5
313621 2003 QP_{109}	17.1	X	26.30021	201.29153	117.10501	6.92871	0.2847655	0.27811200	2.32	1.66	2.99	Mc	11 19.9	19.7
313760 2003 WG_{98}	16.1	X	77.48663	217.24523	288.43447	25.72796	0.4077747	0.23823352	2.58	1.53	3.63	Mc	6 19.1	19.9
314004 2004 TG_{366}	17.3	X	108.70160	255.38616	85.96809	5.62283	0.2380424	0.30681272	2.18	1.66	2.70	Mc	—	—
314005 2004 UK	16.4	X	305.18855	273.44629	170.25068	21.07390	0.3727442	0.28653101	2.28	1.43	3.13	Mc	11 6.6	17.6
314716 2006 SX_{52}	16.4	X	176.52267	274.91699	60.75120	9.39693	0.4493525	0.22994098	2.64	1.45	3.82	Mc	2 11.7	21.8
315186 Schade	17.2	X	30.76585	18.43948	332.54588	6.58284	0.2989445	0.29230903	2.25	1.58	2.92	Mc	—	—
315187 2007 OS_{1}	17.6	X	328.29844	56.83746	295.76726	9.34529	0.3010696	0.27883933	2.32	1.62	3.02	Mc	7 28.7	18.5
315194 2007 PO_{37}	17.4	X	49.70012	57.30886	309.78078	6.37949	0.2628841	0.29819400	2.22	1.64	2.80	Mc	—	—
315233 2007 RG_{247}	17.4	X	116.94543	199.37612	144.62267	6.85903	0.2429003	0.30634429	2.18	1.65	2.71	Mc	—	—
315239 2007 RB_{280}	17.3	X	355.78227	80.33231	284.73897	10.54816	0.2943047	0.28641672	2.28	1.61	2.95	Mc	12 5.3	18.9
315440 2007 WX_{1}	17.1	X	323.32715	270.42549	125.40297	7.30006	0.2926551	0.27882139	2.32	1.64	3.00	Mc	10 17.8	18.0
316650 1987 UL	15.9	X	45.66919	301.48085	70.32118	8.06974	0.4097410	0.23715556	2.58	1.53	3.64	Mc	—	—

ELEMENTS AND OPPOSITION DATES OF SOME UNUSUAL MINOR PLANETS

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
316651 1990 *OL*	15.8	X	5.46868	156.84695	150.31328	15.00127	0.4537323	0.22354133	2.69	1.47	3.91	Mc	10 15.6	17.7
316687 1996 BX_{12}	17.2	X	118.83895	42.90245	335.66065	25.15609	0.2392323	0.31253955	2.15	1.64	2.66	Mc	1 19.4	19.9
316720 1998 BE_{7}	14.6	X	125.17172	303.15368	99.52226	15.00010	0.5157782	0.18338142	3.07	1.49	4.65	Mc	4 10.5	20.6
316781 1999 TJ_{150}	17.8	X	296.33330	143.38029	191.77682	3.95000	0.2428693	0.30614429	2.18	1.65	2.71	Mc	5 6.9	20.2
316829 1999 *YS*	14.6	X	54.53812	249.47728	261.02265	27.40053	0.3997718	0.23755062	2.58	1.55	3.61	Mc	5 18.5	17.2
316855 2000 JK_{72}	15.3	X	330.60553	278.39811	65.37582	26.69826	0.4184256	0.23785791	2.58	1.50	3.66	Mc	6 16.9	17.3
316857 2000 NH_{10}	17.1	X	32.30922	127.59986	242.15355	2.12204	0.3971429	0.28990672	2.26	1.36	3.16	Mc	—	—
316866 2000 QD_{124}	17.2	X	132.04944	3.59517	320.32203	3.15661	0.2533166	0.29898156	2.21	1.65	2.78	Mc	—	—
316870 2000 QE_{174}	17.4	X	26.89219	65.84440	308.91630	5.19167	0.2744517	0.29027237	2.26	1.64	2.88	Mc	—	—
316876 2000 RF_{43}	15.5	X	346.34391	190.98000	206.36129	9.90535	0.4483643	0.18785801	3.02	1.67	4.37	Mc	12 16.5	17.1
316883 2000 SA_{24}	15.9	X	22.12985	265.14325	6.69988	27.45746	0.3988296	0.23328631	2.61	1.57	3.66	Mc	9 21.7	18.1
316922 2000 WB_{165}	14.9	X	176.02961	43.56822	101.16289	15.39506	0.4510264	0.21859153	2.73	1.50	3.96	Mc	8 24.2	20.6
316934 2001 AA_{52}	16.7	X	317.95828	62.37515	349.76084	9.12977	0.2865822	0.27833141	2.32	1.66	2.99	Mc	10 20.4	17.8
317096 2001 TD_{36}	17.5	X	51.08186	20.87564	8.84155	7.21498	0.2670590	0.30577035	2.18	1.60	2.76	Mc	—	—
317189 2001 YG_{2}	17.5	X	36.82158	288.75495	133.16901	7.19030	0.3088522	0.30772658	2.17	1.50	2.84	Mc	—	—
317207 2002 CH_{10}	17.1	X	24.26625	35.63438	31.71025	7.79181	0.2711707	0.30161827	2.20	1.60	2.80	Mc	—	—
317350 2002 LV_{38}	17.0	X	137.70513	98.08939	198.47804	4.68872	0.2895878	0.27981063	2.32	1.64	2.99	Mc	—	—
317379 2002 OW_{22}	15.9	X	29.49198	161.84788	189.19119	26.75734	0.3615398	0.26778904	2.38	1.52	3.25	Mc	—	—
317404 2002 PT_{132}	17.8	X	150.73064	128.62510	135.75959	2.04619	0.3022301	0.27834387	2.32	1.62	3.03	Mc	12 27.2	22.0
317638 2003 EQ_{11}	16.8	X	8.45723	62.08370	178.67259	10.58259	0.3988011	0.22129662	2.71	1.63	3.79	Mc	5 17.8	17.7
317683 2003 *MS*	17.3	X	181.11761	359.63840	306.76226	4.59711	0.3048602	0.30183394	2.20	1.53	2.87	Mc	—	—
317699 2003 PP_{9}	17.7	X	194.73331	132.20939	166.13834	15.73010	0.1877205	0.41428572	1.78	1.45	2.12	Mc	—	—
317766 2003 SD_{96}	17.6	X	216.62059	303.56916	347.38035	2.03048	0.2450625	0.30369062	2.19	1.65	2.73	Mc	—	—
317958 2003 *XG*	15.2	X	90.94319	55.13561	307.23435	7.11364	0.5126395	0.17586183	3.16	1.54	4.77	Ja	1 25.1	19.7
317984 2004 BC_{11}	15.4	X	72.48580	106.71848	300.16784	25.83607	0.4934319	0.23005920	2.64	1.34	3.94	Mc	2 4.2	17.7
318572 2005 GL_{141}	18.2	X	125.19703	83.27723	176.66385	2.39867	0.3167991	0.26843299	2.38	1.63	3.13	Mc	12 4.9	22.5
318580 2005 GL_{162}	17.3	X	105.16577	93.86296	172.99850	5.90828	0.3622939	0.26465190	2.40	1.53	3.27	Mc	12 1.9	21.9
318690 2005 QV_{62}	18.4	X	257.05083	15.65848	29.94558	1.25022	0.2181438	0.36300026	1.95	1.52	2.37	Mc	7 1.1	20.7
318875 2005 TS_{100}	13.7	X	31.61995	52.85725	23.46641	8.52924	0.1664904	0.07481396	5.58	4.65	6.51	Jc	1 2.6	20.2
318902 2005 UR_{5}	17.2	X	155.11336	278.05688	167.52567	18.56867	0.2002176	0.34555710	2.01	1.61	2.41	Mc	5 21.7	20.5
319421 2006 HR_{77}	17.7	X	299.03236	129.06651	166.60007	0.93130	0.2349148	0.32515228	2.09	1.60	2.59	Mc	3 13.7	20.4
319458 2006 LY_{4}	17.9	X	223.56702	109.33652	181.55001	5.03353	0.2802663	0.30291997	2.20	1.58	2.81	Mc	1 4.1	21.9
319477 2006 PC_{27}	17.0	X	234.37431	174.13209	120.64205	9.19868	0.2508352	0.30356362	2.19	1.64	2.74	Mc	1 16.8	20.5
319495 2006 QW_{59}	17.5	X	191.36221	83.45101	229.40389	4.24801	0.2716258	0.29789688	2.22	1.62	2.82	Mc	1 7.2	21.1
319591 2006 SU_{162}	18.1	X	221.20080	93.50551	188.08654	5.87508	0.3517310	0.29699047	2.22	1.44	3.01	Mc	—	—
320276 2007 RL_{95}	18.2	X	266.05398	281.70383	174.39240	2.41412	0.2983675	0.27440072	2.35	1.65	3.05	Mc	9 8.4	21.1
321025 2008 ME_{1}	15.7	X	357.97131	290.63143	330.03189	27.52693	0.4874666	0.22287154	2.69	1.38	4.01	Mc	3 18.1	17.8
321356 2009 *MF*	16.9	X	166.83404	26.39427	206.03790	8.54465	0.3512769	0.28008273	2.31	1.50	3.13	Mc	11 30.0	21.3
321950 2010 TJ_{170}	17.4	X	176.60714	47.93168	267.08046	4.45223	0.2466350	0.30834958	2.17	1.63	2.71	Mc	—	—
322574 Werckmeister	16.5	X	189.37797	216.76544	147.29046	6.66233	0.3748119	0.24131924	2.56	1.60	3.51	Mc	3 17.5	21.4
322629 1997 TQ_{17}	18.1	X	270.61502	296.31882	343.09189	6.33104	0.3004108	0.31423872	2.14	1.50	2.79	Mc	1 23.5	21.8
322651 1999 JP_{5}	17.3	X	221.65152	241.58199	58.25590	9.37064	0.2875486	0.29903400	2.21	1.58	2.85	Mc	1 15.8	21.4
322713 2000 KD_{41}	16.7	X	122.60926	155.70629	150.62780	5.45922	0.5839428	0.15764008	3.39	1.41	5.38	Jc	—	—
322762 2001 *FM*	16.2	X	244.97964	58.27136	33.57674	22.15809	0.3217511	0.26779446	2.38	1.62	3.15	Mc	8 20.1	20.5
323048 2002 RP_{143}	18.2	X	186.04060	113.18578	180.58663	5.14619	0.2889413	0.28410314	2.29	1.63	2.95	Mc	—	—
323089 2002 VT_{20}	17.6	X	128.52354	102.93982	317.71573	6.17694	0.3822798	0.23134594	2.63	1.62	3.63	Mc	4 10.9	22.2
323095 2002 VP_{82}	16.7	X	147.67716	303.60377	87.43003	8.03081	0.3726342	0.23101372	2.63	1.65	3.61	Mc	3 26.6	21.6
323137 2003 BM_{80}	15.3	X	347.41600	217.61845	9.29530	5.81132	0.1888178	0.11281103	4.24	3.44	5.04	Jc	4 2.7	20.3
323182 2003 MQ_{5}	16.2	X	18.16703	242.95158	129.04414	22.02867	0.2765372	0.28322832	2.30	1.66	2.93	Mc	—	—
323296 2003 UV_{5}	17.6	X	279.08806	353.56821	64.17874	6.99572	0.3093611	0.26734789	2.39	1.65	3.12	Mc	8 2.9	20.7
323308 2003 UH_{81}	17.5	X	290.87960	234.08529	169.01473	5.64916	0.3347056	0.26848436	2.38	1.58	3.18	Mc	7 21.7	20.4
323471 2004 LY_{1}	16.1	X	264.88239	182.34144	141.13135	13.28501	0.4246875	0.22064069	2.71	1.56	3.86	Mc	3 14.8	21.2
323498 2004 QE_{1}	17.2	X	17.92423	104.92504	171.44654	27.81674	0.3861359	0.23178002	2.62	1.61	3.64	Mc	9 9.1	19.0
323686 2005 GW_{20}	16.8	X	287.43894	264.70699	215.22606	20.35688	0.2949708	0.28567776	2.28	1.61	2.96	Mc	11 26.8	18.4
324322 2006 HB_{62}	17.6	X	191.20819	178.04035	165.99275	4.87043	0.2286759	0.31337851	2.15	1.66	2.64	Mc	2 9.8	21.0
324331 2006 OE_{12}	17.7	X	145.35181	223.93031	100.42738	1.49667	0.2684719	0.29065103	2.26	1.65	2.86	Mc	—	—
324366 2006 QC_{134}	16.9	X	56.21676	74.66614	279.83704	2.04923	0.3511352	0.27461609	2.34	1.52	3.17	Mc	—	—
324387 2006 RR_{96}	16.5	X	101.50135	112.44953	9.08238	6.46865	0.4084701	0.22933193	2.64	1.56	3.72	Mc	6 7.8	20.9
324524 2006 VZ_{108}	17.4	X	111.56062	59.78214	268.40399	4.30943	0.2917554	0.27976538	2.32	1.64	2.99	Mc	—	—
324582 2006 *XK*	15.8	X	143.39071	60.78812	325.02171	28.07318	0.4434362	0.22501390	2.68	1.49	3.86	Mc	3 8.1	21.1
325152 2008 EC_{169}	15.8	X	265.30293	194.37023	176.78331	18.83987	0.3593313	0.24234061	2.55	1.63	3.46	Mc	5 14.5	20.4
325620 2009 SV_{242}	16.7	X	117.26128	73.42737	244.11434	7.75007	0.2975753	0.27064589	2.37	1.66	3.07	Mc	—	—
325766 2010 JX_{140}	17.0	X	38.65538	122.52734	241.77033	7.85678	0.2702879	0.28585915	2.28	1.67	2.90	Mc	—	—
326113 2011 UG_{108}	17.3	X	23.23890	217.14596	93.03391	7.67540	0.2714979	0.29639257	2.23	1.62	2.83	Mc	11 5.5	19.5
326268 1993 TT_{2}	18.0	X	242.86958	56.89080	242.01726	3.00226	0.2523374	0.30253055	2.20	1.64	2.75	Mc	1 27.4	21.6
326306 1998 XY_{4}	16.9	X	119.03998	60.72894	58.07488	30.22421	0.3743795	0.23432132	2.61	1.63	3.58	Mc	6 10.6	21.7
326317 1999 VN_{23}	16.1	X	238.92960	309.61313	58.18017	6.79813	0.4892959	0.21087844	2.80	1.43	4.16	Mc	4 16.5	21.7
326318 1999 VK_{85}	15.8	X	285.71064	267.08402	76.20737	15.22757	0.4454716	0.21615527	2.75	1.52	3.97	Mc	4 22.9	20.6
326321 1999 VT_{180}	16.6	X	147.02029	290.98625	59.07349	23.48253	0.2954481	0.28823997	2.27	1.60	2.94	Mc	1 22.9	20.4
326333 2000 KX_{4}	16.2	X	20.68357	246.21817	73.41310	11.27669	0.4523711	0.24039763	2.56	1.40	3.72	Mc	12 2.1	19.0
326350 2000 SS_{217}	17.6	X	228.57880	264.17701	70.90225	7.00716	0.2960840	0.31195327	2.15	1.52	2.79	Mc	3 4.6	21.5
326364 2000 VC_{2}	16.0	X	290.03935	63.64900	59.98531	21.39649	0.3302750	0.28153905	2.31	1.54	3.07	Mc	11 29.6	17.2
326397 2001 RO_{91}	16.6	X	90.65275	286.68611	154.45479	7.06925	0.4144537	0.21710718	2.74	1.61	3.88	Mc	4 13.0	20.5
326488 2002 GU_{2}	17.4	X	177.48205	80.26753	196.43133	21.19502	0.3030157	0.28630208	2.28	1.59	2.97	Mc	—	—
326498 2002 JE_{10}	16.9	X	199.78416	235.37695	65.91226	10.99496	0.2824011	0.29351260	2.24	1.61	2.88	Mc	1 1.4	20.8
326646 2002 *TE*	17.5	X	136.55105	193.31108	145.34033	13.28617	0.3060320	0.28048488	2.31	1.60	3.02	Mc	—	—
326717 2003 EA_{17}	16.2	X	160.82807	275.05963	182.77064	25.23638	0.3732662	0.23347709	2.61	1.64	3.59	Mc	6 17.7	21.7
326738 2003 *PA*	17.9	X	221.88544	249.63964	83.29138	4.33544	0.2752903	0.31024707	2.16	1.57	2.76	Mc	2 23.9	21.7
326740 2003 QZ_{18}	18.7	X	210.23820	163.53845	169.22363	2.15231	0.2381219	0.30789782	2.17	1.65	2.69	Mc	2 12.6	22.3
326741 2003 QW_{26}	16.6	X	330.23062	68.85102	349.92288	19.78538	0.3115084	0.27634270	2.33	1.61	3.06	Mc	12 31.1	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
326769 2003 SE_{192}	16.8	X	273.39032	6.27020	293.75946	4.39922	0.3073229	0.31204032	2.15	1.49	2.81	Mc	2 16.8	20.3
326887 2003 WJ_{7}	17.7	X	201.08751	48.45377	282.59262	5.41256	0.2988497	0.30273858	2.20	1.54	2.85	Mc	2 4.9	21.7
327087 2004 XH_{1}	16.8	X	359.24177	312.58256	12.11615	12.00007	0.4738217	0.23026706	2.64	1.39	3.89	Mc	10 23.5	17.8
327172 2005 JC_{89}	17.7	X	178.51332	208.72695	63.04780	5.82282	0.3092957	0.27847359	2.32	1.60	3.04	Mc	—	—
327659 2006 QJ_{62}	17.3	X	245.66077	167.14547	142.15868	9.01421	0.2484952	0.30618610	2.18	1.64	2.72	Mc	2 11.8	21.0
327710 2006 SM_{77}	16.9	X	138.76319	142.80850	212.99723	25.88512	0.2621937	0.29124721	2.25	1.66	2.85	Mc	1 7.5	20.6
327718 2006 ST_{138}	18.1	X	221.30913	267.18077	51.52117	6.82646	0.2518761	0.30387031	2.19	1.64	2.74	Mc	2 7.6	21.9
327745 2006 TD_{29}	17.7	X	171.56428	270.71728	49.40662	2.17046	0.2715579	0.29160956	2.25	1.64	2.86	Mc	1 1.7	21.2
327794 2006 UB_{266}	15.4	X	75.42762	264.55656	241.22055	24.18448	0.4249406	0.22532073	2.67	1.54	3.81	Mc	6 15.3	19.3
328078 2007 XR_{31}	17.7	X	332.62420	318.42280	139.68372	5.42434	0.3040064	0.28496535	2.29	1.59	2.98	Mc	—	—
328485 2009 MO_{5}	18.3	X	270.86717	161.69500	130.20826	3.16877	0.2520272	0.30731826	2.17	1.63	2.72	Mc	2 10.4	21.7
328508 2009 QH_{9}	17.9	X	102.74599	358.03611	346.00196	1.74957	0.3053692	0.27370516	2.35	1.63	3.07	Mc	—	—
328563 Mosplanetarium	16.8	X	78.12121	71.93536	245.10892	8.45286	0.3219486	0.26199138	2.42	1.64	3.20	Mc	—	—
328734 2009 UA_{1}	17.2	X	181.73367	59.01825	212.11778	3.95233	0.3092172	0.27676232	2.33	1.61	3.05	Mc	—	—
328969 2010 VH_{173}	17.6	X	185.55544	267.32314	78.68077	2.42468	0.2431138	0.31212257	2.15	1.63	2.68	Mc	2 10.1	21.0
328979 2010 VB_{200}	17.4	X	114.95050	220.01321	132.78048	5.92393	0.2534801	0.29737938	2.22	1.66	2.79	Mc	—	—
329144 2011 UZ_{192}	16.9	X	121.27766	261.61143	222.76787	12.58888	0.4287659	0.23817859	2.58	1.47	3.68	Mc	6 26.5	21.8
329244 1992 UA	18.4	X	178.05940	196.54973	28.47879	7.77664	0.1225664	0.37984994	1.89	1.66	2.12	Mc	12 31.4	20.6
329261 1998 SW_{123}	17.2	X	57.57755	197.98931	175.05838	2.85202	0.3025069	0.26668391	2.39	1.67	3.11	Mc	—	—
329282 1999 WZ_{5}	16.1	X	65.60681	295.82170	103.37812	27.54430	0.3404329	0.28063506	2.31	1.52	3.10	Mc	—	—
329301 2000 RM_{77}	15.5	X	353.56134	290.41449	44.90753	29.63586	0.3785918	0.23192153	2.62	1.63	3.62	Mc	10 18.7	17.2
329342 2001 OL_{100}	17.5	X	80.96612	221.84544	116.16609	4.36376	0.3339294	0.26023066	2.43	1.62	3.24	Mc	—	—
329374 2001 WK_{5}	16.4	X	121.64053	94.48037	244.61152	7.51499	0.3450437	0.26048545	2.43	1.59	3.27	Mc	—	—
329436 2002 OC_{20}	18.2	X	155.95931	102.11111	219.34270	0.36192	0.2754073	0.28349610	2.29	1.66	2.93	Mc	—	—
329502 2002 RM_{137}	16.4	X	42.20244	241.02678	157.09170	22.57282	0.3146028	0.27015492	2.37	1.62	3.12	Mc	—	—
329555 2002 UB_{3}	16.2	X	71.43670	297.69916	87.95850	22.76804	0.3184336	0.27302380	2.35	1.60	3.10	Mc	—	—
329556 2002 UA_{12}	16.1	X	199.62446	92.92333	257.02780	22.29305	0.2848461	0.29000453	2.26	1.62	2.90	Mc	2 17.5	20.6
329615 2003 LV_{1}	18.6	X	71.75040	105.24722	75.33004	34.08683	0.0525117	0.54653658	1.48	1.40	1.56	Mc	5 19.2	19.2
329619 2003 OS_{22}	15.7	X	180.48765	205.44767	158.35013	8.73640	0.4516888	0.19509366	2.94	1.61	4.27	Mc	3 16.4	21.6
329774 2004 LE	16.7	X	324.66909	185.20942	211.55152	40.39452	0.8369334	0.22890426	2.65	0.43	4.86	Ja	5 27.3	21.0
329838 2004 SM_{58}	17.2	X	23.69985	76.62510	230.25350	4.14620	0.3699293	0.23316745	2.61	1.65	3.58	Mc	11 3.3	19.8
329923 2005 NK_{20}	16.5	X	186.08768	73.25656	275.68687	21.24856	0.3110832	0.28165258	2.30	1.59	3.02	Mc	2 10.4	21.0
330250 2006 RF_{19}	16.5	X	186.04527	295.14894	35.47891	8.22348	0.2785613	0.29698303	2.22	1.61	2.84	Mc	1 28.4	20.3
330260 2006 SB_{7}	16.9	X	318.38198	249.57968	4.23474	21.47170	0.3940494	0.31172300	2.15	1.31	3.00	Mc	1 29.3	20.6
330263 2006 SU_{22}	18.1	X	264.01946	198.65183	121.81019	6.00934	0.2426912	0.31113818	2.16	1.63	2.68	Mc	3 14.8	21.5
330759 2008 SO_{218}	12.8	X	179.51517	354.56822	348.45498	170.34433	0.5622993	0.04256226	8.12	3.56	12.69	Jc	3 16.7	23.8
330848 2009 PT_{5}	17.3	X	213.66967	334.53424	332.27777	4.51418	0.2654935	0.29420550	2.24	1.64	2.83	Mc	1 18.1	21.1
331484 1998 UX	16.2	X	156.20521	120.75643	254.33098	21.31075	0.2926816	0.27864722	2.32	1.64	3.00	Mc	2 17.5	20.5
331495 1999 RY_{221}	17.4	X	244.55868	53.62821	278.76670	4.23111	0.2594756	0.29979195	2.21	1.64	2.78	Mc	3 9.3	21.1
331506 1999 VC_{12}	16.2	X	348.27881	109.96945	268.87709	4.85462	0.4048674	0.22460885	2.68	1.60	3.77	Mc	12 4.2	17.3
331521 2000 QY_{40}	17.6	X	331.41295	44.91558	307.07776	2.34160	0.2941574	0.28118828	2.31	1.63	2.99	Mc	8 10.2	18.4
331522 2000 QD_{70}	17.0	X	48.53272	160.98685	167.42625	12.47933	0.3742472	0.24216982	2.55	1.60	3.50	Mc	12 30.7	21.3
331548 2000 VO_{47}	15.2	X	348.61784	105.27256	281.41711	27.32190	0.3783687	0.23178754	2.62	1.63	3.62	Mc	12 19.7	17.0
331551 2000 WL_{54}	16.1	X	297.31943	271.14825	284.40055	22.98194	0.3166384	0.28662904	2.28	1.56	3.00	Mc	—	—
331587 2001 TW	15.7	X	216.37437	281.25041	58.04403	22.35925	0.4970193	0.17926820	3.12	1.57	4.66	Mc	3 17.5	22.4
331614 2001 YA_{137}	15.7	X	143.65315	80.60494	279.58537	20.89536	0.3160401	0.26655243	2.39	1.64	3.15	Mc	1 28.2	19.6
331699 2002 RT_{45}	17.2	X	98.53919	312.83944	48.23753	1.98727	0.2999855	0.27721137	2.33	1.63	3.03	Mc	—	—
331722 2002 TR_{10}	16.8	X	20.84067	258.09189	179.36500	21.33142	0.3313734	0.27148233	2.36	1.58	3.14	Mc	—	—
331785 Sumners	16.4	X	87.20507	277.20170	239.72813	25.39791	0.4313854	0.22623258	2.67	1.52	3.82	Mc	7 6.9	21.1
331811 2003 SU_{99}	15.9	X	3.34387	116.39662	208.07094	13.78970	0.4131097	0.21944721	2.72	1.60	3.85	Mc	10 21.3	17.4
331848 2003 UB_{262}	17.7	X	185.51563	136.53058	243.46996	5.04313	0.2703259	0.30508282	2.19	1.59	2.78	Mc	3 23.2	21.5
331857 2003 WN_{7}	15.2	X	288.58027	280.11276	106.81919	30.49082	0.4049892	0.21101865	2.79	1.66	3.93	Mc	6 20.5	19.5
331984 2005 EM_{76}	17.5	X	260.49163	139.34061	175.21954	6.99539	0.2590007	0.30532852	2.18	1.62	2.75	Mc	2 28.8	21.0
331991 2005 FD_{3}	16.2	X	241.30374	120.53937	111.34273	39.59946	0.2846477	0.28449644	2.29	1.64	2.94	Mc	—	—
332026 2005 PH	16.8	X	145.91196	69.75173	243.42986	10.72019	0.3299469	0.27066007	2.37	1.59	3.15	Mc	—	—
332027 2005 PE_{3}	17.3	X	195.26942	186.12094	143.84595	7.28540	0.2893519	0.28073726	2.31	1.64	2.98	Mc	2 2.6	21.4
332033 2005 PL_{23}	16.7	X	134.05831	227.44724	107.45230	10.08010	0.3311898	0.27037826	2.37	1.58	3.15	Mc	—	—
332056 2005 RM_{44}	16.8	X	144.36073	188.37599	124.25479	11.12643	0.3217611	0.26908250	2.38	1.61	3.14	Mc	—	—
332079 2005 TZ_{27}	18.0	X	277.01933	253.96130	202.70809	3.92226	0.2491748	0.36829758	1.93	1.45	2.41	Mc	10 24.4	18.3
332136 2005 WT_{110}	17.5	X	285.19923	83.94494	241.71696	6.33553	0.3454833	0.29173668	2.25	1.47	3.03	Mc	3 27.6	21.1
332285 2006 SL_{411}	17.6	X	185.71911	234.91164	111.44927	12.11220	0.2557210	0.29598213	2.23	1.66	2.80	Mc	2 14.5	21.4
332663 2008 WA_{55}	18.4	X	270.94377	259.07472	256.68005	5.62393	0.2006793	0.38562301	1.87	1.49	2.24	Mc	—	—
332687 2009 OV_{2}	16.3	X	120.81449	262.58183	115.66538	23.04045	0.3586418	0.27990748	2.31	1.48	3.14	Mc	2 8.4	19.5
332715 2009 SX_{138}	17.8	X	152.53418	132.98425	207.00788	5.07320	0.2831140	0.27979239	2.32	1.66	2.97	Mc	1 11.1	21.3
333270 2146 P–L	16.0	X	357.53786	143.42107	198.70657	8.42071	0.4197641	0.22703970	2.66	1.54	3.78	Mc	11 7.9	17.3
333305 2000 VB_{35}	16.3	X	345.98437	193.02379	227.81144	7.57207	0.3608229	0.23628739	2.59	1.66	3.53	Mc	—	—
333309 2001 FR_{116}	17.4	X	226.76066	91.26748	147.57517	7.41733	0.2838611	0.27786512	2.33	1.67	2.99	Mc	—	—
333312 2001 MR_{18}	16.8	X	134.31314	53.79850	284.72964	7.83177	0.3305669	0.26769590	2.38	1.60	3.17	Mc	—	—
333416 2003 AG_{2}	16.2	X	120.91419	121.71150	294.52259	21.18932	0.3320492	0.27834732	2.32	1.55	3.09	Mc	3 11.4	20.1
333417 2003 AR_{72}	16.6	X	110.62553	258.14197	310.45075	26.75766	0.3813626	0.23704343	2.59	1.60	3.57	Mc	9 12.2	21.8
333525 2005 QF_{28}	17.0	X	113.34505	256.13484	136.64292	5.29951	0.3280990	0.27213131	2.36	1.58	3.13	Mc	2 14.6	20.0
333539 2005 SU_{220}	17.4	X	168.92922	65.25949	275.75230	5.54174	0.2972041	0.27565150	2.34	1.64	3.03	Mc	1 27.7	21.3
333725 2009 TX_{39}	17.1	X	262.87968	280.71074	64.22132	8.45142	0.2427690	0.30815624	2.17	1.64	2.70	Mc	4 15.6	20.5
333901 1999 RX_{112}	16.7	X	329.49609	58.61436	328.30349	7.79208	0.3871336	0.22448271	2.68	1.64	3.72	Mc	9 13.4	17.6
333948 1999 XG_{135}	16.5	X	65.33721	36.45236	86.86526	11.38711	0.5040602	0.19370314	2.96	1.47	4.45	Mc	5 22.5	20.4
333980 2000 RL_{12}	15.7	X	89.72410	275.12525	4.78651	34.31619	0.4837737	0.24396216	2.54	1.31	3.76	Mc	11 30.4	21.3
333981 2000 RF_{88}	17.8	X	235.74869	38.90768	290.57316	2.37136	0.2519063	0.31458361	2.14	1.60	2.68	Mc	2 27.0	21.3
334012 2000 VF_{12}	16.5	X	323.89591	35.72993	59.22520	6.12377	0.3699592	0.23756936	2.58	1.63	3.54	Mc	—	—
334028 2000 XT_{37}	17.6	X	281.93772	93.80228	305.72094	18.35082	0.1153904	0.41496673	1.78	1.57	1.99	Mc	8 16.5	18.7
334038 2001 CK_{20}	16.4	X	12.36525	71.84019	350.73102	11.82519	0.3781071	0.23765212	2.58	1.61	3.56	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
334042 2001 EC_{18}	18.2	X	109.19387	274.83778	347.43485	16.35215	0.2067609	0.46230939	1.66	1.31	2.00	Mc	12 18.3	20.7
334044 2001 FS_{116}	14.8	X	314.89668	269.27351	186.75061	26.99793	0.4188828	0.23273542	2.62	1.52	3.71	Mc	12 2.9	16.6
334055 2001 OK_{21}	16.9	X	114.22464	9.20222	314.89917	7.13267	0.3334741	0.26278754	2.41	1.61	3.22	Mc	—	—
334057 2001 OR_{47}	16.7	X	128.74124	34.57409	293.92381	7.21291	0.3065559	0.26577931	2.40	1.66	3.13	Mc	—	—
334073 2001 PL_{59}	15.8	X	124.70811	71.96397	4.94669	22.67859	0.4053595	0.27178906	2.36	1.40	3.32	Mc	4 22.2	20.1
334139 2001 RN_{56}	17.8	X	89.54000	5.10412	47.06105	1.51110	0.3240562	0.26554850	2.40	1.62	3.17	Mc	2 7.8	19.8
334256 2001 TS_{227}	16.8	X	107.54558	289.94825	106.78508	5.37045	0.3203886	0.26635659	2.39	1.63	3.16	Mc	2 13.5	19.7
334346 2001 YA_{4}	16.5	X	106.37006	73.74142	314.32743	19.50946	0.3412473	0.26086587	2.43	1.60	3.25	Mc	2 3.4	19.4
334352 2001 YF_{52}	15.5	X	73.36843	282.97855	271.28071	13.95672	0.4367047	0.21958665	2.72	1.53	3.91	Mc	8 11.8	20.0
334384 2002 BL_{26}	15.5	X	141.90082	206.66643	331.55179	38.55047	0.3947584	0.22781095	2.66	1.61	3.70	Mc	9 2.1	20.9
334457 2002 OH_{21}	17.3	X	260.58853	311.55749	17.32437	5.27763	0.3557850	0.29939538	2.21	1.43	3.00	Mc	3 15.3	21.3
334464 2002 PG_{65}	17.5	X	284.64402	315.58669	357.90345	5.73920	0.2703898	0.30238472	2.20	1.60	2.79	Mc	3 20.6	20.6
334469 2002 PO_{152}	17.9	X	280.48479	117.55005	137.79348	5.42595	0.2572405	0.29550190	2.23	1.66	2.81	Mc	1 5.2	21.7
334527 2002 RG_{189}	17.3	X	238.09031	213.99380	130.48641	7.14256	0.3590969	0.29496342	2.24	1.43	3.04	Mc	3 20.9	21.5
334625 2002 VL_{15}	16.2	X	202.67023	271.51980	49.80274	28.22409	0.4007967	0.23265427	2.62	1.57	3.67	Mc	2 16.6	21.9
334626 2002 VF_{39}	17.5	X	199.74174	283.37632	75.43542	9.23478	0.2803568	0.28971990	2.26	1.63	2.90	Mc	3 16.3	21.6
334631 2002 VU_{99}	16.1	X	119.12390	93.81051	338.03675	22.59222	0.2983226	0.28191535	2.30	1.62	2.99	Mc	3 27.9	19.7
334703 2003 EN_{43}	15.5	X	97.57447	66.93432	183.71772	22.79875	0.4926237	0.18232110	3.08	1.56	4.60	Mc	11 10.9	21.6
334736 2003 OJ_{20}	16.2	X	335.02273	30.95648	333.88109	17.35144	0.4363608	0.21840001	2.73	1.54	3.92	Mc	8 18.3	16.9
334947 2004 CB_{27}	16.6	X	101.92647	5.07614	338.43332	6.60678	0.3403658	0.27888893	2.32	1.53	3.11	Mc	—	—
334955 2004 CY_{104}	18.2	X	141.18211	25.22103	166.77696	7.36471	0.2097190	0.36585023	1.94	1.53	2.34	Mc	10 2.1	21.1
335016 2004 KJ_{6}	16.4	X	114.76617	263.62795	72.52601	7.80268	0.3293636	0.25756629	2.45	1.64	3.25	Mc	—	—
335024 2004 PD_{20}	17.9	X	100.41744	312.80209	16.05028	7.80509	0.3041616	0.36547008	1.94	1.35	2.53	Mc	—	—
335052 2004 RA_{110}	16.0	X	7.00233	74.27290	305.02197	27.31738	0.4080867	0.23310021	2.61	1.55	3.68	Mc	—	—
335071 2004 RB_{290}	16.3	X	343.65497	11.16826	23.67435	5.49074	0.3917698	0.23013189	2.64	1.60	3.67	Mc	12 16.2	17.5
335220 2005 GB_{27}	17.9	X	314.90646	60.60625	158.43256	7.29626	0.3335802	0.29654353	2.23	1.48	2.97	Mc	—	—
335271 2005 NC_{17}	17.3	X	227.81598	303.94724	20.58311	5.86988	0.2784071	0.28788992	2.27	1.64	2.90	Mc	2 20.5	21.3
335283 2005 OJ_{9}	17.5	X	224.13270	327.34289	316.20786	8.90590	0.3042353	0.28334175	2.30	1.60	2.99	Mc	—	—
335323 2005 QV_{108}	17.2	X	96.06609	261.30848	166.31130	22.21305	0.3212617	0.27362262	2.35	1.59	3.10	Mc	3 9.7	19.6
335451 2005 UR_{454}	17.0	X	166.52854	281.98468	64.02775	8.25506	0.2952616	0.27511162	2.34	1.65	3.03	Mc	2 4.5	21.0
335772 2007 EA_{166}	17.9	X	229.50500	181.64677	222.09159	1.94250	0.3479277	0.30498918	2.19	1.43	2.95	Mc	5 24.5	21.9
336053 2008 CU_{199}	16.9	X	248.47431	341.65821	358.26525	9.56676	0.2505764	0.30290312	2.20	1.65	2.75	Mc	3 23.6	20.5
336661 2009 XJ_{24}	17.5	X	248.37601	208.17040	158.53641	6.16397	0.3098177	0.30469031	2.19	1.51	2.86	Mc	4 25.4	21.3
337066 1998 BM_{10}	16.1	X	68.99169	44.91999	122.68463	24.12649	0.3671805	0.26173385	2.42	1.53	3.31	Mc	7 1.4	19.3
337074 1998 HU_{108}	16.8	X	28.62203	195.97238	63.03184	9.27694	0.5138684	0.21740785	2.74	1.33	4.15	Mc	10 5.4	19.9
337078 1998 RZ_{13}	18.1	X	214.52343	157.57052	172.82619	4.22918	0.2750523	0.28414151	2.29	1.66	2.92	Mc	2 15.5	22.0
337087 1998 SG_{171}	17.9	X	203.86129	349.97648	342.98801	3.75615	0.3061939	0.28250145	2.30	1.60	3.00	Mc	2 13.1	22.1
337091 1998 US_{1}	17.9	X	201.66488	65.68445	212.04239	8.77533	0.3757249	0.27600801	2.34	1.46	3.21	Mc	—	—
337096 1998 WE_{6}	16.6	X	203.39088	300.69274	57.75819	10.60507	0.3011704	0.28191482	2.30	1.61	3.00	Mc	3 19.8	20.9
337103 1999 JA_{5}	16.4	X	131.33994	57.58172	231.56494	18.50457	0.3642328	0.24252266	2.55	1.62	3.47	Mc	—	—
337104 1999 NN_{22}	16.2	X	35.66685	75.56414	293.43222	27.48201	0.3846213	0.23308333	2.61	1.61	3.62	Mc	—	—
337110 1999 RE_{110}	17.4	X	276.43163	26.27673	308.99165	6.68864	0.2519758	0.30388066	2.19	1.64	2.74	Mc	4 8.5	20.7
337144 1999 TQ_{231}	17.7	X	273.98253	210.38172	124.90950	5.47430	0.2797794	0.30403196	2.19	1.58	2.80	Mc	4 9.7	21.0
337157 1999 UA_{5}	16.3	X	305.28044	86.14083	23.23314	5.77636	0.4756463	0.22642099	2.67	1.40	3.93	Mc	10 26.6	17.7
337214 2000 BV	16.6	X	11.89051	80.90090	336.94198	26.76581	0.4111372	0.22887475	2.65	1.56	3.74	Mc	—	—
337228 2000 FL_{1}	15.4	X	291.58257	7.85825	78.73242	43.35494	0.5239873	0.21657823	2.75	1.31	4.19	Mc	9 7.2	20.0
337283 2000 WR_{67}	17.7	X	3.42924	235.10667	236.83115	7.07132	0.4102367	0.24156816	2.55	1.51	3.60	Mc	—	—
337328 2001 DU_{40}	16.5	X	26.39292	295.16341	143.99254	9.71927	0.3762724	0.24089831	2.56	1.60	3.52	Mc	—	—
337371 2001 QL_{3}	17.2	X	175.95753	204.78199	137.91015	6.91523	0.3047549	0.27352387	2.35	1.63	3.07	Mc	2 5.7	21.1
337372 2001 QO_{40}	17.1	X	168.44419	232.89574	149.20568	4.72810	0.3055440	0.27600836	2.34	1.62	3.05	Mc	3 20.2	21.1
337555 2001 SM_{261}	17.5	X	164.75781	100.88396	207.02791	5.91866	0.3210163	0.26691749	2.39	1.62	3.16	Mc	—	—
337589 2001 SS_{342}	17.4	X	128.84300	301.14067	81.60650	7.06580	0.3076724	0.26779414	2.38	1.65	3.12	Mc	2 18.9	20.9
337607 2001 TB_{13}	16.9	X	100.14749	279.35441	172.65203	23.16060	0.3667371	0.26753694	2.39	1.51	3.26	Mc	4 28.0	20.6
337841 2001 VA_{76}	18.0	X	345.19341	123.31778	21.42421	6.94460	0.2704294	0.36029206	1.96	1.43	2.48	Mc	—	—
338057 2002 NN_{78}	17.4	X	279.66095	267.34890	77.35928	6.18925	0.2426929	0.30362513	2.19	1.66	2.72	Mc	5 1.4	20.4
338065 2002 OJ_{36}	18.0	X	318.52708	281.89646	16.06745	5.52420	0.2448165	0.30574051	2.18	1.65	2.72	Mc	4 12.6	20.3
338084 2002 PP_{135}	17.9	X	275.17872	209.22416	108.41996	3.30473	0.2571763	0.30050873	2.21	1.64	2.78	Mc	3 20.4	21.2
338085 2002 PH_{141}	17.1	X	222.20717	79.18272	288.79503	5.67058	0.2582485	0.29578306	2.23	1.65	2.81	Mc	4 4.8	21.1
338101 2002 PD_{196}	17.6	X	258.45320	293.63609	41.77081	5.53873	0.2833184	0.29915389	2.21	1.59	2.84	Mc	3 26.9	21.4
338159 2002 RY	17.8	X	254.34620	115.13564	215.07148	8.56003	0.3095371	0.29779936	2.22	1.53	2.91	Mc	3 11.4	21.8
338214 2002 SO_{59}	17.3	X	225.17495	283.72185	71.40316	7.15315	0.2612661	0.29512780	2.23	1.65	2.82	Mc	3 28.7	21.2
338238 2002 TN_{105}	17.9	X	177.73472	151.17935	231.61405	6.00282	0.2654072	0.29054043	2.26	1.66	2.86	Mc	3 21.6	21.8
338254 2002 TZ_{206}	17.4	X	249.80636	113.81134	224.59609	4.85361	0.2839201	0.29575858	2.23	1.60	2.86	Mc	3 20.5	21.2
338293 2002 UZ_{35}	18.0	X	148.01499	95.24130	3.77495	7.80979	0.3428935	0.29123866	2.25	1.48	3.03	Mc	6 7.7	22.1
338336 2002 WB_{1}	17.2	X	173.99004	75.29097	15.11609	7.68292	0.3338395	0.29035012	2.26	1.50	3.01	Mc	6 14.7	21.5
338445 2003 ET_{47}	16.7	X	86.45023	275.15172	337.75913	26.79261	0.4265348	0.23323668	2.61	1.50	3.73	Mc	10 21.3	22.0
338523 2003 QR_{89}	16.2	X	55.04140	304.82481	309.98166	17.69862	0.4089565	0.22275851	2.70	1.59	3.80	Mc	9 30.9	20.5
338698 2003 UV_{19}	18.8	X	324.34315	124.11504	215.13990	33.46879	0.0801490	0.54267265	1.49	1.37	1.61	Mc	7 26.3	20.8
338808 2003 WZ_{12}	15.7	X	6.82605	68.72300	282.72089	23.53230	0.4274591	0.21829782	2.73	1.56	3.90	Mc	12 14.3	18.4
338847 2003 XZ_{21}	16.8	X	353.68380	193.37323	122.39848	5.09934	0.3238685	0.32221360	2.11	1.42	2.79	Mc	9 12.4	16.5
339019 2004 HH	18.2	X	279.57672	304.15725	322.23879	4.82937	0.1453837	0.39504673	1.84	1.57	2.11	Mc	1 10.1	20.3
339072 2004 QK_{13}	15.8	X	3.45231	111.41222	340.42803	26.28921	0.3827385	0.23726254	2.58	1.60	3.57	Mc	—	—
339147 2004 TY_{8}	18.7	X	173.88509	196.41568	70.73658	0.38669	0.1704828	0.36681721	1.93	1.60	2.26	Mc	—	—
339148 2004 TT_{9}	16.2	X	324.49002	255.50707	204.21100	26.51768	0.4577873	0.23310588	2.61	1.42	3.81	Mc	—	—
339233 2004 UG	15.3	X	265.40816	121.74006	33.31787	31.53846	0.3982033	0.22581706	2.67	1.61	3.73	Mc	11 1.1	19.1
339280 2004 XQ_{14}	16.3	X	28.29301	264.11375	90.63968	28.38698	0.4299729	0.23354716	2.61	1.49	3.73	Mc	—	—
339580 2005 MK_{13}	16.8	X	198.21287	117.17227	248.23861	4.49057	0.2714513	0.28634452	2.28	1.66	2.90	Mc	3 16.2	20.9
339634 2005 QG_{27}	17.8	X	241.39490	227.66601	82.45084	3.03691	0.2783272	0.28649344	2.28	1.64	2.91	Mc	2 11.8	21.8
339649 2005 QH_{56}	17.8	X	198.72717	199.91952	118.51793	2.60327	0.3086622	0.28028247	2.31	1.60	3.03	Mc	1 23.5	22.0
339669 2005 QB_{114}	17.7	X	246.20659	165.18643	156.61996	9.86938	0.2806056	0.28856950	2.27	1.63	2.90	Mc	2 28.2	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
339700 2005 RY_5	17.7	X	253.76194	111.04902	176.13145	5.62764	0.2994325	0.28723365	2.27	1.59	2.96	Mc	1 21.5	21.8
339705 2005 RB_{22}	17.3	X	223.09812	320.16615	45.50311	10.09279	0.3126558	0.29052518	2.26	1.55	2.96	Mc	4 7.7	21.4
339713 2005 SG_1	17.3	X	213.54122	326.27230	15.78296	6.66277	0.2995928	0.28592350	2.28	1.60	2.97	Mc	3 3.5	21.4
339739 2005 SU_{50}	18.3	X	212.41388	139.89674	196.55244	5.91876	0.3009479	0.28331970	2.30	1.60	2.99	Mc	2 20.6	22.5
339745 2005 SG_{56}	17.8	X	187.65781	215.59404	178.52812	5.37922	0.2782155	0.28450177	2.29	1.65	2.93	Mc	4 16.1	21.7
339847 2005 TK_{23}	17.1	X	137.30567	20.40646	51.40895	4.78350	0.2933021	0.27795613	2.33	1.64	3.01	Mc	4 24.9	20.9
340014 2005 UF_{344}	17.5	X	197.17832	330.50734	338.70869	3.08441	0.2957242	0.27590820	2.34	1.65	3.03	Mc	1 12.2	21.6
340093 2005 WR_{56}	17.0	X	312.33902	272.59895	90.17351	4.74816	0.2524328	0.29958916	2.21	1.65	2.77	Mc	7 16.1	18.4
340795 2006 TT_{44}	18.2	X	317.59932	108.51441	221.22249	0.81643	0.2286479	0.31835258	2.12	1.64	2.61	Mc	6 3.8	19.9
340836 2006 VO_{13}	17.3	X	313.07940	281.90735	45.90146	5.78883	0.3283925	0.31736274	2.13	1.43	2.83	Mc	5 3.6	19.5
340844 2006 WK_{139}	18.5	X	310.98245	211.82957	127.20273	1.49086	0.2210248	0.31629435	2.13	1.66	2.60	Mc	6 8.2	20.2
343223 2009 WD_{82}	17.3	X	284.44225	359.74859	330.67780	4.75047	0.2387199	0.30702588	2.18	1.66	2.70	Mc	4 13.2	20.4
343225 2009 WX_{83}	17.4	X	308.99253	285.62687	26.28728	7.20642	0.2467226	0.30856021	2.17	1.63	2.70	Mc	4 18.5	19.6
344065 1995 UB_4	17.0	X	25.99504	18.87003	32.18131	9.08190	0.4068748	0.23329811	2.61	1.55	3.68	Mc	—	—
344072 1997 CY_1	18.0	X	222.44528	317.00887	332.52069	24.34116	0.2830363	0.40229585	1.82	1.30	2.33	Mc	—	—
344077 1998 HG_8	17.6	X	290.57819	156.26030	154.66117	5.17677	0.2639411	0.29890759	2.22	1.63	2.80	Mc	3 25.8	20.8
344093 1999 RB_{19}	17.5	X	334.12295	79.64738	237.78793	4.66112	0.3209582	0.31188381	2.15	1.46	2.84	Mc	6 1.3	18.4
344112 1999 VD_4	16.7	X	18.05199	355.34414	54.02011	5.95779	0.3752484	0.23053305	2.63	1.65	3.62	Mc	—	—
344132 1999 YP_{13}	15.4	X	33.02697	286.22446	121.52414	29.12452	0.3825523	0.23210773	2.62	1.62	3.63	Mc	—	—
344146 2000 NP_{11}	15.0	X	276.30022	103.26586	116.14657	30.62678	0.4290170	0.21839975	2.73	1.56	3.90	Mc	—	—
344147 2000 PK_8	17.8	X	92.12556	51.90671	319.49016	15.77136	0.4566715	0.24936976	2.50	1.36	3.64	Mc	1 16.9	20.4
344150 2000 QV_{159}	17.9	X	41.07987	177.55103	182.52940	10.53393	0.3466030	0.24314786	2.54	1.66	3.42	Mc	—	—
344151 2000 SV_4	18.0	X	238.12990	273.76119	46.96144	10.23229	0.1606862	0.40738526	1.80	1.51	2.09	Mc	2 13.6	20.5
344161 2000 YK_{18}	16.3	X	65.31510	225.04002	222.22426	6.63668	0.3446547	0.24745326	2.51	1.65	3.38	Mc	2 14.3	18.1
344184 2001 DT_{105}	16.5	X	329.03867	255.95533	167.61842	6.36591	0.3801629	0.23224963	2.62	1.62	3.62	Mc	12 10.1	17.3
344191 2001 KB_{18}	17.4	X	163.27422	36.54575	255.85144	5.01178	0.3200231	0.27034876	2.37	1.61	3.13	Mc	—	—
344202 2001 QJ_{111}	17.1	X	196.99293	214.67050	114.75955	10.81947	0.2972617	0.27566344	2.34	1.64	3.03	Mc	2 5.3	21.2
344236 2001 SC_{127}	18.4	X	162.15969	138.49533	186.08233	5.70126	0.3164030	0.26928523	2.37	1.62	3.13	Mc	1 5.6	22.4
344332 2001 VL_{75}	15.8	X	128.00536	268.03499	252.43367	19.54294	0.3176774	0.28168946	2.30	1.57	3.04	Mc	8 1.7	20.2
344342 2001 WZ_{15}	15.5	X	208.07763	81.20643	279.08922	21.83245	0.3018147	0.27498844	2.34	1.64	3.05	Mc	3 7.9	20.3
344474 2002 PN_{113}	15.0	X	318.18219	128.79229	254.58795	13.93765	0.4296474	0.20360789	2.86	1.63	4.09	Mc	7 17.8	17.9
344520 2002 SF_2	18.4	X	258.42065	155.84906	168.08525	5.51827	0.2676707	0.29678160	2.23	1.63	2.82	Mc	3 11.9	22.0
344532 2002 TH_{237}	17.8	X	159.38737	121.41223	272.80984	6.39858	0.3111162	0.28712086	2.28	1.57	2.98	Mc	3 23.3	21.8
344551 2002 VJ_{122}	17.4	X	131.91225	238.51967	247.75970	20.60500	0.3640773	0.28932197	2.26	1.44	3.09	Mc	6 30.0	21.6
344631 2003 LY_2	16.1	X	73.51012	37.62464	257.92471	34.96284	0.4510091	0.23043607	2.63	1.45	3.82	Mc	12 15.2	20.9
344806 2004 BK_{41}	17.2	X	340.43274	80.13992	275.11575	26.18354	0.0518258	0.42754745	1.75	1.65	1.84	Mc	9 23.2	19.5
344861 2004 HP_{38}	17.2	X	198.54024	135.61529	126.59590	6.58618	0.3408242	0.26375619	2.41	1.59	3.23	Mc	—	—
345053 2005 GD_{103}	17.4	X	275.90516	285.32497	27.48476	7.12071	0.3012071	0.30047734	2.21	1.54	2.87	Mc	3 12.1	20.9
345097 2005 NH_1	17.7	X	248.81742	241.24546	91.42025	2.76625	0.3585468	0.29076707	2.26	1.45	3.07	Mc	3 12.8	21.8
345106 2005 OS_4	17.3	X	260.96959	239.73121	97.54494	6.40920	0.2674248	0.29429279	2.24	1.64	2.84	Mc	4 3.4	21.0
345124 2005 QR_{148}	17.9	X	272.66905	239.36623	79.28999	5.80781	0.2606682	0.29430829	2.24	1.65	2.82	Mc	3 21.3	21.4
345130 2005 RS_{29}	18.2	X	279.65274	176.91656	192.94661	22.75974	0.1205400	0.42482168	1.75	1.54	1.96	Mc	6 19.8	20.4
345131 2005 SC_1	18.2	X	282.64302	226.67679	69.26767	2.46452	0.3260462	0.29139026	2.25	1.52	2.99	Mc	2 22.1	21.9
346281 2008 JV_4	17.7	X	290.78450	271.01655	31.91742	10.04483	0.3350862	0.29530560	2.23	1.48	2.98	Mc	3 11.4	21.3
346479 2008 UG	17.0	X	180.59446	346.95796	359.45801	13.88519	0.3749731	0.27064882	2.37	1.48	3.25	Mc	2 20.7	21.5
346763 2009 BZ_{73}	17.0	X	18.22722	39.98531	23.55706	7.72147	0.3784538	0.23605136	2.59	1.61	3.57	Mc	—	—
346892 2009 RY_{42}	18.1	X	179.31428	205.40114	213.33539	5.56636	0.2730683	0.29972690	2.21	1.61	2.82	Mc	5 9.2	21.8
346931 2010 AR_{35}	16.7	X	218.37298	202.83575	145.68250	7.07686	0.2816912	0.28192257	2.30	1.65	2.95	Mc	3 14.2	20.8
346961 2010 CU_1	17.7	X	251.14532	270.13207	138.34444	4.37916	0.3162788	0.30737955	2.17	1.49	2.86	Mc	6 18.6	21.1
347149 2011 CB_{76}	16.8	X	12.60454	251.05952	0.17629	23.31046	0.2556404	0.30539743	2.18	1.63	2.74	Mc	5 31.8	18.6
347375 2012 RL_{12}	17.6	X	285.17560	309.01811	10.62449	7.21428	0.2835974	0.30759642	2.17	1.56	2.79	Mc	3 27.7	20.5
347449 2012 TW_{236}	12.3	X	118.14677	326.62372	179.23809	11.99129	0.5686299	0.05358409	6.97	3.01	10.93	Jc	7 25.6	22.2
347499 1998 SV_2	16.8	X	232.68020	45.31915	310.52895	24.76921	0.3115656	0.28720339	2.28	1.57	2.98	Mc	3 16.2	21.5
347505 1999 CM_4	16.4	X	98.94425	90.95308	126.58343	22.77336	0.3148777	0.28031135	2.31	1.58	3.04	Mc	10 5.8	20.8
347509 1999 RA_{104}	18.4	X	338.45690	102.11766	203.37331	7.08072	0.3674883	0.31134824	2.16	1.36	2.95	Mc	5 10.4	19.3
347514 1999 SP_{14}	17.2	X	95.02413	69.82557	239.39410	12.82765	0.4042172	0.23648797	2.59	1.54	3.64	Mc	—	—
347538 2000 AP_1	17.0	X	185.91335	59.45641	89.88733	20.65061	0.2864746	0.30044789	2.21	1.58	2.84	Mc	9 16.9	21.3
347548 2000 QA_{50}	17.8	X	188.52798	167.55218	148.30088	6.52686	0.3244833	0.25987067	2.43	1.64	3.22	Mc	1 16.0	22.2
347558 2000 UP_{18}	16.4	X	84.06770	56.15473	282.10454	7.25228	0.2898704	0.29155115	2.25	1.60	2.91	Mc	—	—
347567 2000 WQ_{28}	16.9	X	208.54992	36.11456	61.27657	24.61708	0.3413826	0.26999817	2.37	1.56	3.18	Mc	7 18.3	21.7
347584 2001 EH_{18}	15.6	X	359.42048	100.91696	88.30778	34.03015	0.3629922	0.24158146	2.55	1.63	3.48	Mc	1 4.0	18.2
347593 2001 PX_{21}	16.6	X	147.17783	260.63864	149.94815	22.31658	0.3152105	0.27506812	2.34	1.60	3.08	Mc	4 13.3	20.9
347622 2001 SU_{122}	17.5	X	83.48082	176.57458	227.64455	5.41235	0.3198389	0.26444992	2.40	1.64	3.17	Mc	1 11.8	19.3
347635 2001 SQ_{277}	17.6	X	169.85241	54.68444	315.33538	6.45106	0.2968360	0.27174585	2.36	1.66	3.06	Mc	3 3.8	21.7
347803 2002 JY_{55}	16.8	X	32.08152	78.84078	229.23071	14.27548	0.4350556	0.21622424	2.75	1.55	3.95	Mc	11 24.5	20.3
347812 2002 MW_3	16.1	X	59.96076	174.34395	127.45202	11.37475	0.4397533	0.21642446	2.75	1.54	3.96	Mc	12 13.4	20.9
347861 2002 RT_{190}	17.6	X	134.06055	305.69421	14.79323	7.16795	0.3061554	0.27985833	2.31	1.61	3.02	Mc	—	—
347887 2002 TG_{186}	18.0	X	204.93191	130.13775	207.06510	6.67759	0.2756952	0.29007255	2.26	1.64	2.88	Mc	2 14.7	22.2
347900 2002 VR_3	18.0	X	284.76280	101.39439	270.62717	3.51083	0.2614697	0.30303601	2.20	1.62	2.77	Mc	6 10.7	20.6
347910 2002 XP_{52}	16.9	X	233.04536	96.28270	293.28612	23.09426	0.2689000	0.29525708	2.23	1.63	2.83	Mc	5 7.9	21.2
347961 2003 RK_1	16.6	X	331.82353	341.61474	54.51440	11.51552	0.4008685	0.21863117	2.73	1.63	3.82	Mc	10 20.4	17.5
348028 2003 UD_4	16.7	X	12.41762	222.86802	237.53759	22.09119	0.2720960	0.28696823	2.28	1.66	2.90	Mc	—	—
348053 2003 UA_{206}	17.8	X	7.46731	186.77673	230.56237	4.53200	0.2784435	0.28122218	2.31	1.66	2.95	Mc	—	—
348073 2003 WN_{22}	16.7	X	36.83336	265.69145	97.72123	18.17234	0.3845245	0.22517093	2.68	1.65	3.70	Mc	—	—
348432 2005 QR_{12}	18.0	X	301.10949	13.01031	309.21846	4.73758	0.2549401	0.29953716	2.21	1.65	2.78	Mc	4 19.9	20.8
348442 2005 QY_{88}	17.9	X	225.40766	136.90348	235.58909	1.43360	0.2733539	0.28950303	2.26	1.64	2.88	Mc	4 15.5	21.9
348490 2005 SB_{221}	16.3	X	268.39210	342.91856	2.70136	7.55162	0.4009599	0.23120392	2.63	1.57	3.68	Mc	4 8.8	20.9
348612 2005 YP	17.7	X	210.42326	263.27197	290.41038	9.98642	0.1335469	0.43484619	1.73	1.50	1.96	Mc	—	—
349366 2007 VB_{227}	17.1	X	73.48507	286.68583	84.51671	9.02147	0.2671886	0.29764951	2.22	1.63	2.82	Mc	—	—
349694 2008 XF_3	16.4	X	51.75300	253.64278	112.06527	29.25750	0.4048083	0.23390561	2.61	1.55	3.66	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
349930 2009 XH_{17}	18.0	X	282.63327	72.55478	297.00077	2.02107	0.2669213	0.30778021	2.17	1.59	2.75	Mc	6 3.2	20.8
350243 2012 TZ_{78}	17.4	X	353.86626	162.53948	135.15029	3.83701	0.2368452	0.31473699	2.14	1.63	2.65	Mc	7 15.1	17.7
350518 2000 CH_{72}	17.1	X	300.14747	77.15935	79.78711	6.12371	0.4035851	0.22235049	2.70	1.61	3.79	Mc	—	—
350524 2000 EA_{137}	17.4	X	350.04108	107.75077	14.95614	6.46845	0.3839687	0.22678584	2.66	1.64	3.69	Mc	—	—
350535 2000 QY_{44}	17.1	X	157.20287	241.99278	142.42113	3.51573	0.3308888	0.26023516	2.43	1.63	3.23	Mc	3 17.5	21.2
350587 2001 QR_{15}	17.3	X	203.70884	243.04307	118.57699	6.05441	0.3103820	0.27823555	2.32	1.60	3.05	Mc	3 21.3	21.6
350594 2001 QU_{261}	18.0	X	223.80369	60.93677	304.81822	5.92686	0.2821389	0.28009370	2.31	1.66	2.97	Mc	4 3.6	22.3
350872 2002 PG_{43}	18.2	X	314.63566	5.55317	346.93386	6.92146	0.4022814	0.30748430	2.17	1.30	3.05	Mc	5 29.1	20.3
350973 2003 EN_{31}	17.1	X	116.20277	268.42396	302.74307	6.58111	0.3364683	0.29053550	2.26	1.50	3.02	Mc	10 1.1	21.3
351009 2003 PQ_{1}	16.8	X	67.68535	105.28642	148.68563	9.71903	0.2918754	0.27959711	2.32	1.64	2.99	Mc	10 17.3	20.2
351016 2003 QM_{78}	16.6	X	8.81527	51.08455	355.62798	28.15247	0.3770689	0.22502731	2.68	1.67	3.69	Mc	—	—
351068 2003 TS_{13}	15.8	X	71.96160	140.05719	233.26604	7.89549	0.3940228	0.23273816	2.62	1.59	3.65	Mc	—	—
351192 2004 CN_{70}	18.9	X	255.03609	193.63413	332.00265	5.35702	0.2118141	0.32614943	2.09	1.65	2.53	Mc	12 29.7	20.5
351223 2004 PG_{7}	17.3	X	347.56790	335.77198	320.17238	7.72416	0.2735927	0.28717924	2.28	1.65	2.90	Mc	6 14.2	18.5
351237 2004 QL_{12}	16.8	X	291.46798	301.97796	12.61352	12.89366	0.2930797	0.27935642	2.32	1.64	3.00	Mc	3 29.4	20.0
351370 2005 EY	17.1	X	16.14304	185.76040	62.39989	17.22551	0.8907834	0.24689144	2.52	0.27	4.76	Ja	11 9.4	21.0
351549 2005 TJ_{73}	18.0	X	244.62969	200.47313	146.32291	7.25679	0.2935461	0.28956162	2.26	1.60	2.93	Mc	3 30.8	21.9
351615 2005 WU_{55}	17.0	X	353.95658	60.83516	260.60850	3.97175	0.2529963	0.30178760	2.20	1.64	2.76	Mc	9 3.3	17.7
351621 2005 WA_{174}	17.0	X	249.29059	258.22955	121.18495	4.62866	0.2857647	0.29100152	2.26	1.61	2.90	Mc	5 14.2	20.8
351664 2006 AP_{2}	17.1	X	189.32407	188.67457	203.37951	5.41371	0.2890219	0.27980502	2.32	1.65	2.98	Mc	4 14.3	21.3
352735 2008 SQ_{301}	17.6	X	82.23052	230.24887	69.91063	4.04659	0.2245607	0.31611134	2.13	1.65	2.61	Mc	12 22.9	20.7
353959 1999 UC_{23}	17.7	X	19.38673	252.62517	213.60920	9.55116	0.3934522	0.23433352	2.61	1.58	3.63	Mc	—	—
353967 1999 XM_{136}	15.7	X	50.15436	87.62791	317.16607	26.47057	0.4203054	0.23134475	2.63	1.52	3.73	Mc	—	—
353982 2000 EZ_{13}	16.6	X	259.80017	321.20846	342.25264	52.62801	0.1352710	0.37399547	1.91	1.65	2.17	Mc	2 26.8	19.3
353985 2000 JW_{60}	17.9	X	109.58404	343.93708	271.84939	1.90375	0.3029997	0.29556752	2.23	1.56	2.91	Mc	11 21.4	21.9
353987 2000 OQ_{19}	17.2	X	322.22197	168.14870	139.64310	7.98746	0.3025391	0.27804649	2.32	1.62	3.03	Mc	4 30.6	19.6
354062 2001 TU_{115}	17.2	X	248.49349	12.38333	5.93032	3.67596	0.3170322	0.28317401	2.30	1.57	3.02	Mc	5 7.7	21.0
354112 2002 AS_{17}	16.4	X	206.67795	88.67777	296.64138	20.69672	0.3025309	0.27392723	2.35	1.64	3.06	Mc	4 7.6	21.2
354365 2003 LX_{2}	17.4	X	71.10737	106.73439	172.97161	6.33072	0.4149952	0.28415745	2.29	1.34	3.24	Mc	11 30.4	21.5
354368 2003 QS_{4}	18.0	X	55.58797	51.85445	204.25873	4.35543	0.2966852	0.27744627	2.33	1.64	3.02	Mc	10 3.3	20.8
354374 2003 RR_{8}	17.0	X	82.00759	76.73991	281.17246	7.64859	0.4259286	0.23322474	2.61	1.50	3.73	Mc	—	—
354408 2003 UR_{205}	16.4	X	53.60858	159.56435	232.19233	9.24659	0.3967614	0.22996164	2.64	1.59	3.69	Mc	—	—
354503 2004 PN_{16}	17.1	X	201.80158	34.23896	340.35544	6.33453	0.3009652	0.26960413	2.37	1.66	3.09	Mc	3 31.6	21.5
354525 2004 RZ_{90}	17.6	X	125.03467	76.27897	228.57238	5.77998	0.2465730	0.30999218	2.16	1.63	2.70	Mc	—	—
354558 2004 TK_{70}	17.7	X	124.37423	276.80993	157.63093	2.40165	0.3678572	0.26205485	2.42	1.53	3.31	Mc	4 25.2	21.7
354683 2005 PM_{4}	16.5	X	283.17013	195.92111	60.02270	10.22881	0.4063083	0.23085107	2.63	1.56	3.70	Mc	1 7.2	21.4
354820 2005 WR_{97}	17.4	X	49.73520	248.39691	67.12610	5.26641	0.2566298	0.30967402	2.16	1.61	2.72	Mc	12 13.8	20.2
355256 2007 KN_{4}	16.8	X	115.80104	51.23052	232.43875	12.53308	0.6309415	0.16120433	3.34	1.23	5.45	Jc	12 23.9	23.8
355797 2008 ST_{141}	17.4	X	155.16206	353.79216	49.27499	6.11602	0.3358178	0.26700554	2.39	1.59	3.19	Mc	4 8.1	21.6
355873 2008 VK_{2}	17.1	X	13.37382	83.13843	253.66141	5.55771	0.2975754	0.30473337	2.19	1.54	2.84	Mc	12 2.1	18.8
356453 2011 LT_{26}	17.0	X	45.98255	75.60709	251.29587	6.47211	0.3193342	0.30564648	2.18	1.49	2.88	Mc	12 30.8	20.3
356520 2011 SV_{87}	17.6	X	62.86829	34.96018	269.52916	2.82039	0.2438362	0.30745023	2.17	1.64	2.70	Mc	12 11.1	20.8
356948 2012 VE_{5}	18.5	X	230.02352	237.53846	88.11915	2.36584	0.4112559	0.29653221	2.23	1.31	3.14	Mc	2 19.7	22.9
356971 1991 TK_{2}	15.6	X	196.86201	139.09356	194.29038	12.43442	0.4814738	0.21585878	2.75	1.43	4.08	Mc	2 14.2	21.5
357023 1999 YZ_{3}	16.2	X	10.44427	75.00321	48.69673	28.58654	0.3700341	0.23164674	2.63	1.65	3.60	Mc	—	—
357035 2000 LD_{15}	17.8	X	17.08618	144.93280	154.21350	4.96600	0.3007783	0.28442521	2.29	1.60	2.98	Mc	10 9.5	19.4
357037 2000 NU_{23}	17.1	X	266.40424	38.20197	308.05046	8.56578	0.3424196	0.27227127	2.36	1.55	3.16	Mc	4 6.9	21.2
357060 2001 OC_{99}	16.5	X	263.79424	255.46263	133.86031	21.64086	0.2846561	0.28958219	2.26	1.62	2.91	Mc	6 12.5	20.3
357063 2001 PO_{59}	17.6	X	347.67394	1.41121	335.37343	6.34255	0.3036493	0.29523496	2.23	1.56	2.91	Mc	9 17.6	17.8
357094 2001 TM	17.4	X	283.74590	6.96044	26.80198	7.46649	0.3289483	0.29121618	2.25	1.51	3.00	Mc	7 1.1	20.4
357117 2001 WG_{23}	16.3	X	225.47798	53.31597	20.21815	24.86471	0.4855692	0.18157374	3.09	1.59	4.59	Mc	6 20.4	22.7
357126 2001 XR_{246}	17.4	X	299.32625	70.31620	279.57445	4.75275	0.2794029	0.28614623	2.28	1.64	2.92	Mc	5 26.6	19.9
357129 2001 XU_{266}	17.4	X	210.98658	241.51690	163.86685	22.59687	0.3622767	0.28582192	2.28	1.46	3.11	Mc	5 18.9	22.2
357152 2002 CO_{15}	17.3	X	49.24164	240.89622	168.48669	31.31608	0.3068383	0.35321503	1.98	1.37	2.59	Mc	—	—
357153 2002 CO_{23}	16.9	X	226.89431	180.80734	206.62496	5.01465	0.3414779	0.27808862	2.32	1.53	3.12	Mc	5 4.0	21.2
357319 2003 GR_{8}	17.4	X	137.81212	203.00833	14.17429	6.44535	0.3154000	0.29227313	2.25	1.54	2.96	Mc	10 24.6	21.4
357333 2003 NJ_{7}	17.6	X	130.60597	326.07431	30.18104	9.35866	0.3014136	0.35255553	1.98	1.39	2.58	Mc	—	—
357355 2003 RV_{8}	16.7	X	31.72218	119.11437	195.53860	21.51101	0.3252779	0.27788996	2.33	1.57	3.08	Mc	11 27.7	19.9
357406 2003 VB_{3}	19.4	X	331.07748	305.01803	191.60000	1.03772	0.3386508	0.33920926	2.04	1.35	2.73	Mc	—	—
357430 2003 YP_{135}	16.1	X	51.07770	328.63262	86.28094	14.58564	0.3902296	0.22720766	2.66	1.62	3.70	Mc	—	—
357510 2004 RD_{10}	17.8	X	158.18109	52.65930	213.05397	1.76117	0.2433647	0.30977644	2.16	1.64	2.69	Mc	—	—
357635 2005 GW_{8}	16.6	X	5.58042	260.58705	216.06041	27.51875	0.3706029	0.23388880	2.61	1.64	3.58	Mc	—	—
357956 2006 AN_{11}	16.7	X	196.47503	122.18717	359.89350	25.71164	0.2859994	0.28784043	2.27	1.62	2.92	Mc	8 22.2	21.0
358046 2006 GR_{35}	17.1	X	93.72093	239.88833	21.40497	22.01351	0.2979127	0.28211928	2.30	1.62	2.99	Mc	11 9.0	21.2
358060 2006 HR_{49}	17.8	X	98.33904	153.81758	121.79242	5.73820	0.4202224	0.28189317	2.30	1.34	3.27	Mc	12 11.3	22.4
358109 2006 KZ_{123}	16.0	X	346.08506	295.44109	30.18442	21.89308	0.3196789	0.26273148	2.41	1.64	3.19	Mc	8 31.3	17.8
358438 2007 DZ_{82}	17.6	X	283.98452	326.94244	173.70074	23.74930	0.2075345	0.32441240	2.10	1.66	2.53	Mc	—	—
358473 2007 PA_{5}	17.8	X	71.30232	163.46969	138.46162	6.36335	0.2614958	0.29602470	2.23	1.65	2.81	Mc	12 16.1	21.3
358498 2007 RP_{145}	17.2	X	311.57382	351.85372	335.62854	2.86834	0.3143419	0.27194091	2.36	1.62	3.10	Mc	5 6.1	19.7
358551 2007 TC_{157}	17.1	X	79.61526	335.70086	346.85509	4.64445	0.3131370	0.29585509	2.23	1.53	2.93	Mc	—	—
358604 2007 VQ_{3}	16.5	X	4.02494	153.03314	176.50984	9.16809	0.3166921	0.27815427	2.32	1.59	3.06	Mc	11 1.1	18.0
358629 2007 VN_{166}	17.2	X	44.83362	234.21625	76.58116	6.41874	0.3064609	0.28223954	2.30	1.60	3.01	Mc	12 4.6	20.2
359003 2008 UY_{4}	16.6	X	134.11621	251.77013	215.53774	23.06141	0.3485051	0.26805998	2.38	1.55	3.21	Mc	6 8.8	21.1
359020 2008 UP_{323}	18.0	X	11.07927	54.74994	276.64320	5.60932	0.2587976	0.30340058	2.19	1.63	2.76	Mc	11 10.3	19.8
359401 2010 JB_{40}	18.0	X	119.32896	243.88013	47.72980	3.10716	0.2888978	0.30325372	2.19	1.56	2.83	Mc	—	—
360200 1997 UF_{8}	15.9	X	265.82631	285.47736	13.53329	28.93896	0.4353721	0.23499553	2.60	1.47	3.73	Mc	2 25.9	21.3
360209 1998 WJ_{7}	18.5	X	42.60337	90.21030	51.83359	8.20023	0.3143450	0.36074579	1.95	1.34	2.57	Mc	—	—
360211 1999 CS_{45}	16.8	X	5.15319	329.31607	133.99688	7.41552	0.3996558	0.21878862	2.73	1.64	3.82	Mc	—	—
360221 1999 TX_{34}	17.7	X	17.59899	303.58887	9.32139	8.19919	0.4383361	0.27048321	2.37	1.33	3.41	Mc	11 19.8	20.3
360247 2000 GH_{14}	17.7	X	155.45035	213.04957	39.40612	3.13646	0.2587188	0.30344066	2.19	1.63	2.76	Mc	12 20.8	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
360249 2000 GQ_{127}	16.5	X	133.45729	300.87840	16.62220	46.45194	0.3949326	0.30530235	2.18	1.32	3.05	Mc	—	—
360280 2000 UH_{16}	15.9	X	0.87408	301.68028	61.40546	24.22060	0.3141776	0.28371494	2.29	1.57	3.01	Mc	12 12.9	17.9
360337 2001 UR_{1}	15.5	X	256.79991	267.68693	59.71984	27.41929	0.4101283	0.22986463	2.64	1.56	3.72	Mc	3 28.3	21.0
360361 2002 AQ_{4}	16.9	X	199.30743	330.92518	115.52050	25.63779	0.3013781	0.28051126	2.31	1.61	3.01	Mc	6 29.6	21.2
360436 2002 JE_{70}	17.6	X	41.28468	174.69548	106.86754	6.50191	0.3791321	0.26696943	2.39	1.48	3.29	Mc	11 3.3	20.8
360491 2002 VB_{92}	17.0	X	262.98871	258.97285	224.40705	36.87663	0.3399600	0.31037369	2.16	1.43	2.89	Mc	10 7.4	20.0
360509 2003 OD_{3}	17.1	X	41.36903	188.64055	151.86379	11.48500	0.2894126	0.28210506	2.30	1.64	2.97	Mc	—	—
360521 2003 QD_{62}	17.1	X	322.04365	308.00770	40.03367	4.52955	0.3319123	0.26961107	2.37	1.59	3.16	Mc	6 25.5	18.7
360557 2003 SW_{386}	18.0	X	67.68170	121.50497	153.47701	5.34680	0.2969725	0.27864284	2.32	1.63	3.01	Mc	11 11.8	21.6
360563 2003 UM_{12}	18.7	X	72.91901	296.26414	13.27089	1.20079	0.4122559	0.28341163	2.30	1.35	3.24	Mc	—	—
360642 2004 HM_{50}	17.0	X	264.43486	104.08061	181.41178	6.85740	0.4482703	0.21660008	2.75	1.52	3.98	Mc	1 26.4	22.3
360643 2004 HY_{53}	16.9	X	129.05843	334.12345	353.98458	6.32636	0.2457373	0.31991376	2.12	1.60	2.64	Mc	—	—
360658 2004 RS_{54}	17.7	X	108.29709	174.67773	154.70598	5.72320	0.2678349	0.30865543	2.17	1.59	2.75	Mc	—	—
360690 2004 SV_{20}	17.5	X	167.28836	290.22670	6.85314	6.77954	0.2523456	0.31384833	2.14	1.60	2.69	Mc	—	—
360698 2004 TP_{12}	17.7	X	50.32336	96.83096	224.58464	24.78432	0.1587762	0.41173864	1.79	1.51	2.07	Mc	12 25.7	20.3
360829 2005 LD_{31}	16.3	X	233.00510	118.34596	186.70449	16.40961	0.3992555	0.22263824	2.70	1.62	3.77	Mc	1 31.1	21.9
361094 2006 CJ_{60}	18.8	X	284.84678	328.22083	164.63950	5.15564	0.1284583	0.43232764	1.73	1.51	1.95	Mc	—	—
361537 2007 JH_{16}	18.1	X	59.09181	200.43027	115.11501	29.17550	0.1204052	0.51367835	1.54	1.36	1.73	Mc	—	—
361539 2007 KN_{3}	17.8	X	54.64339	229.67524	107.81656	6.00893	0.3267856	0.30719750	2.18	1.46	2.89	Mc	—	—
361548 2007 PS_{42}	17.8	X	70.97152	179.58025	147.47457	6.57929	0.2771188	0.29707740	2.22	1.61	2.84	Mc	—	—
361565 2007 RB_{55}	16.9	X	39.25311	285.39100	188.55914	28.32517	0.3616566	0.23586355	2.59	1.66	3.53	Mc	1 3.7	19.2
361586 2007 RB_{240}	17.5	X	59.75991	271.96357	54.43043	8.00882	0.2604099	0.29402566	2.24	1.66	2.82	Mc	—	—
361809 2008 CD_{48}	16.7	X	332.83462	313.65873	166.31942	13.95647	0.4287755	0.21374396	2.77	1.58	3.96	Mc	—	—
361861 2008 ED_{69}	17.0	X	226.59262	173.26029	149.52192	36.35604	0.7394937	0.19826364	2.91	0.76	5.07	Jc	2 15.7	23.6
362047 2009 BG_{14}	16.7	X	130.55147	294.87679	263.24213	22.44829	0.3041922	0.28357193	2.29	1.60	2.99	Mc	9 15.2	21.3
362352 2010 MW_{87}	17.9	X	50.65591	229.80512	89.67226	4.45658	0.3200432	0.28004494	2.31	1.57	3.05	Mc	12 22.3	21.1
362483 2010 SE_{34}	16.9	X	86.67280	270.23865	9.90749	6.76140	0.2835244	0.27913146	2.32	1.66	2.98	Mc	11 29.8	20.9
362925 2012 DX_{30}	17.1	X	123.69771	274.41103	187.29508	27.45415	0.3965328	0.23452736	2.60	1.57	3.64	Mc	5 31.8	22.2
363012 1988 PH_{4}	16.6	X	301.47877	162.56421	180.08566	9.45882	0.4467368	0.23613767	2.59	1.43	3.75	Mc	4 30.0	20.4
363019 1996 TD_{8}	16.1	X	192.35522	171.78472	212.33430	15.06527	0.3943165	0.22130347	2.71	1.64	3.77	Mc	4 10.1	21.4
363080 2000 QY_{129}	16.1	X	52.87445	148.16192	155.63155	17.47151	0.4368275	0.19617569	2.93	1.65	4.21	Mc	12 8.9	21.1
363088 2000 SC_{26}	17.9	X	53.10939	119.43868	225.12275	8.84893	0.2631007	0.29109753	2.25	1.66	2.85	Mc	—	—
363091 2000 SF_{102}	18.0	X	47.08206	109.31956	228.84497	1.39405	0.3243183	0.28913955	2.26	1.53	3.00	Mc	—	—
363135 2001 QQ_{199}	12.7	X	210.44376	193.40024	213.00212	42.56063	0.4275486	0.08019735	5.33	3.05	7.60	Jc	5 17.3	21.4
363193 2001 UC_{10}	18.5	X	167.63110	214.78419	95.74612	1.77226	0.2372399	0.31509063	2.14	1.63	2.65	Mc	—	—
363205 2001 US_{151}	17.0	X	266.86564	133.01044	221.59056	4.39299	0.3676114	0.23421349	2.61	1.65	3.56	Mc	4 21.8	21.5
363218 2001 VM_{75}	16.4	X	206.21040	227.79149	231.99622	22.88513	0.3386088	0.28115147	2.31	1.53	3.09	Mc	7 12.1	21.1
363221 2001 VX_{81}	17.0	X	145.04786	275.62763	239.17664	20.41994	0.3599970	0.27855999	2.32	1.49	3.16	Mc	8 7.4	21.8
363223 2001 VO_{112}	18.1	X	46.17025	55.41977	308.43708	2.63264	0.3026396	0.30335652	2.19	1.53	2.86	Mc	—	—
363226 2001 WQ_{1}	18.5	X	115.53925	273.72381	52.68144	2.32856	0.2702013	0.30897670	2.17	1.58	2.75	Mc	—	—
363237 2001 YX	16.3	X	290.42816	83.42735	289.32325	27.25160	0.3627778	0.23473793	2.60	1.66	3.55	Mc	6 7.9	20.3
363300 2002 LF_{40}	17.3	X	74.86904	184.47815	119.31548	9.48379	0.2965613	0.27292914	2.35	1.66	3.05	Mc	12 20.9	21.3
363368 2002 TJ_{52}	16.9	X	215.37997	131.67407	231.54027	5.79548	0.3654852	0.23969362	2.57	1.63	3.50	Mc	3 28.3	21.8
363369 2002 TU_{53}	16.7	X	308.59292	134.41414	225.73541	11.26522	0.3425896	0.25255704	2.48	1.63	3.33	Mc	6 15.5	19.4
363402 2003 MF_{3}	15.8	X	177.80441	244.61993	83.43542	15.23228	0.4400324	0.19409630	2.95	1.65	4.25	Mc	2 6.1	21.8
363403 2003 OY_{7}	17.9	X	44.32013	147.08976	192.24975	3.94946	0.2798300	0.28398762	2.29	1.65	2.93	Mc	—	—
363407 2003 QY_{1}	18.2	X	85.94238	136.98818	163.15322	3.63984	0.3034710	0.28600084	2.28	1.59	2.97	Mc	12 26.5	22.1
363421 2003 RG_{8}	17.1	X	96.95324	99.74047	213.20053	20.26884	0.3199222	0.28777872	2.27	1.55	3.00	Mc	—	—
363438 2003 SY_{105}	17.4	X	51.27645	355.04053	321.39324	2.99242	0.2807226	0.28038725	2.31	1.66	2.96	Mc	12 14.6	20.6
363491 2003 TP	17.8	X	63.71841	120.42712	214.61698	24.10690	0.3226096	0.28353925	2.29	1.55	3.04	Mc	—	—
363548 2003 WA_{13}	17.4	X	40.84452	291.77628	47.17236	6.50580	0.2868185	0.27776346	2.33	1.66	2.99	Mc	—	—
363560 2003 YC	16.7	X	30.69048	301.15886	132.61604	24.58640	0.3166003	0.28565675	2.28	1.56	3.01	Mc	—	—
363630 2004 RO_{139}	18.4	X	125.83907	188.03202	147.62281	2.27195	0.2383753	0.31225324	2.15	1.64	2.66	Mc	—	—
363714 2004 VT_{16}	18.4	X	127.85552	68.25534	260.97170	4.33355	0.3812672	0.30949631	2.16	1.34	2.99	Mc	—	—
363792 2005 JN_{121}	18.9	X	288.48385	220.86254	95.02261	4.48733	0.2175436	0.36396828	1.94	1.52	2.37	Mc	3 30.2	21.2
363802 2005 LT_{12}	17.3	X	45.81592	56.58676	213.71532	21.42780	0.2746957	0.37525096	1.90	1.38	2.43	Mc	10 19.8	19.3
363829 2005 PQ_{6}	16.1	X	272.03641	239.34889	116.02129	31.63446	0.3779024	0.23524587	2.60	1.62	3.58	Mc	5 10.3	21.1
363864 2005 RT_{24}	16.7	X	235.10837	286.04188	84.42839	8.83217	0.4746696	0.22764705	2.66	1.40	3.92	Mc	4 19.3	22.1
364067 2005 XK_{66}	16.1	X	301.88736	235.29375	124.79778	14.75431	0.3922614	0.23613280	2.59	1.58	3.61	Mc	6 1.6	19.8
364071 2005 YX_{1}	15.6	X	296.90071	272.23184	74.45623	27.41971	0.4719565	0.23280323	2.62	1.38	3.85	Mc	5 6.2	20.0
364141 2006 DC_{42}	18.6	X	342.90906	160.36327	276.45509	5.96408	0.0984556	0.43316002	1.73	1.56	1.90	Mc	—	—
364142 2006 DN_{62}	17.6	X	162.14819	43.97490	189.62139	7.34073	0.2981508	0.29410058	2.24	1.57	2.91	Mc	12 1.6	21.7
364205 2006 QQ_{104}	17.3	X	116.64923	43.29985	207.39489	8.33327	0.3412688	0.27852853	2.32	1.53	3.11	Mc	11 20.8	21.7
364273 2006 TW_{48}	18.1	X	15.44307	109.48846	214.46231	9.32733	0.3282326	0.26329606	2.41	1.62	3.20	Mc	11 13.2	20.2
364566 2007 PM_{8}	18.1	X	103.29275	109.46627	210.05082	6.39665	0.2507750	0.30450062	2.19	1.64	2.74	Mc	—	—
364639 2007 TY_{109}	17.4	X	126.28572	263.30709	58.18640	7.31672	0.2528192	0.30362985	2.19	1.64	2.75	Mc	—	—
365179 2009 FP_{4}	16.7	X	21.96006	73.48973	35.15162	28.17330	0.3868845	0.23354426	2.61	1.60	3.62	Mc	—	—
365224 2009 HC_{88}	16.1	X	294.90857	170.05710	166.15647	23.81024	0.4732924	0.23282721	2.62	1.38	3.86	Mc	4 15.2	20.6
365246 2009 NE	15.9	X	244.69251	198.87583	230.41274	35.01759	0.8645157	0.22524181	2.68	0.36	4.99	Jc	6 6.2	22.4
365426 2010 KC_{61}	17.7	X	116.61944	261.47520	62.25495	7.26808	0.3057825	0.29841513	2.22	1.54	2.90	Mc	—	—
365435 2010 LA_{104}	17.7	X	155.35032	175.06396	116.30784	9.06381	0.2459229	0.30808164	2.17	1.64	2.71	Mc	—	—
365436 2010 LZ_{110}	18.6	X	131.95409	182.20626	116.14672	8.27442	0.2479187	0.30276083	2.20	1.65	2.74	Mc	—	—
365756 ISON	14.3	X	260.25341	268.39569	219.97833	19.98018	0.5239744	0.07183190	5.73	2.73	8.73	Jc	8 31.6	23.0
365937 2012 AB_{1}	16.6	X	36.99962	229.75425	252.67758	22.57712	0.2527451	0.32094782	2.11	1.58	2.65	Mc	—	—
366343 1994 LC_{1}	16.6	X	240.42595	318.04414	14.47607	12.54783	0.5173160	0.20696204	2.83	1.37	4.29	Mc	3 10.0	22.4
366351 1999 TO_{11}	18.0	X	54.48913	342.35910	23.40838	4.71685	0.3277783	0.27768934	2.33	1.56	3.09	Mc	—	—
366366 2000 PR_{9}	16.5	X	87.55946	115.14482	289.61670	21.94073	0.4018650	0.29718010	2.22	1.33	3.12	Mc	1 24.2	17.8
366387 2001 CT_{20}	16.0	X	250.80234	49.09534	113.12688	27.03143	0.4916538	0.17903766	3.12	1.58	4.65	Mc	10 27.6	21.8
366415 2001 TS_{110}	17.6	X	297.61627	139.40002	238.21558	5.01345	0.3509717	0.24070891	2.56	1.66	3.46	Mc	6 22.9	20.9
366430 2001 VH_{86}	17.0	X	324.82660	98.92922	239.48081	8.71998	0.4019319	0.24067466	2.56	1.53	3.59	Mc	6 1.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
366431 2001 VB_{99}	16.0	X	258.34808	287.78971	111.90243	29.28450	0.3999819	0.23405774	2.61	1.56	3.65	Mc	6 12.6	20.9
366450 2002 AU_{11}	15.8	X	266.98330	92.11754	298.25417	26.78064	0.4074215	0.23339874	2.61	1.55	3.68	Mc	6 1.9	20.7
366451 2002 AN_{18}	16.6	X	274.51462	283.24997	133.47855	25.21850	0.4280064	0.23580695	2.59	1.48	3.71	Mc	7 9.4	20.9
366455 2002 AZ_{126}	16.7	X	277.81680	105.23179	270.62057	4.26787	0.3667121	0.23382841	2.61	1.65	3.57	Mc	5 27.2	20.7
366597 2002 VU_{107}	17.8	X	0.03257	99.18707	278.48991	5.53316	0.3163669	0.26146116	2.42	1.66	3.19	Mc	12 29.8	19.9
366599 2002 XL_{8}	17.0	X	61.91212	80.55862	301.30073	4.82998	0.3288536	0.27110656	2.36	1.59	3.14	Mc	—	—
366616 2003 NP_{4}	16.5	X	93.16747	85.28776	253.88720	20.82427	0.3056073	0.28931137	2.26	1.57	2.96	Mc	—	—
366617 2003 OS_{6}	17.7	X	193.52797	21.05717	187.35751	5.76129	0.4059048	0.29633658	2.23	1.32	3.13	Mc	11 17.7	21.8
366686 2003 US_{275}	17.9	X	96.09714	315.12458	20.24271	3.64239	0.2704332	0.28741319	2.27	1.66	2.89	Mc	—	—
366709 2003 WV_{136}	16.1	X	159.73038	245.08094	104.20085	2.58345	0.4542400	0.18617859	3.04	1.66	4.42	Mc	2 18.8	21.9
366736 2004 EH_{37}	16.1	X	77.86182	40.10726	68.16242	11.23727	0.3912680	0.23341369	2.61	1.59	3.63	Mc	4 29.1	19.3
366795 2004 VA_{61}	18.2	X	167.61748	130.71440	199.68443	5.43097	0.3158073	0.31511879	2.14	1.46	2.81	Mc	1 10.1	21.6
366839 2005 PF	17.2	X	317.95129	248.50355	101.62393	11.32540	0.4615127	0.24104595	2.56	1.38	3.74	Mc	5 27.9	20.0
366945 2005 VL_{118}	16.8	X	299.68213	92.54060	287.86255	26.50474	0.4109732	0.23776539	2.58	1.52	3.64	Mc	6 22.5	20.3
366949 2005 WP_{1}	17.0	X	280.14424	97.74032	291.77710	26.73262	0.4024121	0.23558135	2.60	1.55	3.64	Mc	6 14.5	21.4
367073 2006 PZ_{19}	17.0	X	17.83933	221.75215	142.70101	9.40790	0.2980578	0.27159771	2.36	1.66	3.07	Mc	—	—
367251 2007 PN_{49}	18.9	X	214.17972	66.96879	240.65716	1.78063	0.2685343	0.32371363	2.10	1.54	2.66	Mc	1 14.8	22.5
367341 2008 DJ_{6}	17.1	X	90.50781	251.61409	144.62191	25.77502	0.2731179	0.29784885	2.22	1.61	2.83	Mc	—	—
367676 2010 JV_{81}	17.5	X	126.24259	145.58798	169.36802	7.41137	0.2604022	0.30064787	2.21	1.63	2.78	Mc	—	—
367708 2010 TV_{18}	17.8	X	127.79030	5.33383	340.79338	0.62412	0.2537588	0.30144638	2.20	1.64	2.76	Mc	—	—
368150 1992 DC	17.1	X	181.20897	155.31228	350.53601	10.47912	0.4577761	0.25157447	2.49	1.35	3.62	Mc	8 26.8	22.1
368153 1995 UX_{1}	17.3	X	334.82719	15.38675	14.01553	15.17096	0.4420555	0.22716736	2.66	1.48	3.84	Mc	10 16.8	17.1
368157 1998 RM_{44}	18.2	X	200.36221	346.22250	13.92558	6.44679	0.3441474	0.28385591	2.29	1.50	3.08	Mc	3 16.1	22.6
368160 1999 HW_{2}	16.1	X	76.36880	86.16748	180.01592	27.15965	0.4041904	0.23332150	2.61	1.56	3.67	Mc	11 14.3	21.1
368163 1999 RE_{198}	18.0	X	189.72298	133.55890	215.38804	8.31300	0.3002604	0.29514445	2.23	1.56	2.90	Mc	2 17.5	22.0
368188 2000 SZ_{72}	17.6	X	159.41917	320.53823	31.68067	4.89109	0.2696896	0.30425533	2.19	1.60	2.78	Mc	1 30.3	20.9
368194 2000 WO_{4}	17.5	X	142.17226	48.61867	292.41636	6.49696	0.2848487	0.30003990	2.21	1.58	2.84	Mc	—	—
368231 2001 UR_{16}	16.6	X	279.04188	79.64821	235.03272	26.85858	0.4082667	0.23187581	2.62	1.55	3.70	Mc	3 2.1	21.8
368254 2001 XE_{103}	15.7	X	302.66771	63.68247	264.10281	28.06760	0.3977478	0.23417993	2.61	1.57	3.64	Mc	4 7.8	20.2
368282 2002 NH_{7}	17.4	X	76.67524	138.67926	205.52329	5.51868	0.3111906	0.27406710	2.35	1.62	3.08	Mc	—	—
368284 2002 NH_{31}	17.0	X	43.09050	92.75532	261.49084	8.85087	0.3006067	0.26973064	2.37	1.66	3.09	Mc	—	—
368455 2003 QA_{46}	17.3	X	154.38476	0.23716	340.31016	4.92149	0.2814606	0.30050768	2.21	1.59	2.83	Mc	1 11.8	20.5
368475 2003 SY_{223}	16.4	X	85.62623	53.43116	27.54656	18.66249	0.3275758	0.29217968	2.25	1.51	2.99	Mc	3 18.8	18.7
368477 2003 SX_{253}	16.9	X	142.71727	104.55007	216.88327	3.24422	0.3248052	0.29447244	2.24	1.51	2.96	Mc	—	—
368481 2003 SG_{291}	16.9	X	158.50545	95.98601	212.31984	6.51721	0.2748457	0.29429264	2.24	1.62	2.85	Mc	—	—
368531 2003 WN_{82}	17.3	X	86.04338	189.91446	182.92005	10.57544	0.3875931	0.28964021	2.26	1.39	3.14	Mc	—	—
368599 2004 RA_{160}	16.1	X	226.12245	61.14578	321.30674	8.46325	0.4193756	0.21433475	2.77	1.61	3.92	Mc	4 23.5	21.7
368810 2005 YE_{181}	16.7	X	266.82476	93.90785	319.35694	25.67739	0.4012737	0.23313605	2.61	1.57	3.66	Mc	7 6.1	21.3
368812 2006 AA_{11}	16.2	X	301.80168	14.04444	24.33580	6.79792	0.3757087	0.23524158	2.60	1.62	3.58	Mc	7 27.1	19.1
368818 2006 BK_{12}	16.4	X	249.88948	142.86346	267.79574	7.42396	0.4194684	0.22851402	2.65	1.54	3.76	Mc	6 12.9	21.3
368856 2006 HG_{119}	17.6	X	144.18488	179.38515	174.81413	5.69828	0.2589775	0.30550222	2.18	1.62	2.75	Mc	1 13.4	20.5
368866 2006 QL_{25}	17.1	X	92.30856	276.18935	343.55646	11.63694	0.3169755	0.27347312	2.35	1.61	3.10	Mc	11 8.3	21.4
369272 2009 QA_{7}	17.3	X	292.84544	319.45238	333.34966	8.74984	0.3654246	0.31089778	2.16	1.37	2.95	Mc	2 19.9	20.8
369295 2009 SH_{18}	17.4	X	302.09799	294.18022	345.71508	8.42542	0.3613269	0.30913624	2.17	1.38	2.95	Mc	2 13.5	20.9
369406 2009 WO_{25}	16.7	X	240.24654	79.08069	353.09976	10.42129	0.4452077	0.22630136	2.67	1.48	3.85	Mc	7 2.2	21.9
369461 2010 RC_{68}	18.2	X	223.94441	36.33520	240.59707	4.20334	0.2570252	0.31841927	2.12	1.58	2.67	Mc	—	—
369463 2010 RA_{112}	18.1	X	201.34960	277.17044	12.48620	5.12539	0.2375736	0.31247848	2.15	1.64	2.66	Mc	—	—
369486 2010 UQ_{9}	18.2	X	203.65559	276.99138	33.40209	2.29843	0.2691807	0.31436703	2.14	1.57	2.72	Mc	1 12.3	21.8
369499 2010 VY_{16}	18.2	X	153.41272	37.60874	300.97093	3.78200	0.2362897	0.30731054	2.17	1.66	2.69	Mc	—	—
369539 2011 AP_{5}	16.6	X	76.86337	106.61281	295.72566	22.50780	0.2725858	0.28993070	2.26	1.64	2.88	Mc	—	—
369550 2011 AZ_{47}	17.2	X	38.41947	286.73201	135.56410	22.75901	0.2906253	0.28342297	2.30	1.63	2.96	Mc	—	—
369566 2011 BH_{19}	16.7	X	84.95557	51.62079	345.10426	24.08594	0.2704926	0.28969736	2.26	1.65	2.87	Mc	—	—
369883 2012 QR_{18}	17.5	X	219.92648	211.34633	125.05561	8.72187	0.2764568	0.29059075	2.26	1.63	2.88	Mc	2 28.6	21.5
369955 2013 MK_{3}	17.1	X	109.12367	230.83864	82.93443	6.34805	0.2936023	0.28568611	2.28	1.61	2.95	Mc	—	—
369993 1999 RO_{37}	17.5	X	229.48816	269.31192	144.24467	20.04159	0.3145316	0.34939551	2.00	1.37	2.62	Mc	6 10.3	21.3
369994 1999 RQ_{55}	17.5	X	89.45148	18.15127	349.09760	5.55591	0.3270109	0.28404314	2.29	1.54	3.04	Mc	—	—
369995 1999 RV_{195}	15.7	X	250.72700	124.28374	253.03556	8.10679	0.4016977	0.21429952	2.77	1.65	3.88	Mc	5 5.3	20.9
370027 2000 PK_{29}	18.1	X	190.67600	253.14320	31.75359	4.21791	0.2983331	0.30529571	2.18	1.53	2.84	Mc	—	—
370123 2001 VP_{2}	16.2	X	276.19511	284.77112	168.48195	27.60130	0.3473496	0.24076411	2.56	1.67	3.45	Mc	9 6.9	19.5
370178 2002 CO_{12}	16.8	X	260.43398	293.73468	138.42295	26.97650	0.3885065	0.23526869	2.60	1.59	3.61	Mc	7 20.2	21.3
370181 2002 CX_{46}	16.7	X	284.62520	109.66081	338.66454	28.03093	0.4055052	0.23840442	2.58	1.53	3.62	Mc	9 1.8	20.0
370199 2002 DG_{2}	15.9	X	295.38941	64.65340	344.04084	29.10855	0.3648829	0.23443736	2.60	1.65	3.56	Mc	8 12.5	19.3
370212 2002 GG_{148}	17.2	X	255.12775	101.15158	12.98786	28.42431	0.3959553	0.23596314	2.59	1.57	3.62	Mc	9 16.1	21.5
370482 2003 QA_{27}	17.9	X	169.40785	94.80607	227.25782	1.97905	0.2451320	0.30079557	2.21	1.67	2.75	Mc	—	—
370491 2003 SE	17.5	X	182.19809	104.81246	169.65696	5.77943	0.2829240	0.29497240	2.24	1.60	2.87	Mc	—	—
370577 2003 UG_{270}	16.4	X	59.82991	94.26271	323.98345	20.57830	0.3065907	0.28747257	2.27	1.58	2.97	Mc	—	—
370633 2003 YK_{123}	17.8	X	71.59684	96.25459	299.94016	2.55645	0.2757143	0.28611058	2.28	1.65	2.91	Mc	—	—
370651 2004 BX_{102}	16.2	X	32.01289	85.79091	354.14117	19.36850	0.4117478	0.28272621	2.30	1.35	3.25	Mc	—	—
370723 2004 RC_{57}	18.1	X	310.71928	167.76538	138.75272	5.95185	0.2836814	0.28088323	2.31	1.65	2.96	Mc	4 13.2	20.9
370785 2004 SS_{55}	16.2	X	211.09778	234.32286	187.52388	26.30091	0.4285370	0.21279874	2.78	1.59	3.97	Mc	6 4.1	22.1
370829 2004 VL_{55}	18.6	X	50.97590	197.97187	248.66443	24.66137	0.4440245	0.24860176	2.50	1.39	3.62	Mc	—	—
370866 2005 EB_{37}	16.9	X	10.63543	68.57878	174.34812	16.08803	0.4801210	0.18539503	3.05	1.58	4.51	Mc	6 19.2	18.3
371092 2005 UA_{459}	17.2	X	260.33280	332.41883	83.86922	8.21880	0.3646672	0.23409375	2.61	1.66	3.56	Mc	7 2.4	21.5
371467 2006 SF_{409}	18.0	X	340.47935	308.47366	122.30730	6.04128	0.3323928	0.26725953	2.39	1.59	3.18	Mc	—	—
371513 2006 UP_{82}	17.2	X	50.86024	337.26547	352.58269	4.49409	0.2964854	0.27081515	2.37	1.66	3.07	Mc	12 31.6	20.8
371522 2006 UG_{185}	13.9	X	182.03216	301.69479	131.75580	20.04643	0.1265000	0.09361035	4.80	4.20	5.41	Jc	6 7.2	21.2
371527 2006 UB_{216}	17.3	X	83.09858	265.60232	26.80631	7.11649	0.3254805	0.27213791	2.36	1.59	3.13	Mc	12 14.4	21.4
371790 2007 ON_{3}	18.6	X	224.49920	294.70782	51.13364	2.80673	0.2046994	0.33116298	2.07	1.65	2.49	Mc	3 11.9	21.7
371797 2007 QQ_{12}	16.8	X	84.55641	250.47051	143.81227	29.46031	0.3963986	0.23305803	2.62	1.58	3.65	Mc	1 26.2	19.6
371827 2007 UZ_{132}	18.7	X	171.46695	119.02164	212.62284	4.38290	0.2785587	0.31142594	2.16	1.56	2.76	Mc	1 12.3	22.1

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
372325 2009 AV_{15}	17.7	X	87.75610	173.26563	341.99849	7.01577	0.1917911	0.34258233	2.02	1.63	2.41	Mc	6 4.5	19.8
372342 2009 DF_{97}	17.3	X	93.27110	262.43583	0.51457	9.29774	0.3653153	0.27280564	2.35	1.49	3.21	Mc	11 17.3	21.7
372369 2009 LC	16.0	X	13.63712	103.19360	264.13697	20.65239	0.3195633	0.25736444	2.45	1.67	3.23	Mc	—	—
372789 2010 PK_{26}	17.6	X	223.10284	241.28494	158.48681	8.33159	0.1964950	0.34302865	2.02	1.62	2.42	Mc	5 21.9	20.7
372858 2010 VB_{171}	17.7	X	185.46282	297.98875	57.30459	4.78663	0.2272116	0.31459187	2.14	1.65	2.63	Mc	2 21.9	21.1
372876 2010 WG_{60}	16.9	X	122.34255	88.80922	294.03784	20.78495	0.2893739	0.30106322	2.20	1.57	2.84	Mc	1 28.4	19.5
373416 1998 QG_{1}	17.7	X	122.17577	54.96110	196.80715	6.40588	0.4428365	0.26908453	2.38	1.32	3.43	Mc	11 26.6	22.5
373425 1999 MU_{1}	17.2	X	140.30356	27.49870	267.85489	13.66503	0.3448542	0.28633854	2.28	1.49	3.07	Mc	—	—
373456 2000 EE_{62}	16.4	X	39.35282	251.57847	357.81648	28.78855	0.3771267	0.24068816	2.56	1.59	3.52	Mc	9 15.4	19.2
373463 2000 PK_{17}	18.0	X	153.43895	33.85532	317.27772	4.83562	0.2573683	0.30569025	2.18	1.62	2.74	Mc	1 20.4	21.0
373469 2000 SO_{42}	16.9	X	336.03218	109.34515	172.28200	10.80954	0.4366614	0.22838643	2.65	1.49	3.81	Mc	3 26.1	19.7
373618 2002 FM	16.2	X	147.14777	245.13306	353.40025	22.60569	0.4709565	0.17812913	3.13	1.66	4.60	Mc	11 8.7	22.8
373825 2002 XD_{12}	17.6	X	257.62435	145.52592	273.99999	9.36695	0.2004166	0.35534221	1.97	1.58	2.37	Mc	7 23.7	20.0
373834 2002 XD_{113}	17.9	X	12.90532	40.74513	51.80481	2.96174	0.3167904	0.26814100	2.38	1.63	3.14	Mc	—	—
373883 2003 SB_{234}	17.7	X	181.15304	176.48348	112.40752	3.60954	0.2723524	0.29734312	2.22	1.62	2.83	Mc	—	—
373907 2003 UE_{63}	17.9	X	134.61022	244.34659	87.57303	4.99695	0.3179592	0.29491252	2.24	1.52	2.95	Mc	—	—
374684 2006 QD_{64}	17.6	X	158.75640	142.80267	168.33052	8.64291	0.2676514	0.29149797	2.25	1.65	2.86	Mc	—	—
374777 2006 TZ_{1}	18.0	X	17.38623	91.00539	13.00143	7.99567	0.2880863	0.28017296	2.31	1.65	2.98	Mc	—	—
374849 2006 VO_{1}	17.8	X	45.98938	213.30409	199.34371	4.18074	0.3105840	0.27702153	2.33	1.61	3.05	Mc	—	—
374907 2006 XE_{1}	17.6	X	98.84094	336.36708	58.52529	21.15626	0.1447128	0.41656198	1.78	1.52	2.03	Mc	—	—
375129 2007 VM_{250}	18.3	X	174.38164	29.83114	299.28428	5.96332	0.2364631	0.31272006	2.15	1.64	2.66	Mc	1 8.9	21.3
376070 2010 NA_{40}	18.3	X	235.80213	327.88565	309.05639	2.86480	0.2631832	0.31789089	2.13	1.57	2.69	Mc	—	—
376246 2011 ES_{77}	16.8	X	199.69920	348.83199	144.59940	12.60183	0.3764634	0.23684443	2.59	1.61	3.56	Mc	8 22.3	21.8
376571 2013 PA_{14}	18.0	X	123.22633	70.34314	303.75223	3.66328	0.2503766	0.30066716	2.21	1.65	2.76	Mc	1 15.2	20.4
376713 1995 WQ_{5}	16.7	X	62.70682	283.94327	88.69562	21.09003	0.4134367	0.27392556	2.35	1.38	3.32	Mc	—	—
376720 1997 CO_{5}	17.0	X	288.70873	124.37638	317.39535	19.12605	0.4791992	0.23159399	2.63	1.37	3.88	Mc	8 15.8	20.3
376721 1997 GR_{30}	18.0	X	252.70591	89.12115	191.42266	4.79623	0.2688100	0.31983080	2.12	1.55	2.69	Mc	1 10.1	21.6
376763 1999 XB_{9}	17.0	X	119.45510	312.74385	82.17158	23.66048	0.2950699	0.28691412	2.28	1.60	2.95	Mc	2 27.2	20.6
376764 1999 XS_{16}	15.4	X	62.81248	99.23254	77.34209	10.07460	0.5359219	0.19521601	2.94	1.37	4.52	Mc	7 30.4	19.9
376771 2000 DH_{17}	17.3	X	40.23961	67.03418	158.06657	11.05806	0.3059796	0.28662595	2.28	1.58	2.98	Mc	7 25.7	19.1
376779 2000 LU_{25}	15.8	X	332.03606	94.23715	238.41670	32.87187	0.4409563	0.23373648	2.61	1.46	3.76	Mc	5 30.4	17.8
376784 2000 QW_{144}	18.0	X	37.53560	334.94645	6.45141	5.85313	0.2927832	0.28821394	2.27	1.61	2.93	Mc	—	—
376786 2000 QO_{194}	16.6	X	17.07978	293.66191	132.45095	10.53908	0.5006912	0.19711399	2.92	1.46	4.39	Mc	—	—
376789 2000 RP_{40}	17.6	X	170.69551	38.75390	286.92180	6.13404	0.2544043	0.30397550	2.19	1.63	2.75	Mc	1 4.2	20.9
376794 2000 SN_{125}	17.9	X	44.78577	316.80162	56.74628	5.60134	0.3310129	0.29030140	2.26	1.51	3.01	Mc	—	—
376811 2000 WU_{124}	16.6	X	262.65919	64.95081	63.60523	29.32947	0.3865957	0.23011937	2.64	1.62	3.66	Mc	10 17.9	20.9
376817 2001 AT_{43}	16.4	X	165.14483	105.90024	284.50787	21.58868	0.2958686	0.30328762	2.19	1.54	2.84	Mc	3 11.2	20.6
376818 2001 AG_{54}	17.6	X	39.90764	6.11773	103.02358	8.56554	0.2765769	0.29294793	2.25	1.62	2.87	Mc	—	—
376830 2001 MJ_{11}	17.7	X	25.43471	217.91976	94.62868	8.64905	0.2671770	0.30079336	2.21	1.62	2.80	Mc	11 12.5	20.0
376833 2001 OM_{25}	18.2	X	108.23062	175.79189	144.71508	4.90692	0.2417662	0.31264395	2.15	1.63	2.67	Mc	—	—
376836 2001 QD_{61}	16.5	X	242.45287	253.65913	134.85385	29.40878	0.3721469	0.23419351	2.61	1.64	3.58	Mc	5 24.6	21.9
376837 2001 QA_{114}	16.6	X	213.95520	284.64469	125.80971	28.48473	0.4196097	0.23097662	2.63	1.53	3.73	Mc	5 30.9	22.3
376842 2001 QM_{259}	16.7	X	338.72860	281.36684	337.77952	23.48097	0.2892248	0.28641314	2.28	1.62	2.94	Mc	3 8.9	18.9
376861 2001 TH_{7}	17.2	X	295.84877	285.10790	62.97914	7.64022	0.3555307	0.24016778	2.56	1.65	3.47	Mc	5 11.9	20.8
376876 2001 VC_{56}	17.7	X	232.22049	84.63704	283.88289	4.09744	0.2826528	0.28028498	2.31	1.66	2.97	Mc	4 14.3	21.9
376891 2001 XF_{104}	16.2	X	212.06637	265.30268	260.65137	10.06705	0.3702758	0.24016946	2.56	1.61	3.51	Mc	10 3.4	21.0
376944 2002 DP_{3}	16.5	X	279.79565	355.39011	67.51901	10.67807	0.4899214	0.23622773	2.59	1.32	3.86	Mc	7 14.4	20.7
376950 2002 ER_{97}	17.3	X	148.69784	53.12033	73.44805	2.89486	0.3895499	0.22262357	2.70	1.65	3.75	Mc	7 15.4	22.4
376955 2002 GR_{3}	16.6	X	273.18690	288.28572	204.50314	27.62483	0.4339222	0.23951829	2.57	1.45	3.68	Mc	10 11.9	20.1
376964 2002 HD	16.9	X	260.80447	83.76647	51.60902	28.42196	0.3899848	0.23705074	2.59	1.58	3.59	Mc	10 20.1	20.9
376968 2002 JJ_{101}	17.2	X	121.70769	140.97359	156.37876	14.12558	0.3174647	0.27928728	2.32	1.58	3.05	Mc	—	—
376971 2002 KA_{1}	17.6	X	354.79265	330.58790	335.78593	5.34597	0.3106527	0.31477011	2.14	1.48	2.81	Mc	8 15.2	17.1
376995 2002 PP_{138}	17.4	X	163.14270	73.40457	245.34328	8.56350	0.2777273	0.28423830	2.29	1.65	2.93	Mc	—	—
377021 2002 RW_{98}	16.5	X	104.92313	358.48827	5.43182	11.06804	0.3887907	0.22474399	2.68	1.64	3.72	Mc	1 19.3	20.3
377052 2002 TB_{142}	16.5	X	102.28875	312.23143	94.04560	11.38187	0.3775682	0.22688768	2.66	1.66	3.67	Mc	3 9.9	20.5
377114 2002 XL_{29}	15.9	X	301.16198	87.18735	82.79583	22.40552	0.3161362	0.26537669	2.40	1.64	3.16	Mc	—	—
377127 2003 EV_{52}	17.3	X	133.66978	241.63296	5.13525	29.18556	0.3645623	0.24121840	2.56	1.62	3.49	Mc	11 10.7	22.7
377134 2003 JJ_{16}	16.9	X	219.46058	66.63060	240.46530	22.55829	0.3241229	0.31104474	2.16	1.46	2.86	Mc	1 14.2	21.3
377145 2003 QM_{99}	17.2	X	12.39405	258.66532	155.36709	20.78129	0.3214056	0.28254662	2.30	1.56	3.04	Mc	—	—
377172 2003 US_{5}	17.6	X	38.80702	68.91872	328.64979	5.02307	0.2807277	0.28437632	2.29	1.65	2.93	Mc	—	—
377173 2003 UE_{7}	17.6	X	203.61498	250.26494	89.98197	7.48058	0.3230273	0.30696000	2.18	1.47	2.88	Mc	2 21.9	21.6
377204 2003 WM_{141}	16.3	X	37.64832	75.14446	79.05910	21.88038	0.3755250	0.29155419	2.25	1.41	3.10	Mc	3 20.7	17.6
377331 2004 OF_{10}	17.8	X	289.98665	259.86736	86.26540	6.18577	0.2833979	0.28327061	2.30	1.65	2.95	Mc	5 10.9	20.8
377463 2004 XE_{45}	16.7	X	201.32560	59.95625	81.19846	12.10070	0.4412404	0.21779360	2.74	1.53	3.94	Mc	9 3.5	22.3
377470 2004 XX_{161}	15.8	X	275.70932	330.96459	41.68633	10.18165	0.3919369	0.21931509	2.72	1.66	3.79	Mc	5 18.3	20.2
377603 2005 QW_{160}	18.3	X	336.58968	307.59526	100.96011	2.81993	0.3675257	0.24907106	2.50	1.58	3.42	Mc	12 22.9	18.9
377608 2005 RB_{34}	18.7	X	41.82109	151.56441	136.69948	9.82581	0.3948005	0.31268540	2.15	1.30	3.00	Mc	11 20.9	21.8
377789 2006 AV_{11}	17.2	X	330.54292	67.33309	276.72549	3.62107	0.3631595	0.23570028	2.60	1.65	3.54	Mc	7 5.1	18.5
377939 2006 HP_{58}	18.4	X	226.74847	302.33247	221.37374	19.44627	0.1222978	0.42319759	1.76	1.54	1.97	Mc	12 18.3	19.9
377949 2006 HP_{152}	17.9	X	231.35421	196.95501	126.84480	4.18720	0.2251760	0.31423310	2.14	1.66	2.63	Mc	2 18.6	21.3
377971 2006 LW_{6}	18.1	X	187.01087	156.76485	152.47483	4.15027	0.3069909	0.29851640	2.22	1.54	2.90	Mc	1 1.9	21.9
377973 2006 NF	17.6	X	253.75778	157.23836	120.01229	9.14815	0.2637145	0.30539850	2.18	1.61	2.76	Mc	1 9.5	21.3
377974 2006 OU_{2}	17.6	X	139.49504	213.92938	111.90337	8.66441	0.2686188	0.29211369	2.25	1.65	2.85	Mc	—	—
377998 2006 RZ_{83}	17.5	X	358.59571	272.86037	185.40262	20.85000	0.3022270	0.27709835	2.33	1.63	3.03	Mc	—	—
378009 2006 SG_{46}	17.7	X	93.76138	147.41379	192.87419	4.37007	0.2881763	0.28051850	2.31	1.65	2.98	Mc	—	—
378054 2006 TF_{60}	18.5	X	95.56775	112.61721	234.95186	6.04729	0.3064810	0.28065024	2.31	1.60	3.02	Mc	—	—
378056 2006 TM_{74}	17.8	X	140.15733	245.70324	76.85588	6.74590	0.2961630	0.28694650	2.28	1.60	2.95	Mc	—	—
378100 2006 UZ_{171}	17.9	X	74.27610	93.16157	222.60099	13.31522	0.3156469	0.27088337	2.37	1.62	3.11	Mc	—	—
378214 Sauron	17.7	X	322.08859	252.27217	266.34199	1.04469	0.3069786	0.26899013	2.38	1.65	3.11	Mc	—	—
378305 2007 FC_{1}	17.7	X	72.49728	223.42757	43.06021	28.13290	0.2739168	0.37072641	1.92	1.39	2.44	Mc	11 10.0	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
378532 2008 AP_{28}	16.5	X	18.04598	220.18142	151.55886	26.46142	0.4035901	0.27707146	2.33	1.39	3.27	Mc	—	—
378701 2008 NJ_{1}	18.1	X	24.50349	107.48009	279.07741	21.67247	0.2772416	0.39615043	1.84	1.33	2.35	Mc	—	—
378747 2008 RM_{77}	17.4	X	171.76806	359.34115	353.00137	6.09616	0.3517101	0.26650012	2.39	1.55	3.23	Mc	2 18.6	21.7
378810 2008 SG_{209}	18.7	X	79.40256	130.46912	167.83112	3.71260	0.2513946	0.31675776	2.13	1.60	2.67	Mc	12 20.2	22.1
378959 2008 UY_{190}	18.2	X	72.71798	261.83070	55.07588	5.93733	0.2533918	0.31545670	2.14	1.60	2.68	Mc	—	—
379139 2009 DS_{124}	17.6	X	200.48561	309.84260	351.77973	8.24695	0.2791474	0.30575352	2.18	1.57	2.79	Mc	1 1.5	21.4
379156 2009 QN_{8}	17.0	X	61.57445	129.42736	184.04013	11.36688	0.3514703	0.25944312	2.43	1.58	3.29	Mc	12 24.0	21.2
379317 2009 WM_{25}	16.6	X	169.56714	285.14375	90.25933	23.67256	0.3014097	0.28804542	2.27	1.59	2.96	Mc	3 22.9	21.1
379520 2010 OS_{23}	16.9	X	194.12157	206.81901	81.21032	13.71857	0.4990332	0.22338233	2.69	1.35	4.03	Mc	—	—
379772 2011 HK_{28}	18.3	X	25.55558	109.12418	162.76993	8.00001	0.2580859	0.30511140	2.19	1.62	2.75	Mc	9 4.7	19.5
379841 2011 UV_{173}	17.7	X	6.27308	250.41966	119.34752	7.53557	0.2531372	0.30104406	2.20	1.65	2.76	Mc	12 29.9	19.8
380008 2013 NT_{6}	16.5	X	92.27974	311.96585	16.96385	12.26693	0.3240565	0.28438974	2.29	1.55	3.03	Mc	—	—
380091 2013 SH_{57}	17.8	X	148.23888	90.28621	252.85192	6.40611	0.2541294	0.30086910	2.21	1.65	2.77	Mc	1 4.0	20.8
380125 1996 UC_{1}	18.2	X	10.58113	341.68624	26.28948	6.77953	0.3684195	0.27949828	2.32	1.46	3.17	Mc	—	—
380133 1998 UX_{24}	20.0	X	33.99835	16.56139	25.50451	14.11118	0.2856540	0.39627368	1.84	1.31	2.36	Mc	—	—
380152 1999 YO_{4}	16.5	X	79.53574	66.11146	343.01107	23.13533	0.3039097	0.28247260	2.30	1.60	3.00	Mc	1 8.1	18.6
380161 2000 LD_{16}	16.8	X	348.66335	59.97556	255.61629	5.95074	0.4696790	0.23405866	2.61	1.38	3.83	Mc	6 29.1	16.5
380163 2000 QG_{59}	16.9	X	336.56044	357.12334	7.85229	6.50055	0.3695367	0.23519303	2.60	1.64	3.56	Mc	9 12.3	17.6
380187 2000 WH_{2}	16.5	X	317.52104	65.20651	319.59182	28.40653	0.3767320	0.23131712	2.63	1.64	3.62	Mc	8 7.6	18.4
380198 2000 YZ_{27}	16.5	X	252.80971	93.83600	52.01045	27.40841	0.4255161	0.23035910	2.64	1.51	3.76	Mc	10 19.7	21.0
380199 2000 YQ_{29}	15.9	X	215.34382	106.73352	116.47244	13.88705	0.5075305	0.22405616	2.68	1.32	4.05	Mc	12 6.1	21.1
380223 2001 RZ_{63}	18.1	X	34.79626	109.24406	234.98348	5.98184	0.3286951	0.25307563	2.48	1.66	3.29	Mc	—	—
380240 2001 UA_{2}	18.1	X	6.39428	150.87055	215.73256	12.79461	0.3639581	0.25009322	2.49	1.59	3.40	Mc	12 28.9	20.8
380282 2002 AO_{148}	12.9	X	143.65047	207.82291	328.54870	19.19967	0.2671218	0.07261492	5.69	4.17	7.21	Jc	8 28.6	21.2
380363 2002 TJ_{118}	17.6	X	70.04311	108.74052	296.94162	4.28621	0.3098511	0.27511369	2.34	1.62	3.07	Mc	—	—
380393 2002 XL_{63}	17.7	X	49.60573	233.34071	164.33728	3.39157	0.3475695	0.26944282	2.37	1.55	3.20	Mc	—	—
380410 2003 AD_{54}	15.6	X	71.77433	268.83232	302.62972	25.98781	0.3727732	0.23162689	2.63	1.65	3.60	Mc	8 20.5	19.8
380431 2003 QC_{57}	18.0	X	187.52591	164.35673	146.17283	4.97627	0.2829642	0.30197338	2.20	1.58	2.82	Mc	1 1.9	21.6
380434 2003 QV_{114}	18.1	X	66.23293	237.55019	85.17499	7.06061	0.3408150	0.28445008	2.29	1.51	3.07	Mc	—	—
380472 2003 WR_{24}	16.8	X	206.60142	48.60450	259.02610	7.92065	0.3217678	0.29930097	2.21	1.50	2.93	Mc	1 13.1	20.9
380509 2004 FY_{5}	17.5	X	44.70166	14.21485	119.36017	12.54264	0.3516730	0.29148219	2.25	1.46	3.05	Mc	2 6.2	17.3
380546 2004 NB_{25}	17.0	X	320.28078	194.37211	147.62234	7.34844	0.3894439	0.22775524	2.66	1.62	3.69	Mc	6 3.1	19.9
380665 2005 EF_{224}	16.1	X	28.89837	45.12293	12.45065	23.21251	0.3973370	0.29525501	2.23	1.35	3.12	Mc	—	—
380710 2005 MN_{32}	16.1	X	313.12384	282.98485	307.32766	26.77456	0.3674128	0.23272846	2.62	1.66	3.58	Mc	1 6.5	20.3
380729 2005 RX_{30}	16.7	X	49.41742	110.44060	284.49988	7.91855	0.3246031	0.26019347	2.43	1.64	3.22	Mc	—	—
380785 2005 VW_{5}	18.3	X	53.77824	140.02466	176.91560	3.70412	0.3289548	0.31372689	2.15	1.44	2.85	Mc	12 27.6	21.6
380846 2006 BN_{7}	16.7	X	253.68647	60.81946	85.78989	30.03705	0.3750896	0.23657725	2.59	1.62	3.56	Mc	11 1.8	21.1
380928 2006 HJ_{3}	18.0	X	252.74730	256.71394	54.50589	6.64679	0.2813402	0.31688958	2.13	1.53	2.73	Mc	2 20.3	21.7
380954 2006 KR_{124}	16.7	X	242.03945	73.15583	122.28611	6.79116	0.4558003	0.23259301	2.62	1.43	3.81	Mc	11 26.1	21.0
380963 2006 QV_{59}	17.7	X	213.02035	86.58748	203.30195	6.48725	0.2703655	0.29939462	2.21	1.61	2.81	Mc	—	—
380980 2006 SN_{110}	17.7	X	252.75850	331.71679	90.87037	7.41523	0.4173060	0.25113537	2.49	1.45	3.53	Mc	6 29.4	22.0
381050 2006 WR_{3}	15.7	X	49.34081	154.78413	275.14972	48.77786	0.4377238	0.14327293	3.62	2.03	5.20	Jc	1 16.5	19.6
381147 2007 GX_{1}	16.8	X	357.14512	121.61756	37.89411	22.32606	0.3164376	0.27253260	2.36	1.61	3.10	Mc	—	—
381783 2009 TS_{2}	17.2	X	49.01859	305.34623	79.73220	4.75624	0.3251518	0.26362870	2.41	1.63	3.19	Mc	—	—
381823 2009 VZ_{80}	16.9	X	81.66261	294.26410	56.85278	22.69999	0.3186355	0.26761134	2.38	1.62	3.14	Mc	—	—
381844 2009 WV_{163}	17.5	X	336.59390	309.63202	58.00318	6.53749	0.3479569	0.24159678	2.55	1.66	3.44	Mc	9 25.9	18.4
381946 2010 DP_{20}	17.7	X	76.73362	168.19113	302.99327	24.62424	0.0689369	0.44078659	1.71	1.59	1.83	Mc	1 14.4	18.4
381960 2010 EV_{87}	16.7	X	260.16710	273.20038	181.82592	27.36446	0.3919636	0.22955825	2.64	1.61	3.68	Mc	8 13.8	21.4
382388 2013 TP_{127}	17.3	X	241.11485	247.60683	200.01249	22.85783	0.4277718	0.21951696	2.72	1.56	3.89	Mc	7 16.8	22.7
382394 3549 $P\text{–}L$	16.1	X	1.34810	142.64305	220.14574	11.74475	0.3504078	0.24349703	2.54	1.65	3.43	Mc	12 10.9	18.3
382418 1998 QN	16.6	X	121.89605	45.13276	314.85183	12.19211	0.3138698	0.27506581	2.34	1.61	3.08	Mc	1 11.7	19.5
382438 1999 TK_{271}	17.1	X	168.43738	351.89417	347.57235	4.80468	0.3143764	0.29026920	2.26	1.55	2.97	Mc	1 27.2	20.8
382456 2000 QV_{84}	16.3	X	351.59368	196.75368	175.86580	10.58676	0.3634713	0.23757031	2.58	1.64	3.52	Mc	12 4.1	18.2
382486 2001 CX_{19}	16.0	X	212.96033	277.01274	323.48709	26.54154	0.3809495	0.22931976	2.64	1.64	3.65	Mc	—	—
382492 2001 OQ_{16}	17.0	X	104.30810	252.37613	78.23017	15.44851	0.3622137	0.26195645	2.42	1.54	3.30	Mc	—	—
382529 2001 SE_{313}	18.8	X	359.24390	288.11070	113.10647	4.02193	0.3878357	0.25077286	2.49	1.52	3.46	Mc	—	—
382582 2002 CX_{152}	17.0	X	325.21616	87.94831	319.01495	25.34483	0.3568207	0.24132380	2.56	1.64	3.47	Mc	9 25.2	19.1
382586 2002 CC_{214}	18.3	X	340.75987	307.85793	138.28977	5.12762	0.3731753	0.24745899	2.51	1.57	3.45	Mc	—	—
382615 2002 NM_{71}	17.5	X	71.56271	113.27193	283.24500	21.00999	0.3003132	0.27905997	2.32	1.62	3.02	Mc	—	—
382669 2002 TA_{126}	17.4	X	116.71211	111.60827	211.56214	9.35397	0.3011661	0.27637005	2.33	1.63	3.04	Mc	—	—
382674 2002 TH_{224}	18.4	X	300.25084	229.01792	210.02024	9.70652	0.2273986	0.36452762	1.94	1.50	2.38	Mc	12 5.5	18.6
382760 2003 NY	16.6	X	278.82249	283.35519	283.12009	7.14243	0.4323303	0.25463396	2.47	1.40	3.53	Mc	—	—
382778 2003 SM_{119}	17.9	X	240.47546	246.94316	64.27897	3.48536	0.2331918	0.30966148	2.16	1.66	2.67	Mc	2 11.5	21.5
382820 2003 WB_{9}	18.0	X	195.20960	73.37518	271.25446	7.01768	0.2945705	0.30356869	2.19	1.55	2.84	Mc	2 15.4	21.9
382838 2004 BG_{83}	17.8	X	39.04562	93.29407	104.45059	6.72659	0.3692655	0.29239642	2.25	1.42	3.08	Mc	6 19.2	18.6
382893 2004 PC_{88}	16.3	X	290.62453	109.02441	327.54230	28.21179	0.4296576	0.23076829	2.63	1.50	3.76	Mc	8 20.7	19.6
383006 2005 LE_{19}	17.7	X	69.26778	154.51976	181.96035	5.91261	0.3672078	0.26455760	2.40	1.52	3.29	Mc	—	—
383165 2005 VJ_{5}	18.2	X	226.56259	5.54271	154.03796	2.89907	0.2854628	0.35950612	1.96	1.40	2.52	Mc	11 1.4	20.6
383218 2005 YX_{220}	15.7	X	195.38706	288.31548	309.32502	26.69777	0.3904999	0.23392987	2.61	1.59	3.63	Mc	12 19.8	20.9
383413 2006 UZ_{201}	17.8	X	123.08039	280.58435	93.65097	7.74172	0.2802469	0.29053473	2.26	1.63	2.89	Mc	1 22.9	20.5
383438 2006 VS_{136}	17.7	X	211.60884	263.09702	58.86413	7.70803	0.2606347	0.29595138	2.23	1.65	2.81	Mc	2 5.4	21.6
383449 2006 WK_{127}	16.2	X	31.00889	349.04961	102.28530	28.31774	0.3084051	0.28153386	2.31	1.59	3.02	Mc	—	—
383464 2006 YH_{18}	16.7	X	33.82455	111.47001	298.13824	21.31537	0.3004233	0.27038968	2.37	1.66	3.08	Mc	—	—
383518 2007 CO_{47}	16.8	X	39.51178	264.31934	133.56782	22.23935	0.3165403	0.26982981	2.37	1.62	3.12	Mc	—	—
383572 2007 ES_{184}	16.7	X	16.37227	82.88491	108.61205	21.92556	0.2990275	0.28089703	2.31	1.62	3.00	Mc	2 28.6	18.4
383580 2007 FA_{3}	16.9	X	243.23662	214.96630	39.82207	7.35174	0.4449678	0.25897336	2.44	1.35	3.52	Mc	—	—
383651 2007 TD_{15}	17.6	X	217.30693	240.93224	244.21911	14.14358	0.2919293	0.34602061	2.01	1.42	2.60	Mc	8 26.2	21.1
384273 2009 KK_{9}	17.8	X	168.61314	73.96135	236.02554	5.93026	0.2896859	0.29133153	2.25	1.60	2.91	Mc	—	—
385200 1999 RB_{25}	17.3	X	223.78099	4.95905	342.04942	7.56140	0.3000673	0.29863540	2.22	1.55	2.88	Mc	3 12.4	21.3
385202 1999 RJ_{246}	17.6	X	275.08641	254.27986	131.95004	6.70951	0.4069720	0.21736064	2.74	1.62	3.85	Mc	6 4.3	22.2

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
385203 1999 SO_{15}	17.6	X	202.25241	3.55468	343.55131	8.54894	0.2966690	0.29575532	2.23	1.57	2.89	Mc	2 27.3	21.4
385240 2000 SW_{363}	17.0	X	22.67528	305.86989	45.04639	6.02718	0.3540928	0.24040783	2.56	1.65	3.47	Mc	12 29.4	20.2
385245 2000 WK_{2}	16.6	X	313.02955	108.49285	305.07301	28.25529	0.3670617	0.23178514	2.62	1.66	3.59	Mc	8 26.3	19.3
385247 2000 YD_{67}	16.3	X	167.25601	147.86619	272.38654	24.80738	0.2646988	0.30572206	2.18	1.60	2.76	Mc	4 24.7	20.5
385250 2001 DH_{47}	18.8	X	290.29436	17.59639	147.39941	24.40357	0.0347899	0.52399270	1.52	1.47	1.58	Mc	—	—
385268 2001 RC_{12}	15.7	X	149.74640	185.47745	208.90543	27.38805	0.6421450	0.17106458	3.21	1.15	5.28	Jc	4 10.6	22.5
385325 2002 CK_{25}	20.0	X	249.51428	185.10011	319.76340	26.82713	0.0570185	0.49340386	1.59	1.50	1.68	Mc	—	—
385342 2002 LL	16.2	X	205.19967	111.15293	156.28853	28.92591	0.3764765	0.23532179	2.60	1.62	3.58	Mc	—	—
385354 2002 PM_{80}	16.6	X	123.82322	33.00292	335.70358	24.35358	0.3077114	0.28156952	2.31	1.60	3.01	Mc	1 29.2	19.9
385355 2002 PQ_{87}	16.7	X	201.89560	119.79924	146.20542	30.12201	0.3627981	0.23419057	2.61	1.66	3.55	Mc	—	—
385368 2002 PF_{179}	16.8	X	166.90915	289.53312	320.33497	14.41515	0.3910243	0.22689123	2.66	1.62	3.70	Mc	12 13.2	22.2
385371 2002 QS_{16}	18.0	X	123.16029	109.47976	287.44133	6.50781	0.2810790	0.28425515	2.29	1.65	2.93	Mc	2 19.9	21.1
385377 2002 RJ_{8}	17.2	X	111.33089	255.37476	165.57367	23.29079	0.2854419	0.28483407	2.29	1.63	2.94	Mc	3 13.9	20.0
385381 2002 RT_{125}	16.8	X	96.81252	87.82183	326.75877	21.74892	0.2794512	0.28109165	2.31	1.66	2.95	Mc	2 12.3	19.0
385395 2002 VO_{14}	16.9	X	61.46595	163.42055	241.40882	27.83302	0.3501862	0.27184671	2.36	1.53	3.19	Mc	—	—
385408 2002 XW_{64}	16.8	X	125.15562	288.94330	85.42123	23.31709	0.3115131	0.27649485	2.33	1.61	3.06	Mc	2 4.6	20.3
385538 2004 RJ_{63}	17.7	X	300.53238	242.48258	171.13501	7.85526	0.4028874	0.22868248	2.65	1.58	3.72	Mc	8 6.6	20.6
385571 Otrera	8.8	X	8.31956	358.81449	34.74645	1.42743	0.0297695	0.00593085	30.23	29.33	31.13	NT	11 5.6	23.4
385636 2005 QS_{75}	16.9	X	95.19970	288.96443	79.14036	6.68381	0.3230771	0.26574644	2.40	1.62	3.17	Mc	—	—
385695 Clete	8.3	X	296.75497	301.21875	169.29571	5.24636	0.0514041	0.00593591	30.21	28.66	31.76	NT	11 6.3	23.0
385875 2006 RJ_{101}	16.7	X	83.56359	298.83207	66.44672	24.76034	0.2766156	0.28335139	2.30	1.66	2.93	Mc	—	—
385884 2006 SO_{131}	19.5	X	148.21079	286.74582	149.12993	6.84546	0.1964203	0.43824061	1.72	1.38	2.05	Mc	4 21.8	21.2
386621 2009 RL_{59}	17.6	X	59.10905	281.18061	86.37807	0.62672	0.3104578	0.26394853	2.41	1.66	3.15	Mc	—	—
386655 2009 TA_{7}	17.1	X	205.76808	1.38556	340.59879	6.70140	0.2659615	0.29359811	2.24	1.65	2.84	Mc	2 23.2	21.0
386687 2009 VX_{84}	17.4	X	183.30712	216.91117	126.10762	8.12071	0.3200038	0.29090533	2.26	1.53	2.98	Mc	2 10.9	21.4
387487 4169 T_{-3}	17.6	X	129.79654	294.28408	85.94303	3.55317	0.3012952	0.27855475	2.32	1.62	3.02	Mc	2 12.8	20.9
387514 1999 RM_{190}	18.0	X	358.78117	252.46597	74.07571	1.57932	0.2447156	0.31461120	2.14	1.62	2.66	Mc	10 6.3	18.7
387541 2000 VN_{61}	16.6	X	323.44743	64.45871	16.65919	29.01390	0.3639806	0.23454425	2.60	1.66	3.55	Mc	12 5.3	18.7
387554 2001 QT_{69}	17.8	X	312.88426	48.16626	247.87170	3.41189	0.3376070	0.28839005	2.27	1.50	3.03	Mc	3 18.7	20.7
387607 2002 DD_{4}	17.7	X	128.40899	251.74148	149.12219	25.67304	0.2318761	0.41199264	1.79	1.37	2.20	Mc	1 31.5	18.9
387632 2002 PD_{40}	15.5	X	229.96120	79.63509	169.54678	26.72014	0.4658587	0.23583883	2.59	1.39	3.80	Mc	—	—
387814 2004 FK_{1}	16.5	X	306.02475	96.22780	166.27206	21.52810	0.3145973	0.27961415	2.32	1.59	3.04	Mc	1 31.4	20.3
387826 2004 GD_{39}	17.6	X	40.24877	201.58842	65.97050	7.12749	0.2525231	0.29893489	2.22	1.66	2.77	Mc	9 28.5	19.9
387845 2004 NE_{25}	17.1	X	240.74871	357.35120	327.45563	4.15894	0.3045926	0.27087904	2.37	1.65	3.09	Mc	2 27.9	21.3
387848 2004 OR_{10}	16.4	X	310.75092	302.07743	355.11155	24.25850	0.3437651	0.28041402	2.31	1.52	3.11	Mc	3 18.4	19.3
387975 2005 LN_{6}	17.1	X	126.15799	233.45681	114.10926	13.85846	0.3686010	0.27191613	2.36	1.49	3.23	Mc	1 7.2	20.1
388034 2005 SN_{124}	17.9	X	13.98219	131.23786	169.21292	5.73027	0.2816733	0.30797164	2.17	1.56	2.78	Mc	10 4.9	19.0
388259 2006 QF_{1}	18.2	X	180.51790	58.08992	319.35569	0.42055	0.3683158	0.30088686	2.21	1.39	3.02	Mc	3 22.4	22.3
388508 2007 EM_{167}	17.4	X	68.61101	91.08639	17.47781	22.33547	0.2917199	0.27913416	2.32	1.64	3.00	Mc	3 21.5	19.2
388839 2008 ES_{7}	18.9	X	329.52946	77.52256	356.63723	24.47164	0.0900150	0.49211785	1.59	1.45	1.73	Mc	—	—
389361 2009 VS_{1}	17.2	X	78.83213	269.80387	177.89141	20.41735	0.3031499	0.27568385	2.34	1.63	3.05	Mc	3 3.6	19.2
389820 2011 WU_{92}	12.9	X	108.63694	22.39971	101.18055	6.45238	0.3694775	0.03748812	8.84	5.57	12.11	Ja	6 16.2	23.0
390521 1995 YU_{3}	18.7	X	128.85222	23.63322	115.07191	10.92769	0.1403545	0.44074869	1.71	1.47	1.95	Mc	6 28.2	20.1
390540 1999 TE_{165}	17.8	X	13.35099	349.39414	319.74148	3.65509	0.2764563	0.31423771	2.14	1.55	2.74	Mc	10 15.1	19.1
390546 2000 EK_{50}	17.7	X	38.85285	53.79134	136.92703	24.61223	0.3099983	0.28348644	2.29	1.58	3.01	Mc	5 31.7	19.9
390553 2000 SL_{164}	17.2	X	169.89611	38.87506	33.63397	25.61513	0.2667246	0.31161715	2.15	1.58	2.73	Mc	5 12.4	21.0
390572 2001 HJ_{21}	17.9	X	22.59329	83.69153	194.09927	3.90029	0.2557418	0.30125995	2.20	1.64	2.77	Mc	9 5.9	19.3
390578 2001 PF_{16}	18.0	X	263.06984	338.17512	3.08066	3.36451	0.2809302	0.28580939	2.28	1.64	2.92	Mc	4 5.9	21.8
390636 2002 JV_{8}	16.7	X	181.91056	116.91181	159.79918	29.82561	0.3692217	0.23431111	2.61	1.64	3.57	Mc	—	—
390638 2002 LZ_{62}	18.5	X	54.69652	282.28287	14.15180	4.63421	0.2810814	0.31974783	2.12	1.52	2.71	Mc	11 27.7	21.5
390646 2002 PN_{56}	17.8	X	327.83429	141.75422	157.26763	7.09756	0.2540985	0.30605258	2.18	1.63	2.73	Mc	5 2.5	19.7
390662 2002 RM_{76}	18.0	X	14.28294	288.43614	349.81192	6.10544	0.2557204	0.31002249	2.16	1.61	2.71	Mc	8 19.8	18.8
390689 2002 VS_{91}	18.7	X	300.97147	276.42098	182.01905	5.61176	0.2754907	0.36595154	1.94	1.40	2.47	Mc	—	—
390695 2003 AY_{3}	16.4	X	41.43168	281.99826	207.10437	22.58313	0.3190153	0.27557592	2.34	1.59	3.08	Mc	1 12.3	18.2
390733 2003 OS	17.0	X	67.64364	183.54503	144.24009	35.29092	0.2032875	0.34555147	2.01	1.60	2.42	Mc	—	—
390774 2003 UJ_{188}	15.8	X	265.01993	84.66026	37.06802	29.30132	0.4101100	0.21376371	2.77	1.63	3.91	Mc	10 4.4	20.3
390802 2004 GS_{19}	16.5	X	323.91156	210.01661	75.96543	26.01263	0.2694189	0.28783654	2.27	1.66	2.88	Mc	4 19.2	19.5
390808 2004 HK_{52}	18.9	X	280.66203	128.71543	77.08468	9.25549	0.2592547	0.38726003	1.86	1.38	2.35	Mc	—	—
390812 2004 JQ_{6}	15.8	X	93.40176	286.13513	31.58615	13.86816	0.4631965	0.19330257	2.96	1.59	4.33	Mc	—	—
390819 2004 LE_{2}	18.0	X	328.56660	252.06682	55.40080	6.49561	0.3946575	0.28611016	2.28	1.38	3.18	Mc	4 20.2	20.0
390872 2004 TL_{130}	17.7	X	303.67213	154.58940	161.13122	7.83367	0.2994466	0.27971011	2.32	1.62	3.01	Mc	4 14.2	20.8
390927 2005 FO	16.5	X	301.20557	78.83604	8.06995	9.25571	0.4704698	0.22292985	2.69	1.43	3.96	Mc	9 14.8	18.9
391000 2005 SC_{99}	16.9	X	44.82387	253.37031	204.30708	21.58167	0.3143490	0.26643508	2.39	1.64	3.14	Mc	—	—
391151 2005 YY_{93}	17.1	X	245.39736	311.75214	296.68700	24.17475	0.8829828	0.23776067	2.58	0.30	4.86	Ja	12 19.2	22.6
391399 2007 BH_{20}	17.7	X	52.95607	213.91126	343.14551	4.77919	0.2819318	0.29111901	2.25	1.62	2.89	Mc	7 2.6	19.6
391523 2007 RH_{192}	17.2	X	279.76709	94.80712	212.07131	12.00462	0.3070327	0.26554578	2.40	1.66	3.13	Mc	3 4.7	21.4
391595 2007 UR_{2}	19.5	X	92.23156	356.38698	40.68120	8.26199	0.0609611	0.52311541	1.53	1.43	1.62	Mc	—	—
391599 2007 UD_{29}	16.5	X	230.96084	259.18432	39.64944	9.10250	0.3383556	0.25469020	2.46	1.63	3.30	Mc	1 26.6	21.3
391814 2008 SB_{4}	18.2	X	14.62838	256.94175	53.39618	3.03765	0.2470547	0.30448813	2.19	1.65	2.73	Mc	10 15.1	19.6
391852 2008 SB_{294}	17.9	X	340.17662	192.33158	127.27933	6.95493	0.2809621	0.29882062	2.22	1.59	2.84	Mc	7 6.8	18.5
391938 2008 UY_{366}	17.6	X	1.20317	241.26408	69.43615	7.72645	0.2540181	0.29932542	2.21	1.65	2.78	Mc	9 15.7	18.8
392022 2009 BA_{2}	18.1	X	6.45860	107.44699	124.30263	22.63570	0.1117878	0.42097940	1.76	1.57	1.96	Mc	4 15.0	19.8
392214 2009 UC_{20}	17.2	X	94.91378	285.54323	198.54083	22.24749	0.2984895	0.28772077	2.27	1.59	2.95	Mc	5 22.1	20.5
392357 2010 GR_{66}	17.0	X	281.81896	92.42938	39.12873	28.24694	0.3751864	0.23505177	2.60	1.62	3.58	Mc	11 1.6	19.9
392466 2011 CB_{66}	17.2	X	183.72110	225.98877	6.85961	31.55981	0.2497912	0.34848416	2.00	1.50	2.50	Mc	12 29.8	21.0
393348 1988 RO_{1}	17.2	X	186.59704	155.66548	181.15914	11.63083	0.5085995	0.22495526	2.68	1.32	4.04	Mc	2 14.3	23.0
393350 1992 RN_{1}	16.4	X	18.81771	210.62338	138.59754	6.04776	0.5111294	0.17207855	3.20	1.56	4.84	Ja	12 31.0	20.4
393364 1999 RK_{1}	17.0	X	183.05021	44.81441	358.79340	28.41382	0.2971524	0.29650578	2.23	1.57	2.89	Mc	4 11.8	21.3
393393 2000 RN_{19}	17.4	X	312.76686	63.50584	240.18229	5.42418	0.3010881	0.27471106	2.34	1.64	3.05	Mc	4 5.1	20.5
393410 2001 KH_{1}	17.0	X	183.86308	242.62858	60.06098	15.21852	0.3890439	0.22465513	2.68	1.64	3.72	Mc	1 5.4	22.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
393413 2001 QL_{102}	18.1	X	304.52801	334.52575	7.08283	1.37676	0.2743479	0.29195869	2.25	1.63	2.87	Mc	5 22.8	20.6
393417 2001 QB_{179}	17.3	X	291.22077	322.41548	17.13103	7.32491	0.3215734	0.28695455	2.28	1.54	3.01	Mc	4 24.9	20.7
393446 2001 TC_{231}	17.3	X	318.63440	173.52517	135.37902	7.69174	0.2869532	0.28890186	2.27	1.62	2.92	Mc	4 27.9	19.7
393458 2001 WE_{1}	17.1	X	295.56337	262.71250	69.02034	10.77167	0.3133928	0.28518502	2.29	1.57	3.00	Mc	4 25.4	20.4
393483 2002 PW_{42}	17.0	X	169.16540	179.37744	152.47189	8.95516	0.4086503	0.23273962	2.62	1.55	3.69	Mc	1 28.5	22.0
393504 2002 RC_{139}	18.0	X	341.41637	293.97218	62.88681	7.35308	0.2319312	0.31189868	2.15	1.65	2.65	Mc	10 13.5	18.9
393641 2004 PG_{18}	18.1	X	296.57048	87.15667	220.70861	2.27180	0.2833955	0.27998627	2.31	1.66	2.97	Mc	3 25.7	21.5
393657 2004 RS_{9}	18.0	X	306.81646	102.21077	220.13928	20.24707	0.2815221	0.28214834	2.30	1.65	2.95	Mc	4 27.5	20.5
393804 2005 QH_{71}	17.5	X	307.99253	160.55478	179.00112	3.98990	0.3154777	0.30045036	2.21	1.51	2.90	Mc	5 18.4	19.8
393822 2005 SX_{35}	18.2	X	357.39808	85.51675	246.27940	2.83638	0.2651303	0.30796010	2.17	1.60	2.75	Mc	10 11.7	19.1
393858 2005 ST_{220}	17.2	X	267.29775	68.01228	277.66006	5.66500	0.2691128	0.29318954	2.24	1.64	2.85	Mc	4 13.5	20.9
393859 2005 SN_{225}	16.7	X	44.55488	237.67360	231.11997	20.59737	0.3160967	0.26471733	2.40	1.64	3.16	Mc	—	—
393907 2005 UR_{2}	18.2	X	19.28317	76.30509	232.97019	4.86681	0.3030928	0.30728515	2.17	1.52	2.83	Mc	11 1.8	20.1
394000 2005 UG_{512}	18.1	X	337.90576	261.60638	82.19707	2.97907	0.2483702	0.30258114	2.20	1.65	2.74	Mc	8 28.9	18.7
394013 2005 VY_{59}	17.9	X	316.48830	297.15251	62.16466	6.19286	0.2463225	0.30301859	2.20	1.65	2.74	Mc	7 22.7	19.4
394066 2005 XU_{77}	15.1	X	353.27949	283.20699	98.77133	19.28577	0.4860891	0.18101512	3.09	1.59	4.60	Mc	12 22.2	16.9
394130 2006 HY_{51}	17.1	X	209.45822	341.95539	40.60964	33.52260	0.9685139	0.23664101	2.59	0.08	5.10	Jc	4 19.8	24.0
394141 2006 KV_{38}	16.7	X	218.90113	247.30198	62.21015	30.62316	0.4197815	0.23851112	2.58	1.49	3.66	Mc	2 6.9	22.4
394420 2007 HH_{69}	18.7	X	16.04228	61.96928	196.57906	7.99992	0.3082921	0.28493922	2.29	1.58	2.99	Mc	7 17.5	19.7
394438 2007 PJ_{35}	17.2	X	254.03582	5.73066	333.34316	3.64846	0.3128514	0.26263727	2.41	1.66	3.17	Mc	3 25.9	21.5
394474 2007 TT_{23}	17.0	X	305.29873	90.57996	212.34239	6.46587	0.3514491	0.26693630	2.39	1.55	3.23	Mc	3 20.1	20.4
394794 2008 QV_{7}	17.7	X	337.28201	346.78359	332.71358	3.64443	0.2745291	0.30051862	2.21	1.60	2.81	Mc	6 27.9	18.5
394804 2008 RS_{68}	18.2	X	292.40167	220.85742	136.64042	4.69467	0.2611965	0.29323219	2.24	1.66	2.83	Mc	6 1.3	20.9
394823 2008 SY_{107}	18.1	X	346.42672	79.60641	226.92341	5.66155	0.2520654	0.29731300	2.22	1.66	2.78	Mc	7 4.6	19.1
394837 2008 SF_{180}	17.6	X	337.63573	265.50915	77.14461	5.68649	0.2663934	0.29964165	2.21	1.62	2.80	Mc	8 25.7	18.3
394935 2008 WA_{133}	16.9	X	282.72660	192.94599	133.50864	8.98142	0.2887451	0.28123177	2.31	1.64	2.97	Mc	4 8.6	20.5
394938 2008 XY_{1}	16.6	X	42.53660	107.42877	248.90454	23.00098	0.3035877	0.31020930	2.16	1.51	2.82	Mc	—	—
395182 2010 EP_{111}	17.0	X	298.08430	80.61507	18.28460	27.51818	0.4114806	0.23344532	2.61	1.54	3.69	Mc	10 9.9	19.2
395339 2011 QS_{33}	18.1	X	308.43694	183.32282	158.06829	2.65217	0.2780156	0.28624996	2.28	1.65	2.91	Mc	5 29.4	20.4
395365 2011 RN_{11}	17.8	X	342.20721	134.02986	168.33491	5.14849	0.2895607	0.28810181	2.27	1.61	2.93	Mc	6 7.1	18.9
395402 2011 SP_{121}	18.4	X	5.95409	105.92470	185.00995	5.70263	0.2933921	0.29088544	2.26	1.59	2.92	Mc	8 17.4	19.1
396436 2014 EO_{45}	17.6	X	336.95938	217.99268	17.45410	7.03244	0.3327137	0.26821425	2.38	1.59	3.17	Mc	2 4.5	20.5
396568 2000 AZ_{101}	16.8	X	303.49820	325.53213	113.47297	4.09445	0.3934284	0.22137159	2.71	1.64	3.77	Mc	9 24.1	19.1
396578 2000 QG_{102}	17.3	X	235.40536	235.45687	131.87036	7.74342	0.3072074	0.26847996	2.38	1.65	3.11	Mc	4 20.0	21.6
396605 2001 RC_{18}	16.6	X	276.83372	299.04544	24.17519	30.15525	0.3843641	0.23463915	2.60	1.60	3.60	Mc	3 30.4	21.2
396614 2001 SR_{115}	18.4	X	66.38556	88.29351	203.21642	7.40210	0.3824255	0.30511222	2.19	1.35	3.02	Mc	12 10.2	22.2
396618 2001 SW_{325}	18.1	X	311.22754	223.51472	136.40605	3.96342	0.2786710	0.29126475	2.25	1.63	2.88	Mc	7 2.4	20.0
396626 2001 TX_{236}	18.4	X	338.64482	254.00688	86.50380	3.00247	0.2662172	0.29428755	2.24	1.64	2.83	Mc	8 21.3	19.0
396638 2001 WR_{2}	17.3	X	257.51971	119.01908	229.23863	23.91759	0.2805088	0.28064508	2.31	1.66	2.96	Mc	4 7.6	21.4
396656 2002 MZ_{3}	16.6	X	197.29834	108.38840	233.68337	10.11644	0.3697226	0.23833371	2.58	1.62	3.53	Mc	2 19.7	21.8
396661 2002 OS_{33}	19.2	X	97.76797	95.82879	187.22244	3.90866	0.2488987	0.32409919	2.10	1.58	2.62	Mc	12 17.2	22.6
396675 2002 RH_{176}	19.1	X	48.41839	141.73008	195.52452	4.55024	0.2735630	0.32046837	2.11	1.54	2.69	Mc	—	—
396680 2002 ST	16.7	X	180.03301	91.40078	291.40392	26.86128	0.3780498	0.23561732	2.60	1.61	3.58	Mc	3 17.1	22.2
396686 2002 TJ_{51}	17.4	X	151.20167	337.53931	22.94098	5.00550	0.3949570	0.23006991	2.64	1.60	3.68	Mc	2 21.1	22.2
396707 2002 UU_{36}	19.7	X	144.73026	211.38323	31.18749	4.03622	0.0304347	0.47405828	1.63	1.58	1.68	Mc	—	—
396708 2002 UM_{74}	18.4	X	357.49535	275.62636	65.55907	4.69746	0.2466637	0.31078925	2.16	1.63	2.69	Mc	10 30.1	19.5
396723 2003 AE_{23}	18.7	X	316.56228	230.94803	253.44405	2.51514	0.3269645	0.36700281	1.93	1.30	2.56	Mc	—	—
396795 2004 NJ_{8}	16.2	X	342.58633	74.45285	280.37018	22.39589	0.3204154	0.28845946	2.27	1.54	3.00	Mc	9 12.1	18.0
396810 2004 PS_{100}	17.6	X	346.57771	44.16550	315.81969	7.38524	0.3275631	0.29113491	2.25	1.52	2.99	Mc	11 4.1	18.5
396815 2004 QG_{24}	16.1	X	258.99408	135.15275	247.21289	22.53720	0.3062841	0.27761092	2.33	1.61	3.04	Mc	5 23.7	19.9
396853 2004 SG	17.7	X	268.80373	124.01557	226.41337	23.31224	0.3052439	0.27784936	2.33	1.62	3.04	Mc	4 19.9	21.5
396948 2005 JQ_{176}	18.3	X	172.68551	196.67051	111.02288	13.88244	0.4173240	0.21699875	2.74	1.60	3.89	Mc	1 6.5	23.4
396967 2005 RZ_{51}	19.1	X	57.28745	29.18170	274.61082	2.08868	0.3432906	0.31792365	2.13	1.40	2.86	Mc	12 16.2	22.3
397131 2005 WS_{56}	16.7	X	345.58282	92.63953	261.20397	5.46578	0.2645273	0.30372417	2.19	1.61	2.77	Mc	10 13.9	17.5
397195 2006 BO_{149}	16.9	X	156.72985	294.00792	154.57364	22.97520	0.3121962	0.27754858	2.33	1.60	3.05	Mc	6 4.9	21.6
397236 2006 KS_{105}	16.6	X	69.14211	256.21560	258.78657	19.52403	0.3365436	0.26602861	2.39	1.59	3.20	Mc	6 6.4	19.0
397237 2006 KZ_{112}	16.7	X	289.92388	358.17611	166.30436	37.82339	0.8871095	0.24580847	2.52	0.28	4.76	Ja	10 3.2	20.9
397241 2006 OE_{13}	17.1	X	154.90408	201.01064	172.26647	7.69133	0.4189785	0.23092122	2.63	1.53	3.73	Mc	3 9.1	22.0
397254 2006 QG_{99}	17.5	X	240.55259	134.60127	154.78428	7.33032	0.3645867	0.23863612	2.57	1.64	3.51	Mc	1 19.3	22.5
397262 2006 RN_{16}	14.2	X	219.16445	89.71626	245.69316	12.78816	0.4001850	0.10534702	4.44	2.66	6.22	Jc	3 3.4	22.0
397287 2006 SG_{54}	16.7	X	171.53129	80.75719	231.67853	11.80873	0.3806776	0.22755403	2.66	1.65	3.67	Mc	1 6.3	21.8
397339 2006 TS_{88}	17.5	X	255.79903	271.26510	23.87948	11.25380	0.3913315	0.23770585	2.58	1.57	3.59	Mc	2 7.7	22.6
397360 2006 UZ_{124}	17.5	X	137.59555	255.76094	217.58336	23.99141	0.2972656	0.30360957	2.19	1.54	2.84	Mc	6 14.2	21.5
397441 2007 EH_{1}	16.8	X	90.15384	306.95854	229.01294	24.05054	0.2625959	0.29293124	2.25	1.66	2.84	Mc	7 14.1	20.5
397472 2007 MV_{9}	16.9	X	238.91559	178.41174	187.62592	3.40765	0.3189904	0.26608869	2.39	1.63	3.16	Mc	4 17.7	21.0
397473 2007 OB_{2}	17.2	X	218.78105	191.34563	147.43581	3.70493	0.3882634	0.25589066	2.46	1.50	3.41	Mc	3 3.2	22.0
397798 2008 PD	18.4	X	30.29778	231.86489	101.23481	2.85888	0.2361321	0.31371976	2.15	1.64	2.65	Mc	12 13.1	20.6
397827 2008 SP_{148}	16.5	X	183.28827	217.54966	206.40220	22.66939	0.3736860	0.27390282	2.35	1.47	3.23	Mc	5 21.3	21.2
398465 2011 UP_{108}	17.4	X	303.32420	175.20958	143.25246	8.18513	0.3540845	0.27739192	2.33	1.50	3.15	Mc	4 10.8	20.7
398577 2011 WK_{45}	17.8	X	76.41527	113.75024	230.66716	4.02162	0.2951771	0.31274986	2.15	1.52	2.78	Mc	—	—
398641 2012 RP_{31}	17.9	X	334.73031	201.32377	228.47725	9.95975	0.2644534	0.34175723	2.03	1.49	2.56	Mc	—	—
399340 2000 LM_{36}	17.3	X	178.31871	103.22643	196.60138	8.36352	0.4944607	0.21215939	2.78	1.41	4.16	Mc	1 3.3	23.1
399356 2000 WG_{12}	17.3	X	259.23528	106.02285	258.89209	2.76455	0.3399809	0.26694007	2.39	1.58	3.20	Mc	4 28.7	21.3
399404 2001 TL_{54}	18.1	X	340.94115	147.40749	241.55196	4.10864	0.2823092	0.29855323	2.22	1.59	2.84	Mc	12 11.3	19.1
399441 2002 AR_{208}	17.2	X	15.81476	64.97317	280.66848	7.24593	0.2629435	0.29194930	2.25	1.66	2.84	Mc	12 9.4	19.5
399457 2002 PD_{43}	19.1	X	286.03588	210.84629	315.14065	26.03609	0.9562222	0.24812257	2.51	0.11	4.91	Ja	9 10.3	24.3
399464 2002 QZ_{46}	17.7	X	218.86755	134.26167	210.48246	11.00923	0.3694499	0.24040741	2.56	1.62	3.51	Mc	3 7.9	22.7
399488 2002 TA_{46}	17.2	X	201.17231	356.30417	24.02498	8.94309	0.3852792	0.23984289	2.57	1.58	3.55	Mc	4 10.9	22.2
399526 2003 AA_{17}	17.7	X	310.17322	201.15900	285.02286	17.12462	0.2902898	0.36783456	1.93	1.37	2.49	Mc	—	—
399575 2003 ST_{258}	17.6	X	306.09135	221.17042	110.36822	1.85089	0.3092800	0.26568354	2.40	1.66	3.14	Mc	5 7.4	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
399587 2003 TW_9	16.8	X	259.81772	105.46275	293.40820	20.73890	0.3535134	0.26417417	2.41	1.56	3.26	Mc	6 11.8	21.0
399613 2004 BQ_{65}	16.9	X	182.58810	267.50600	113.52657	6.15732	0.3469402	0.24519632	2.53	1.65	3.41	Mc	4 2.8	21.7
399621 2004 GC_{26}	18.1	X	83.47577	176.51056	69.71190	2.91152	0.2676153	0.30320289	2.19	1.61	2.78	Mc	10 19.8	21.4
399628 2004 NM_{23}	17.9	X	335.64258	91.42676	247.77271	4.17970	0.2773597	0.28967859	2.26	1.63	2.89	Mc	7 31.2	18.8
399630 2004 OH_3	17.6	X	42.71997	34.96165	302.33836	7.64404	0.2711585	0.30070944	2.21	1.61	2.80	Mc	—	—
399632 2004 PL_2	18.5	X	324.86957	280.03057	74.32437	6.55136	0.3591900	0.28814832	2.27	1.45	3.09	Mc	7 8.9	19.5
399637 2004 PQ_{68}	17.8	X	299.17073	201.38757	167.82087	9.27708	0.2872500	0.28590163	2.28	1.63	2.94	Mc	6 23.6	20.5
399640 2004 QL_{10}	18.1	X	310.67657	251.91848	104.44318	7.08225	0.2755141	0.28594816	2.28	1.65	2.91	Mc	6 26.3	19.9
399655 2004 RR_{175}	18.1	X	354.92729	151.11202	204.99577	6.63879	0.2990082	0.29310823	2.24	1.57	2.92	Mc	11 23.1	19.3
399714 2004 VK_{27}	17.1	X	49.44174	43.40514	258.06880	4.75824	0.2928106	0.29269340	2.25	1.59	2.90	Mc	11 27.0	20.1
399735 2005 DD_1	16.7	X	320.93686	84.90323	93.46325	28.41300	0.3748185	0.23543691	2.60	1.62	3.57	Mc	—	—
399814 2005 SE_{133}	18.7	X	66.34729	122.24710	209.13155	2.32986	0.2195026	0.31863358	2.12	1.66	2.59	Mc	—	—
399891 2005 WX_{55}	17.3	X	327.84627	290.85844	81.57360	23.85421	0.3774649	0.30371683	2.19	1.36	3.02	Mc	10 12.8	18.6
399905 2005 XA_1	18.4	X	44.41130	211.95165	148.23177	6.50294	0.3842021	0.31812156	2.13	1.31	2.94	Mc	—	—
400103 2006 TQ_{58}	16.8	X	195.33408	91.76978	252.35308	10.94971	0.3993537	0.23371213	2.61	1.57	3.65	Mc	2 20.9	22.2
400152 2006 VO_{12}	16.5	X	228.11375	83.85182	274.52585	27.03439	0.3876487	0.24173665	2.55	1.56	3.54	Mc	3 17.3	22.0
400196 2006 YL_{13}	16.7	X	185.15820	91.41711	327.87853	27.06787	0.4008054	0.23489975	2.60	1.56	3.64	Mc	5 6.6	22.4
400242 2007 NZ_4	17.3	X	338.36142	254.44593	107.29538	5.37872	0.2767938	0.28555367	2.28	1.65	2.92	Mc	10 6.7	18.1
400513 2008 SP_3	17.7	X	61.09466	157.06103	152.33436	4.97650	0.2501257	0.31467789	2.14	1.61	2.68	Mc	12 17.7	20.8
400525 2008 SU_{266}	18.4	X	83.61290	264.23017	33.42063	4.20037	0.2706677	0.31577300	2.14	1.56	2.71	Mc	12 23.8	21.8
400542 2008 UX_{226}	18.6	X	60.91806	33.28250	310.26177	1.82162	0.3290551	0.31641016	2.13	1.43	2.83	Mc	—	—
400549 2008 UF_{308}	16.8	X	80.61067	354.73618	239.98553	24.95459	0.2777387	0.29199356	2.25	1.63	2.88	Mc	9 22.8	20.8
400554 2008 VA_{58}	18.0	X	356.80404	247.48340	136.98898	5.55122	0.2337428	0.30727789	2.17	1.67	2.68	Mc	—	—
400559 2008 WN_{66}	17.3	X	300.81054	261.27744	64.20983	23.96488	0.2933380	0.28576837	2.28	1.61	2.95	Mc	4 30.6	20.5
400596 2009 BC_2	15.9	X	307.75779	280.55129	277.49216	26.72413	0.3673672	0.23310371	2.61	1.65	3.58	Mc	—	—
400684 2009 QN_4	16.4	X	76.27159	252.17597	147.26858	15.58629	0.4958444	0.18875547	3.01	1.52	4.50	Mc	2 16.9	19.8
400980 2010 XJ_{56}	18.3	X	263.82081	12.40940	85.05355	19.23431	0.1231132	0.44822460	1.69	1.48	1.90	Mc	11 20.4	19.1
401000 2011 QV_{13}	18.3	X	314.22278	206.22705	148.80661	3.29637	0.3148766	0.28982363	2.26	1.55	2.97	Mc	6 22.9	20.2
401009 2011 RM_3	17.9	X	351.42564	314.28184	4.46224	7.96887	0.2739365	0.29258397	2.25	1.63	2.86	Mc	8 26.2	18.5
401023 2011 SC_{51}	17.9	X	333.93295	44.70184	311.00100	6.02244	0.2641825	0.29248362	2.25	1.65	2.84	Mc	8 31.6	18.7
401099 2011 UZ_{189}	18.4	X	5.81536	258.93953	62.66733	6.86528	0.2881265	0.29031292	2.26	1.61	2.91	Mc	10 20.7	19.8
401146 2011 VD_9	16.8	X	283.60080	140.84832	227.25715	23.98332	0.2946664	0.27624544	2.33	1.65	3.02	Mc	5 30.3	20.1
401809 3195 T_{-2}	17.8	X	309.99973	262.11229	54.06022	2.77408	0.4108117	0.26456790	2.40	1.42	3.39	Mc	4 6.2	20.9
401824 1998 QG_{71}	17.4	X	69.77400	7.00647	300.20472	7.06105	0.2512671	0.30826544	2.17	1.62	2.72	Mc	12 21.9	20.8
401840 1999 UH_{56}	17.9	X	288.32213	169.30428	203.19894	1.65759	0.3126920	0.26255037	2.42	1.66	3.17	Mc	6 9.5	21.0
401847 1999 WW_{19}	16.8	X	47.35024	77.24656	357.92477	7.66829	0.4793097	0.18842085	3.01	1.57	4.46	Mc	1 29.8	18.1
401857 2000 PG_3	16.0	X	116.27092	141.23268	323.58142	22.02528	0.8552495	0.20760843	2.82	0.41	5.24	Jc	6 29.4	22.7
401858 2000 QJ_{54}	17.3	X	346.94233	356.91141	350.62173	8.27182	0.2893916	0.28254606	2.30	1.63	2.97	Mc	10 2.2	18.1
401868 2000 VS_{41}	18.0	X	319.94101	31.92034	345.78289	3.68152	0.2829921	0.27923468	2.32	1.66	2.97	Mc	8 25.8	18.9
401871 2000 WA_{44}	17.6	X	297.97642	312.86273	87.56273	7.87352	0.3238234	0.27688768	2.33	1.58	3.09	Mc	8 3.9	20.0
401892 2001 SA_5	16.3	X	239.10607	272.39752	27.62399	23.32219	0.3963821	0.22643098	2.67	1.61	3.72	Mc	2 10.8	21.9
401921 2001 XL_6	15.9	X	145.53320	88.13717	303.80634	28.78243	0.4247555	0.21742978	2.74	1.58	3.90	Mc	3 9.7	21.5
401968 2002 TE_{138}	18.7	X	240.28445	35.71216	338.31053	5.92956	0.4300632	0.24550142	2.53	1.44	3.61	Mc	4 21.3	23.7
401979 2002 UC_{32}	18.7	X	236.35438	32.96757	343.27719	5.85793	0.3754144	0.24504035	2.53	1.58	3.48	Mc	4 24.1	23.6
401994 2003 BS_{27}	16.6	X	199.95259	271.74746	151.94080	11.80614	0.3980673	0.23770091	2.58	1.55	3.61	Mc	6 1.8	21.9
402010 2003 QP_{104}	16.8	X	182.44076	80.32573	353.15931	12.97248	0.3823938	0.25528133	2.46	1.52	3.40	Mc	5 29.1	21.8
402064 2003 TW_6	17.4	X	305.39748	275.06431	54.00200	11.31240	0.3076336	0.26606758	2.39	1.66	3.13	Mc	5 3.8	20.4
402103 2003 WM_{109}	18.1	X	237.97390	138.05377	266.99971	5.74020	0.3190084	0.26020855	2.43	1.65	3.21	Mc	6 3.8	22.4
402138 2004 PC_{97}	17.2	X	142.13697	338.63335	7.25132	23.05154	0.5298848	0.19639662	2.93	1.38	4.48	Mc	2 18.3	23.1
402139 2004 QN_3	17.6	X	53.11244	186.29196	179.26950	8.01406	0.3160406	0.30307541	2.20	1.50	2.89	Mc	—	—
402159 2004 RM_{216}	17.1	X	257.63715	101.78817	342.02421	21.04178	0.3352029	0.28339376	2.30	1.53	3.06	Mc	8 14.5	20.6
402267 2005 QE_{166}	17.0	X	149.78936	234.36964	188.83909	12.95718	0.5290156	0.21625426	2.75	1.29	4.20	Jc	5 9.7	22.7
402290 2005 SC_{197}	19.3	X	126.52281	142.01697	153.31856	1.54584	0.2494576	0.32660731	2.09	1.57	2.61	Mc	—	—
402308 2005 TS_{50}	17.2	X	125.65263	76.29959	333.03052	10.32169	0.4254900	0.21195621	2.79	1.60	3.97	Mc	3 30.3	22.2
402362 2005 WL_{17}	18.8	X	67.00701	283.45700	74.66074	3.88801	0.3135694	0.32094573	2.11	1.45	2.78	Mc	—	—
402447 2006 BK_{55}	17.9	X	235.96742	299.41996	149.32429	45.47615	0.2014720	0.41721029	1.77	1.42	2.13	Mc	8 14.9	19.7
402756 2006 YC_{34}	17.2	X	170.50111	328.49862	81.31345	9.36629	0.3957281	0.23134332	2.63	1.59	3.67	Mc	5 1.1	22.4
402864 2007 RM_{136}	18.2	X	236.18733	55.45218	9.22993	2.38538	0.3306938	0.26884039	2.38	1.59	3.16	Mc	6 26.4	22.2
402867 2007 RT_{149}	17.8	X	294.37683	273.84924	102.61470	7.60873	0.3519291	0.27400704	2.35	1.52	3.17	Mc	6 16.5	20.6
402901 2007 TF_{36}	17.2	X	306.61225	79.95291	343.27922	21.57519	0.2944185	0.28533844	2.29	1.61	2.96	Mc	9 28.1	18.8
402946 2007 TN_{348}	18.1	X	339.19849	248.89201	135.14899	2.38989	0.2794529	0.28692318	2.28	1.64	2.91	Mc	11 21.7	19.0
403049 2008 AY_{36}	17.6	X	309.22491	199.99501	234.57043	4.81941	0.3220699	0.27783553	2.33	1.58	3.08	Mc	11 1.7	18.5
403198 2008 RV_{24}	16.8	X	68.48952	279.51775	359.18393	30.71227	0.2985452	0.31278135	2.15	1.51	2.79	Mc	11 3.3	20.7
403227 2008 UH_{229}	17.9	X	70.17321	244.22039	98.09552	2.62193	0.2370930	0.31619286	2.13	1.63	2.64	Mc	—	—
403242 2008 WD_{31}	17.9	X	35.44303	258.71264	49.23605	4.36153	0.2634065	0.29948350	2.21	1.63	2.80	Mc	11 16.3	20.3
403779 2011 QX_{68}	19.5	X	72.52026	194.76204	138.58340	3.12929	0.2619922	0.31924784	2.12	1.56	2.68	Mc	—	—
404151 2013 CQ_{33}	16.1	X	150.27082	248.81629	341.19435	22.22065	0.4883471	0.17714850	3.14	1.61	4.67	Mc	10 31.1	22.8
404316 2013 FA_2	17.3	X	66.27019	263.14925	79.52232	7.13491	0.2408827	0.31073136	2.16	1.64	2.68	Mc	—	—
404631 2014 HT_9	17.4	X	321.54811	262.31168	49.44898	6.77638	0.2712970	0.28569189	2.28	1.66	2.90	Mc	5 7.1	19.2
404670 2014 HD_{151}	19.3	X	47.99093	69.08796	241.95851	1.74708	0.2470185	0.31578535	2.14	1.61	2.66	Mc	12 6.2	22.0
404958 1998 DF_{11}	17.4	X	88.30674	152.22172	329.70517	30.97968	0.2664034	0.38803901	1.86	1.37	2.36	Mc	3 24.3	19.3
405007 2000 VJ_{19}	18.3	X	343.94346	304.19750	48.98103	6.33694	0.2873867	0.28049966	2.31	1.65	2.98	Mc	10 8.1	19.0
405019 2001 PY_{64}	18.3	X	97.52529	291.60703	335.67945	6.75204	0.2688934	0.30548390	2.18	1.60	2.77	Mc	11 24.5	22.0
405020 2001 QX	18.6	X	66.47695	160.54829	156.25076	6.86545	0.2496815	0.30587776	2.18	1.64	2.73	Mc	12 30.1	22.0
405044 2001 SB_{127}	18.1	X	347.67851	77.02217	346.91731	5.43717	0.3484090	0.30186051	2.20	1.43	2.97	Mc	—	—
405058 2001 TX_{16}	14.1	X	313.24375	53.55031	69.32968	8.13376	0.5997486	0.14581590	3.57	1.43	5.72	Jc	10 19.1	17.6
405072 2001 UT_8	17.8	X	38.35859	310.90533	17.57210	6.93858	0.2626100	0.30016147	2.21	1.63	2.79	Mc	12 17.2	20.7
405105 2002 BJ_{26}	18.0	X	340.74608	98.67019	336.99763	23.24800	0.3789497	0.29834497	2.22	1.38	3.06	Mc	—	—
405129 2002 HW_8	18.3	X	145.16674	29.88407	55.30205	5.83549	0.1765039	0.36429600	1.94	1.60	2.28	Mc	5 3.7	20.7
405198 2003 DU_{21}	16.4	X	169.19297	98.30835	6.36691	28.56692	0.3618705	0.23538506	2.60	1.66	3.54	Mc	7 4.6	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
405199 2003 DW_{21}	16.3	X	179.60586	75.97541	12.85756	27.77612	0.4127883	0.23566675	2.60	1.52	3.67	Mc	6 13.9	22.0
405200 2003 EE_{50}	18.0	X	179.60089	50.43909	8.82004	11.14364	0.2339338	0.39039276	1.85	1.42	2.29	Mc	4 30.4	20.8
405216 2003 QL_{59}	16.4	X	268.03100	73.61994	358.35742	11.14067	0.3671066	0.26847010	2.38	1.51	3.25	Mc	8 2.8	20.0
405352 2003 WM_{27}	17.5	X	312.28259	340.28731	348.49508	4.01523	0.3470858	0.26491926	2.40	1.57	3.23	Mc	5 3.6	20.4
405371 2003 YK_{121}	15.4	X	66.57032	114.83560	319.40517	23.17953	0.4783821	0.17692021	3.14	1.64	4.65	Mc	3 7.8	19.3
405397 2004 LB_{12}	18.7	X	315.36921	170.04558	145.83509	1.32354	0.2482665	0.40118180	1.82	1.37	2.27	Mc	4 24.7	20.1
405398 2004 LJ_{28}	18.6	X	27.34795	144.51929	177.93586	5.41403	0.2778832	0.29679986	2.23	1.61	2.84	Mc	11 28.5	21.1
405399 2004 OJ	18.3	X	27.46232	238.76783	111.42784	5.03861	0.2917446	0.29922429	2.21	1.57	2.86	Mc	—	—
405401 2004 PH_{35}	17.4	X	47.58622	290.58817	327.37397	23.59448	0.2786204	0.29219241	2.25	1.62	2.88	Mc	9 14.0	20.2
405403 2004 PJ_{50}	18.1	X	22.62727	341.69678	339.31411	9.27466	0.2691062	0.29514689	2.23	1.63	2.84	Mc	11 12.6	20.5
405421 2004 RB_{321}	17.7	X	23.70169	102.24196	239.73392	5.91120	0.2628792	0.29653878	2.23	1.64	2.81	Mc	12 16.9	20.1
405471 2004 VQ_{36}	17.9	X	24.99089	301.05576	43.81019	3.33564	0.2725928	0.29377452	2.24	1.63	2.85	Mc	12 23.6	20.4
405508 2005 BG_{2}	16.4	X	313.19099	68.86042	345.60752	23.35245	0.3449223	0.28519706	2.29	1.50	3.07	Jc	9 23.9	17.4
405571 2005 QE_{87}	18.3	X	211.54680	233.24526	157.90135	21.49072	0.1394457	0.41372834	1.78	1.53	2.03	Mc	4 28.6	21.0
405587 2005 SY_{14}	17.6	X	135.12613	249.29093	206.33724	5.63895	0.3919096	0.21887120	2.73	1.66	3.80	Mc	5 31.7	22.6
405776 2006 AP	16.7	X	251.68626	16.67670	114.25709	23.68310	0.2668817	0.29903715	2.21	1.62	2.81	Mc	10 29.2	20.0
405793 2006 AU_{80}	18.6	X	7.62496	267.44442	112.32824	6.05600	0.2780554	0.30725960	2.18	1.57	2.78	Mc	—	—
405895 2006 GJ_{40}	17.0	X	8.30911	84.45635	30.07399	22.95026	0.2779682	0.31467587	2.14	1.55	2.74	Mc	—	—
406186 2006 WQ_{117}	17.1	X	199.94384	132.01917	286.70244	15.10839	0.4027360	0.23841243	2.58	1.54	3.61	Mc	5 23.4	22.4
406221 2007 BO_{20}	17.5	X	128.00406	323.52166	119.06983	5.06254	0.4751231	0.22519364	2.68	1.40	3.95	Mc	5 17.7	22.6
406235 2007 BF_{73}	16.8	X	172.84265	97.18418	2.35126	28.32197	0.3671603	0.23476823	2.60	1.65	3.56	Mc	6 29.2	22.4
406420 2007 TF_{170}	17.4	X	338.41523	346.82415	355.29018	5.48307	0.3116248	0.27683510	2.33	1.61	3.06	Mc	8 16.9	17.8
406562 2007 YQ_{61}	16.7	X	320.34282	242.82914	185.01881	21.32021	0.2964547	0.28071906	2.31	1.63	2.99	Mc	12 9.6	18.4
406803 2008 UX_{64}	16.4	X	12.96076	182.52904	239.04917	8.84344	0.4970437	0.16372855	3.31	1.66	4.95	Jc	—	—
406813 2008 VA_{57}	19.9	X	85.75077	230.30288	129.94232	2.29790	0.2993539	0.32422762	2.10	1.47	2.73	Mc	—	—
407286 2010 GW_{140}	17.8	X	355.52199	56.74307	227.14093	4.93450	0.3165966	0.27352974	2.35	1.61	3.09	Mc	6 15.2	18.2
407740 2011 UX_{401}	18.6	X	82.25540	340.55965	316.53304	1.31899	0.2897315	0.30809305	2.17	1.54	2.80	Mc	12 22.2	22.0
407826 2012 BG_{13}	16.3	X	246.39658	265.31903	128.95775	21.91235	0.3375325	0.26269496	2.41	1.60	3.23	Mc	6 1.3	20.9
408742 2014 OF_{112}	16.9	X	315.20072	351.98961	339.52688	11.09628	0.3137705	0.26241801	2.42	1.66	3.17	Mc	5 15.6	19.9
408768 1998 SQ_{49}	17.9	X	86.28446	257.51022	41.92916	8.55511	0.3799232	0.30899219	2.17	1.34	2.99	Mc	—	—
408794 2000 GG_{186}	17.5	X	34.15188	282.80213	41.52130	7.73284	0.2986815	0.29267661	2.25	1.58	2.92	Mc	12 10.1	20.4
408795 2000 JH_{75}	17.4	X	133.97686	352.73476	217.69436	24.72284	0.2569726	0.29662750	2.23	1.65	2.80	Mc	10 12.2	21.4
408799 2000 SL_{55}	18.4	X	9.35509	325.94288	358.62496	2.14749	0.2891844	0.28317710	2.30	1.63	2.96	Mc	10 28.6	20.0
408825 2001 OF_{84}	16.5	X	196.13943	348.25188	329.34195	25.27425	0.5137528	0.22354448	2.69	1.31	4.07	Mc	2 3.9	22.3
408875 2001 TQ_{123}	18.1	X	23.36396	98.49637	257.20592	7.46422	0.2533816	0.30135820	2.20	1.65	2.76	Mc	—	—
408876 2001 TZ_{135}	16.4	X	191.39069	200.79238	261.04443	7.74676	0.4128226	0.23142457	2.63	1.54	3.71	Mc	7 9.1	21.6
409034 2003 MA_{2}	17.9	X	278.61767	47.44516	280.64571	15.67603	0.3341659	0.26326945	2.41	1.61	3.22	Mc	3 22.4	22.3
409214 2003 WV_{87}	17.2	X	287.09521	39.15012	103.72786	4.59542	0.3947421	0.27217626	2.36	1.43	3.29	Mc	12 8.9	18.3
409224 2003 YK_{34}	17.0	X	8.95527	227.96345	226.50997	2.69372	0.4783047	0.17060405	3.22	1.68	4.76	Ja	—	—
409263 2004 PN_{87}	17.8	X	40.97195	339.48188	13.69789	5.18041	0.2622707	0.29971631	2.21	1.63	2.79	Mc	—	—
409267 2004 RL_{17}	17.8	X	355.95214	1.27555	21.36866	7.08190	0.2565256	0.29572070	2.23	1.66	2.80	Mc	12 30.4	19.8
409296 2004 SV_{51}	17.5	X	40.04165	306.01336	53.61978	5.66538	0.2898329	0.29820975	2.22	1.58	2.86	Mc	—	—
409442 2005 QD_{5}	16.2	X	245.25947	13.06461	327.09774	18.09295	0.3857129	0.23015033	2.64	1.62	3.65	Mc	3 14.7	21.5
409800 2006 HP_{29}	16.9	X	333.75711	50.00391	215.56470	31.77833	0.3325112	0.25864959	2.44	1.63	3.25	Mc	3 5.1	20.5
409829 2006 OX_{21}	17.6	X	282.15484	270.73520	77.75629	5.86543	0.3339942	0.25346786	2.47	1.65	3.30	Mc	5 1.2	21.4
409959 2006 UF_{271}	18.0	X	248.63586	121.75625	230.32354	15.14484	0.3518618	0.24328933	2.54	1.65	3.44	Mc	4 3.7	22.9
409995 2006 WV_{3}	17.7	X	140.52714	357.26631	107.08381	12.85653	0.3219959	0.36501150	1.94	1.31	2.56	Mc	6 8.9	20.8
410002 2006 WW_{29}	16.4	X	164.11868	243.62092	210.03527	28.88832	0.3693788	0.23525082	2.60	1.64	3.56	Mc	6 11.9	21.8
410128 2007 GG_{11}	17.8	X	106.75038	246.48765	183.02650	24.86778	0.1764737	0.34723058	2.00	1.65	2.36	Mc	2 11.6	20.0
410186 2007 RH_{103}	17.7	X	47.98651	123.30793	191.90826	3.79047	0.3144369	0.29051964	2.26	1.55	2.97	Mc	12 15.7	20.9
410248 2007 TY_{72}	17.9	X	276.68089	219.75025	233.95148	7.55456	0.4252519	0.27374002	2.35	1.35	3.35	Mc	8 26.0	21.1
410302 2007 TR_{361}	17.2	X	345.31409	295.84049	46.90390	6.97284	0.3370589	0.27823453	2.32	1.54	3.11	Mc	9 26.4	17.5
410318 2007 TY_{434}	18.3	X	282.21827	20.19971	46.60901	7.97439	0.3862830	0.27611575	2.34	1.43	3.24	Mc	8 8.9	21.3
410326 2007 UQ_{11}	17.1	X	60.91575	245.11065	110.39140	4.45477	0.3167752	0.29558885	2.23	1.52	2.94	Mc	—	—
410352 2007 VC_{11}	17.4	X	336.16015	57.90731	283.67268	5.13651	0.2969965	0.27506344	2.34	1.65	3.04	Mc	8 3.4	18.4
410685 2008 WA_{59}	18.4	X	52.54093	112.86051	185.39742	5.71552	0.2468262	0.30531749	2.18	1.65	2.72	Mc	11 23.6	21.3
410778 2009 FG_{19}	18.0	X	139.40948	120.39676	187.53702	54.49995	0.7198517	0.19846132	2.91	0.82	5.01	Jc	1 6.8	24.8
411170 2010 EW_{80}	18.0	X	101.58819	124.70928	161.48164	6.96896	0.2474020	0.30617315	2.18	1.64	2.72	Mc	12 21.7	21.8
411199 2010 KW_{117}	17.4	X	356.89790	195.82074	97.96208	6.91171	0.3282071	0.27126371	2.36	1.59	3.14	Mc	7 16.9	17.5
411315 2010 TJ_{162}	16.9	X	155.91039	270.95469	188.60222	27.53377	0.3721141	0.23134907	2.63	1.65	3.61	Mc	6 16.1	22.4
411381 2010 VK_{65}	16.6	X	158.20888	276.77419	201.50116	26.99471	0.3964749	0.23283032	2.62	1.58	3.65	Mc	7 6.7	22.2
412512 2014 LY_{26}	17.3	X	15.64195	262.53795	83.88916	4.67172	0.2624043	0.29262341	2.25	1.66	2.84	Mc	12 10.6	19.6
412550 2014 NL_{25}	17.4	X	94.89424	127.80028	136.63395	5.87870	0.2517722	0.31283642	2.15	1.61	2.69	Mc	11 22.1	20.9
412575 2014 OK_{6}	16.4	X	308.09384	61.43173	164.88859	8.26449	0.4406808	0.24226175	2.55	1.43	3.67	Mc	—	—
412708 2014 OV_{294}	18.3	X	89.83462	105.50172	166.48330	7.36339	0.2437719	0.30271738	2.20	1.66	2.73	Mc	11 25.5	21.8
412869 2014 QP_{2}	17.8	X	35.71218	347.67223	275.43049	1.94898	0.2989469	0.28267194	2.30	1.61	2.99	Mc	9 14.9	19.8
412961 2014 QS_{290}	17.4	X	40.39989	200.53172	108.72363	8.69774	0.2571120	0.29601069	2.23	1.66	2.80	Mc	11 25.1	20.2
413010 2000 CV_{39}	16.9	X	279.13841	121.41377	289.35265	9.37789	0.3387753	0.25957069	2.43	1.61	3.26	Mc	7 16.9	20.0
413044 2001 QU_{108}	17.0	X	290.57142	73.00309	210.21130	28.62416	0.3621908	0.23436596	2.61	1.66	3.55	Mc	2 7.8	22.0
413192 2002 VY_{94}	16.8	X	36.56626	233.25040	280.87756	9.13502	0.6572257	0.16860730	3.25	1.11	5.38	Jc	6 18.5	19.8
413199 2002 YB	16.0	X	167.11114	274.53537	147.68341	27.53009	0.4396987	0.23458837	2.60	1.46	3.75	Mc	5 18.9	21.7
413303 2003 UC_{223}	16.5	X	250.94115	244.49621	237.51314	21.00782	0.3922273	0.26667445	2.39	1.45	3.33	Mc	9 4.7	20.8
413343 2003 XA	16.6	X	322.99269	74.31339	314.19385	8.37928	0.3272769	0.27215237	2.36	1.59	3.13	Mc	9 12.2	17.7
413386 2004 PL_{111}	18.3	X	79.70142	290.32123	35.38083	1.98140	0.2559588	0.30402881	2.19	1.63	2.75	Mc	—	—
413390 2004 RG_{96}	18.2	X	77.90572	98.07983	208.62566	5.02963	0.2536007	0.30227045	2.20	1.64	2.76	Mc	12 27.0	21.7
413578 2005 UM_{6}	18.7	X	113.21145	325.89690	256.88074	5.61998	0.0788226	0.42807369	1.74	1.61	1.88	Mc	10 14.4	20.3
413821 2006 QY_{104}	17.1	X	290.48103	99.76183	332.41478	20.00411	0.3688354	0.26264631	2.41	1.52	3.31	Mc	8 27.1	19.5
413907 2006 WO_{29}	16.2	X	258.04923	254.53116	116.46689	28.30685	0.3716450	0.23953256	2.57	1.61	3.52	Mc	5 16.4	21.3
413949 2007 AH_{14}	17.1	X	228.31864	117.14166	269.17336	3.65287	0.3542647	0.23841721	2.58	1.66	3.49	Mc	5 3.4	22.0
414008 2007 GN_{49}	16.7	X	173.18809	276.37765	189.98724	27.32102	0.4067597	0.23479127	2.60	1.54	3.66	Mc	7 2.9	22.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
414032 2007 PJ_{34}	17.5	X	42.38658	212.95065	107.30568	7.33486	0.2662920	0.29248791	2.25	1.65	2.85	Mc	12 11.2	20.5
414287 2008 OB_{9}	17.7	X	56.58324	238.57403	202.69826	13.49699	0.7586940	0.17172597	3.21	0.77	5.64	Jc	5 1.2	22.1
414586 2009 UV_{18}	16.0	X	9.87270	62.63957	86.78301	8.34062	0.6326858	0.17415171	3.18	1.17	5.19	Jc	—	—
414751 2010 FV_{97}	18.7	X	123.06300	273.22516	14.22094	5.76512	0.2279102	0.31353912	2.15	1.66	2.63	Mc	—	—
414993 2011 EA_{78}	17.0	X	166.01351	293.31689	188.35906	28.20837	0.3875450	0.22827594	2.65	1.62	3.68	Mc	7 16.0	22.7
415025 2011 QJ_{80}	18.4	X	115.43974	205.49502	218.05970	9.59159	0.1754835	0.34746341	2.00	1.65	2.36	Mc	2 16.5	20.4
415135 2012 DO_{54}	18.4	X	336.08844	255.71007	161.90983	10.67497	0.3363198	0.28824780	2.27	1.51	3.03	Mc	—	—
415473 2014 OC_{112}	16.9	X	324.96064	197.45465	129.38857	10.43118	0.3075321	0.26772360	2.38	1.65	3.12	Mc	6 4.1	19.2
415690 1992 UB	16.5	X	114.34711	294.58497	70.56380	16.24201	0.5678926	0.18015532	3.10	1.34	4.87	Ja	2 25.9	22.3
415729 1999 VL_{46}	16.9	X	146.91396	165.18637	235.33947	14.02339	0.4262404	0.20072076	2.89	1.66	4.12	Mc	4 3.6	22.5
415752 2000 OB_{22}	16.9	X	189.85058	195.24592	154.50713	17.32567	0.5310725	0.21261364	2.78	1.30	4.26	Mc	3 5.4	22.8
415754 2000 QU_{122}	17.1	X	322.82726	343.12505	337.78236	7.66910	0.2899150	0.27646543	2.33	1.66	3.01	Mc	5 18.2	19.4
415760 2000 RD_{103}	17.1	X	317.71342	104.14457	242.39782	5.84798	0.2981361	0.27789879	2.33	1.63	3.02	Mc	6 19.9	19.0
415761 2000 SF_{23}	17.9	X	21.24382	312.88601	15.92751	13.25940	0.3884066	0.28497681	2.29	1.40	3.18	Mc	12 11.1	20.9
415776 2000 VQ_{1}	17.7	X	320.25541	74.20801	48.79351	5.66775	0.3355358	0.28724064	2.27	1.51	3.04	Mc	—	—
415780 2000 WO_{10}	17.7	X	286.33151	356.15895	84.52671	15.17338	0.4226512	0.27688917	2.33	1.35	3.32	Mc	9 1.4	20.6
415794 2001 BR_{32}	16.1	X	238.48420	78.43685	138.62628	27.03463	0.4737503	0.22871751	2.65	1.39	3.90	Mc	12 18.9	20.9
415802 2001 JT_{2}	17.3	X	93.12663	231.78984	58.90436	43.38342	0.3320785	0.31061200	2.16	1.44	2.88	Mc	12 14.1	21.6
415811 2001 PK_{49}	17.7	X	261.21155	99.49330	222.33669	14.95991	0.4049692	0.23294772	2.62	1.56	3.68	Mc	3 3.6	22.9
415818 2001 QX_{151}	16.3	X	245.08626	82.10118	312.65510	27.67625	0.3624770	0.23426737	2.61	1.66	3.55	Mc	5 20.9	21.6
415841 2001 RS_{150}	18.2	X	103.13795	156.38708	164.15131	8.75413	0.2786458	0.30983808	2.16	1.56	2.77	Mc	—	—
415870 2001 SA_{276}	16.8	X	232.37999	103.15944	325.66794	28.39976	0.3635510	0.23486756	2.60	1.66	3.55	Mc	7 3.6	22.0
415872 2001 SN_{282}	18.0	X	102.01486	298.79444	46.33704	3.18241	0.2299582	0.31176172	2.15	1.66	2.65	Mc	—	—
415884 2001 TU	16.7	X	245.56894	114.00903	236.10417	27.88991	0.4005839	0.23237191	2.62	1.57	3.67	Mc	3 25.7	22.2
415913 2001 UQ_{63}	18.2	X	88.28365	5.79719	333.19827	1.61945	0.2369369	0.30780916	2.17	1.66	2.69	Mc	—	—
415975 2001 YS_{2}	17.1	X	268.93360	272.63443	249.11012	21.78216	0.2591039	0.29776883	2.22	1.65	2.80	Mc	12 28.9	19.0
415980 2001 YZ_{90}	17.5	X	321.86600	55.00376	89.94961	6.24933	0.3007608	0.30092449	2.21	1.54	2.87	Mc	—	—
415996 2002 AT_{69}	16.3	X	284.88378	83.42659	275.80745	11.63132	0.3811792	0.23711751	2.59	1.60	3.57	Mc	5 8.9	20.5
416187 2002 TP_{65}	16.5	X	229.61275	284.60466	71.82723	28.09428	0.3767710	0.24164509	2.55	1.59	3.51	Mc	4 14.7	21.9
416211 2002 UB_{31}	16.4	X	235.39797	268.09393	81.50953	27.71318	0.3827299	0.24074234	2.56	1.58	3.54	Mc	4 10.3	21.8
416223 2002 XJ_{69}	18.7	X	33.74112	191.32510	275.98523	25.17064	0.3174721	0.32450684	2.10	1.43	2.76	Mc	—	—
416261 2003 FD_{5}	17.4	X	162.22278	85.41837	67.26491	28.01588	0.3807790	0.23828859	2.58	1.60	3.56	Mc	9 5.9	23.0
416282 2003 KE_{31}	18.3	X	8.59420	150.03906	150.38492	8.28284	0.2881764	0.27844093	2.32	1.65	2.99	Mc	9 15.8	19.4
416286 2003 PR_{11}	17.3	X	120.44264	89.88177	295.63269	12.02396	0.5237969	0.18702640	3.03	1.44	4.61	Mc	3 7.7	22.9
416294 2003 QK_{99}	17.1	X	58.97906	308.89355	3.24634	23.85574	0.2787214	0.28264291	2.30	1.66	2.94	Mc	12 13.9	21.2
416296 2003 RM_{1}	17.8	X	7.75412	41.87042	338.61320	6.05269	0.2835314	0.27987804	2.31	1.66	2.97	Mc	—	—
416301 2003 RL_{26}	17.1	X	46.43825	83.43158	218.38946	21.54634	0.2951328	0.27925252	2.32	1.63	3.00	Mc	11 23.1	20.4
416386 2003 UW_{19}	16.8	X	341.20033	261.81978	82.96375	22.53579	0.3371964	0.26937974	2.37	1.57	3.18	Mc	9 25.6	18.6
416404 2003 US_{131}	17.6	X	23.35353	110.22564	255.09678	6.52483	0.3442651	0.27982062	2.31	1.52	3.11	Mc	—	—
416451 2003 VM_{12}	17.8	X	348.24257	287.18779	90.65955	7.83244	0.3124118	0.27413344	2.35	1.61	3.08	Mc	12 7.8	19.0
416470 2003 WD_{82}	16.3	X	123.02143	88.40394	277.78327	9.49918	0.4675497	0.18347859	3.07	1.63	4.50	Mc	2 13.8	21.8
416491 2003 WE_{158}	18.9	X	212.43226	257.64584	80.51244	4.50615	0.2785805	0.36006897	1.96	1.41	2.50	Mc	2 18.5	22.1
416501 2003 YU_{1}	18.6	X	102.46809	76.28635	287.33338	7.79683	0.2145418	0.45491638	1.67	1.32	2.03	Mc	—	—
416567 2004 EB	16.9	X	22.18548	238.36628	21.11219	21.10503	0.6586266	0.17900281	3.12	1.06	5.17	Jc	10 13.7	20.2
416588 2004 JS_{31}	17.5	X	115.14691	50.25205	268.70582	4.93893	0.3032278	0.31510873	2.14	1.49	2.79	Mc	—	—
416595 2004 NZ_{8}	16.2	X	204.01875	302.76935	84.61739	8.05386	0.5180226	0.21344588	2.77	1.34	4.21	Mc	4 23.4	22.1
416597 2004 OS_{4}	18.0	X	83.16926	29.55711	298.62894	5.16982	0.2473953	0.30684733	2.18	1.64	2.72	Mc	—	—
416676 2004 XO_{5}	17.0	X	77.26353	101.75706	270.02104	21.93994	0.3103046	0.30210548	2.20	1.52	2.88	Mc	—	—
416678 2004 XT_{5}	16.4	X	318.94502	151.88481	241.43769	26.32018	0.2893207	0.28583702	2.28	1.62	2.94	Mc	9 4.2	18.8
416694 2004 YR_{32}	17.6	X	23.90665	88.55716	90.34729	20.51535	0.7002031	0.18393452	3.06	0.92	5.21	Jc	7 6.9	19.3
416707 2005 AL_{69}	18.5	X	335.63482	69.97313	24.95175	1.24671	0.3285946	0.29308654	2.24	1.51	2.98	Mc	—	—
416741 2005 EX_{69}	17.7	X	81.71060	60.31317	98.09111	10.61607	0.4527972	0.19419814	2.95	1.62	4.29	Mc	7 12.9	22.4
416803 2005 GZ_{127}	17.7	X	291.00800	293.32186	193.00020	21.83755	0.3111220	0.28467763	2.29	1.58	3.00	Mc	12 14.9	19.6
416837 2005 JU_{134}	17.3	X	251.20929	119.11390	229.35061	28.41277	0.3983984	0.23693377	2.59	1.56	3.62	Mc	3 28.5	22.5
416843 2005 LA_{20}	17.3	X	299.65583	168.23528	136.04968	13.09079	0.3529129	0.23958219	2.57	1.66	3.47	Mc	3 24.6	21.3
417204 2005 XS_{39}	15.8	X	114.64236	253.13760	282.16707	13.99718	0.4021130	0.21630161	2.75	1.64	3.85	Mc	8 16.4	21.0
417422 2006 KZ_{42}	17.4	X	355.53070	77.90943	241.67457	12.02173	0.3025248	0.26786246	2.38	1.66	3.10	Mc	8 27.6	18.8
417444 2006 OE_{2}	18.4	X	126.02242	108.76158	114.25356	42.04196	0.1911773	0.40802688	1.80	1.46	2.14	Mc	11 24.0	22.1
417462 2006 QH_{55}	17.1	X	312.42936	73.39869	332.71413	12.13533	0.4071377	0.26344606	2.41	1.43	3.39	Mc	8 24.7	18.0
417527 2006 TD_{31}	15.7	X	1.00670	295.69585	38.12271	3.35571	0.2829195	0.12711613	3.92	2.81	5.03	Jc	9 17.2	19.5
417894 2007 RW_{40}	18.3	X	30.22584	322.92870	26.83382	3.55739	0.2629517	0.29085475	2.26	1.66	2.85	Mc	—	—
417966 2007 TX_{119}	17.6	X	136.90514	276.65554	53.57839	5.98867	0.2544757	0.30614550	2.18	1.63	2.74	Mc	—	—
417999 2007 TG_{400}	17.6	X	46.31466	211.07569	117.57995	7.79151	0.3273619	0.29050307	2.26	1.52	3.00	Mc	—	—
418073 2007 VT_{226}	17.3	X	11.01525	88.05933	246.42451	11.60281	0.2990049	0.28287900	2.30	1.61	2.99	Mc	11 18.8	19.2
418083 2007 VV_{307}	16.3	X	176.23796	267.39528	249.00730	20.07795	0.3152281	0.26331529	2.41	1.65	3.17	Mc	8 27.4	21.2
418111 2007 YD_{2}	18.5	X	13.23431	87.19337	313.59591	25.24991	0.2015625	0.43063980	1.74	1.39	2.09	Mc	—	—
418217 2008 CO_{166}	18.2	X	275.23457	139.05980	356.97145	20.05975	0.0698788	0.42450397	1.75	1.63	1.88	Mc	—	—
419534 2010 KT_{117}	17.7	X	85.71051	200.27530	93.61741	8.62033	0.2651862	0.29415125	2.24	1.65	2.83	Mc	12 17.9	21.3
419666 2010 TZ_{137}	16.7	X	243.96931	339.16332	42.80198	7.95828	0.3539406	0.23968652	2.57	1.66	3.48	Mc	5 9.0	21.3
420577 2012 HU_{24}	17.3	X	245.27755	299.37446	238.04844	21.09606	0.2783165	0.28334949	2.30	1.66	2.93	Mc	12 6.1	20.0
421450 2014 MF_{55}	17.3	X	91.26238	117.77521	231.10334	4.66290	0.3013132	0.31867553	2.12	1.48	2.76	Mc	—	—
421650 2014 OG_{338}	16.4	X	232.67794	238.51920	133.32905	7.88551	0.3905492	0.23542674	2.60	1.58	3.61	Mc	4 21.8	21.5
421771 2014 QB_{2}	17.1	X	268.80366	289.16625	102.77890	11.07841	0.3306315	0.25881233	2.44	1.63	3.24	Mc	6 12.9	21.0
421974 2014 QA_{297}	18.8	X	38.83439	286.58950	21.43909	1.95640	0.2600665	0.29677997	2.23	1.65	2.80	Mc	11 19.6	21.5
422341 2014 SW_{222}	18.7	X	110.46009	156.33397	163.94123	2.12071	0.2124460	0.32092118	2.11	1.66	2.56	Mc	—	—
422631 4165 $P–L$	18.1	X	25.13550	160.59499	209.24837	5.40459	0.2589372	0.29328993	2.24	1.66	2.82	Mc	—	—
422646 1996 RW_{13}	18.3	X	40.46181	2.09959	351.04180	5.58562	0.2763483	0.28268472	2.30	1.66	2.93	Mc	—	—
422648 1996 VW_{6}	16.6	X	268.06688	349.00830	356.08426	7.82519	0.3902249	0.22759678	2.66	1.62	3.69	Mc	4 8.4	21.3
422665 1999 TT_{39}	17.3	X	48.42063	307.67854	55.30728	11.69571	0.2960251	0.27671471	2.33	1.64	3.02	Mc	—	—
422666 1999 TK_{233}	17.3	X	184.63411	71.18949	255.82469	6.14935	0.3106625	0.29227357	2.25	1.55	2.95	Mc	1 21.2	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
422667 1999 TB_{289}	17.6	X	30.76295	216.23361	133.82251	2.30252	0.3095890	0.27353336	2.35	1.62	3.08	Mc	—	—
422669 1999 UF_{43}	17.9	X	9.01819	41.98509	329.86785	4.89642	0.2947467	0.27255329	2.36	1.66	3.05	Mc	—	—
422679 1999 VU_{225}	17.0	X	0.50487	254.50455	97.10581	7.91183	0.3614322	0.26961067	2.37	1.52	3.23	Mc	12 4.0	18.7
422707 2000 SX_{128}	16.4	X	16.42466	177.77071	252.92356	22.23889	0.2838208	0.29247074	2.25	1.61	2.89	Mc	—	—
422715 2000 WE_{6}	17.0	X	219.40935	274.09076	71.72486	11.44604	0.4830220	0.21526775	2.76	1.43	4.09	Mc	3 18.0	22.9
422716 2000 WA_{106}	17.6	X	52.20767	114.07192	240.72568	2.77485	0.2708655	0.28813937	2.27	1.66	2.89	Mc	—	—
422717 2000 YA_{28}	18.3	X	345.88888	284.05255	154.11228	7.32507	0.3675016	0.28552125	2.28	1.44	3.12	Mc	—	—
422719 2001 AU_{1}	17.4	X	28.42179	118.87515	278.19483	8.16515	0.3574581	0.28680089	2.28	1.46	3.09	Mc	—	—
422724 2001 FK_{58}	17.5	X	230.64972	163.29767	76.72676	4.73734	0.3986879	0.27622804	2.34	1.40	3.27	Mc	—	—
422729 2001 NC_{15}	16.8	X	321.29814	11.78658	335.94089	8.56621	0.3554714	0.24519024	2.53	1.63	3.43	Mc	6 18.8	19.2
422743 2001 SU_{111}	17.3	X	226.59041	120.99929	236.68654	6.60056	0.4546481	0.22967534	2.64	1.44	3.84	Mc	3 26.4	22.8
422757 2001 TL_{7}	17.1	X	281.31302	145.77917	232.75841	11.40433	0.3546964	0.24005741	2.56	1.65	3.47	Mc	6 4.7	21.1
422988 2003 SE_{41}	17.9	X	315.63377	109.43887	329.21624	6.60510	0.3507618	0.27536843	2.34	1.52	3.16	Mc	12 5.6	18.3
423162 2004 FD_{1}	17.8	X	131.78406	1.97775	354.84522	26.62452	0.0489863	0.44680939	1.69	1.61	1.78	Mc	—	—
423190 2004 NM_{18}	16.7	X	226.44354	158.11780	206.66808	4.06805	0.4090494	0.21669273	2.75	1.62	3.87	Mc	4 7.1	21.9
423399 2005 LX_{9}	17.3	X	224.28525	117.73054	113.45015	7.36159	0.3038601	0.28144058	2.31	1.61	3.01	Mc	—	—
423422 2005 PG_{10}	17.8	X	215.79485	150.50154	108.81138	6.63766	0.2954347	0.27867730	2.32	1.64	3.01	Mc	—	—
423487 2005 TM_{55}	18.3	X	187.70332	86.39302	311.83715	10.13644	0.2473256	0.34921296	2.00	1.50	2.49	Mc	4 9.9	21.7
423829 2006 ME_{10}	18.0	X	94.40890	28.02161	286.71536	8.21437	0.2935654	0.28232131	2.30	1.63	2.98	Mc	—	—
424003 2006 WD_{3}	16.5	X	8.94729	96.21914	263.62533	19.86256	0.3817029	0.26614001	2.39	1.48	3.31	Mc	12 31.2	19.1
424206 2007 PB_{33}	18.3	X	34.43627	242.87787	134.29283	4.02281	0.3236058	0.29563244	2.23	1.51	2.95	Mc	—	—
424207 2007 PL_{42}	19.3	X	212.75216	330.77827	319.45902	4.53512	0.1655223	0.46249751	1.66	1.38	1.93	Mc	—	—
424214 2007 RF_{36}	17.7	X	58.88113	32.46045	336.54235	4.34992	0.2609191	0.29851508	2.22	1.64	2.80	Mc	—	—
424271 2007 TE_{36}	17.2	X	71.10887	39.61224	346.62885	6.73401	0.2707709	0.30123496	2.20	1.61	2.80	Mc	—	—
424313 2007 TH_{370}	16.7	X	105.73984	38.55245	289.20186	7.81726	0.2623350	0.29937467	2.21	1.63	2.79	Mc	—	—
424355 2007 VU_{145}	17.7	X	112.09384	24.86526	301.58050	3.04935	0.2704147	0.29877145	2.22	1.62	2.82	Mc	—	—
424377 2007 WF_{4}	17.3	X	115.57631	74.41642	261.06533	6.05177	0.2897112	0.30122325	2.20	1.57	2.84	Mc	—	—
424460 2008 CC_{121}	18.2	X	309.31658	155.22117	359.75916	9.51250	0.2842541	0.28482360	2.29	1.64	2.94	Mc	—	—
425528 2010 OJ	16.9	X	43.56594	265.23863	88.45085	23.28125	0.3112209	0.28197088	2.30	1.59	3.02	Mc	—	—
425537 2010 PE_{45}	17.0	X	38.23666	15.62988	318.62280	5.65740	0.2939876	0.27630714	2.33	1.65	3.02	Mc	12 25.1	20.2
425665 2010 XT_{49}	17.8	X	133.44121	18.21053	293.83287	2.91566	0.2795015	0.29089282	2.26	1.63	2.89	Mc	—	—
425711 2011 BZ_{22}	16.4	X	112.78075	285.87761	310.77479	27.30357	0.3662093	0.23306812	2.62	1.66	3.57	Mc	10 15.1	21.8
426031 2011 QL_{12}	17.8	X	9.43053	63.93887	308.23716	14.17775	0.0832229	0.41145652	1.79	1.64	1.94	Mc	—	—
426057 2012 BH_{62}	18.5	X	156.44342	272.07789	132.76193	12.16198	0.2890156	0.34449509	2.02	1.43	2.60	Mc	4 5.7	21.8
426255 2012 QU_{2}	16.4	X	173.44430	309.96020	28.57732	24.41207	0.3294540	0.27334341	2.35	1.58	3.13	Mc	2 12.4	21.1
426362 2013 ND_{11}	17.7	X	147.19332	260.12270	35.10993	9.03127	0.3112583	0.29166375	2.25	1.55	2.95	Mc	—	—
426386 2013 PC_{21}	16.6	X	245.18231	235.41990	127.13853	11.79206	0.3978038	0.21588596	2.75	1.66	3.85	Mc	4 20.7	21.9
426481 2013 RY_{16}	16.3	X	83.89650	31.84833	352.96202	25.73845	0.2787391	0.28206692	2.30	1.66	2.94	Mc	—	—
426534 2013 RV_{67}	17.8	X	171.15387	248.16903	67.70389	7.35742	0.2665120	0.30369220	2.19	1.61	2.78	Mc	—	—
427494 2002 BK_{26}	18.0	X	81.90656	82.03580	329.12929	24.31006	0.1440901	0.45877910	1.66	1.43	1.90	Mc	—	—
427521 2002 JK_{20}	16.2	X	91.13014	212.29765	79.55926	11.59527	0.4102316	0.22413097	2.68	1.58	3.79	Mc	12 19.1	21.3
427580 2003 QC_{29}	17.7	X	113.28782	83.91595	163.06745	8.67142	0.4471468	0.23170368	2.63	1.45	3.80	Mc	11 15.8	23.0
427583 2003 QK_{103}	17.6	X	23.11990	225.96819	139.22945	10.75228	0.2821991	0.28145439	2.31	1.66	2.96	Mc	—	—
427584 2003 RK_{11}	17.9	X	70.82159	45.25502	317.92456	9.63181	0.2797596	0.28869920	2.27	1.63	2.90	Mc	—	—
427602 2003 SF_{219}	17.5	X	18.59259	247.47762	177.26152	22.49181	0.3211436	0.28525402	2.29	1.55	3.02	Mc	—	—
427624 2003 UN_{81}	17.2	X	46.44634	285.55735	80.96223	8.00799	0.2843935	0.28330004	2.30	1.64	2.95	Mc	—	—
427639 2003 UU_{257}	17.9	X	27.89399	303.32514	64.27477	8.12604	0.2815518	0.28000101	2.31	1.66	2.97	Mc	—	—
427861 2005 OV_{31}	17.5	X	177.98177	254.13989	32.92081	9.93684	0.3013803	0.27616031	2.34	1.63	3.04	Mc	—	—
427885 2005 SR_{218}	17.3	X	240.12802	347.30106	67.70807	8.52492	0.4038779	0.23143771	2.63	1.57	3.69	Mc	6 12.5	22.2
427914 2005 UF_{314}	17.5	X	319.30654	113.54179	225.38763	11.66934	0.1751526	0.36513553	1.94	1.60	2.28	Mc	7 2.1	18.9
428088 2006 OQ_{9}	17.7	X	201.61455	10.27797	309.19836	10.34884	0.2534066	0.30129953	2.20	1.65	2.76	Mc	1 22.8	21.4
428090 2006 PU_{32}	17.3	X	227.73726	317.44214	356.96124	25.46125	0.2515128	0.30536037	2.18	1.63	2.73	Mc	2 14.9	21.4
428116 2006 RZ_{87}	17.8	X	257.56155	113.95094	179.74461	6.54236	0.2728553	0.30608797	2.18	1.59	2.78	Mc	1 30.5	21.6
428223 2006 WW	16.1	X	138.17024	197.91844	88.24911	32.76622	0.8681878	0.22472937	2.68	0.35	5.01	Jc	—	—
428507 2007 XQ_{56}	18.0	X	50.97121	46.08951	5.97100	7.24901	0.2587168	0.29638085	2.23	1.65	2.80	Mc	—	—
428519 2008 AQ_{8}	18.6	X	40.34457	112.34560	299.38337	2.77803	0.2650057	0.29155623	2.25	1.66	2.85	Mc	—	—
428601 2008 ET_{92}	17.3	X	275.94676	68.80021	106.17085	21.73402	0.3111053	0.27698339	2.33	1.61	3.06	Mc	—	—
428658 2008 GJ_{82}	17.3	X	174.54653	147.87275	153.33276	6.48846	0.3314690	0.27148176	2.36	1.58	3.15	Mc	—	—
429192 2009 WM_{53}	17.2	X	232.69444	305.55561	94.43452	10.04717	0.4210167	0.22258616	2.70	1.56	3.83	Mc	5 22.7	22.5
429405 2010 TE_{48}	17.6	X	356.84740	210.00508	176.19632	7.03213	0.2901619	0.27440591	2.35	1.66	3.03	Mc	—	—
429463 2010 WY_{39}	17.2	X	22.58667	245.86260	119.10822	6.72269	0.3078387	0.27584506	2.34	1.62	3.06	Mc	—	—
429845 2012 QX_{40}	17.0	X	129.99688	295.08422	5.25265	11.13959	0.3547471	0.25767381	2.45	1.58	3.31	Mc	—	—
430305 2013 WX_{106}	17.0	X	316.17696	237.81959	127.67677	6.92221	0.3981720	0.23508874	2.60	1.56	3.64	Mc	6 27.2	19.4
430478 2001 SQ_{115}	17.9	X	102.56299	70.60604	337.16004	5.19708	0.3625907	0.31481550	2.14	1.36	2.92	Mc	2 18.5	19.7
430551 2002 GO_{171}	18.5	X	28.37204	46.96273	191.26131	10.47225	0.2160890	0.36668200	1.93	1.52	2.35	Mc	6 30.6	19.4
430559 2002 LE_{63}	17.9	X	220.73362	335.67541	339.25040	5.46402	0.2600117	0.29355058	2.24	1.66	2.83	Mc	2 2.2	21.8
430560 2002 NC_{32}	16.4	X	352.63652	124.06697	260.56886	22.42871	0.3482489	0.26441699	2.40	1.57	3.24	Mc	12 29.7	18.3
430587 2002 RL_{137}	19.2	X	264.08129	275.54333	337.88858	19.26213	0.1676839	0.44622022	1.70	1.41	1.98	Mc	—	—
430592 2002 SZ_{18}	17.6	X	222.36560	223.94973	89.93973	8.49189	0.2801810	0.29127082	2.25	1.62	2.89	Mc	2 3.2	21.7
430634 2003 RF_{10}	18.0	X	217.10158	322.97643	358.61854	8.64341	0.2415419	0.30592292	2.18	1.65	2.71	Mc	2 7.6	21.7
430663 2003 UO_{3}	17.1	X	3.59265	24.34547	20.97674	25.35793	0.3774617	0.28114708	2.31	1.44	3.18	Mc	—	—
430713 2004 EN_{9}	19.3	X	284.76234	131.75464	94.82624	6.72767	0.1369692	0.45054287	1.69	1.45	1.92	Mc	—	—
430777 2004 TS_{10}	17.5	X	59.21676	258.97839	187.58472	22.26138	0.3149873	0.30946617	2.16	1.48	2.85	Mc	—	—
430820 2005 GJ_{73}	17.8	X	297.36203	198.08953	66.32143	9.88957	0.3028236	0.29870544	2.22	1.55	2.89	Mc	1 28.9	21.4
430885 2005 QY_{141}	17.8	X	164.75876	120.09351	193.93662	5.95876	0.3070764	0.27393641	2.35	1.63	3.07	Mc	—	—
430904 2005 SA_{69}	16.7	X	171.21495	294.69360	7.08166	13.00064	0.2997459	0.27281921	2.35	1.65	3.06	Mc	—	—
430973 2005 WT_{91}	18.0	X	269.86394	298.44647	58.23984	10.21908	0.1878149	0.35644077	1.97	1.60	2.34	Mc	5 9.4	20.2
431145 2006 QZ_{87}	18.6	X	260.36735	133.68751	166.29914	3.03839	0.2357805	0.30892334	2.17	1.66	2.68	Mc	2 11.8	22.1
431148 2006 QR_{117}	18.0	X	224.83823	307.97383	350.02872	5.95145	0.2602675	0.30186774	2.20	1.63	2.77	Mc	1 15.2	21.9
431177 2006 SJ_{11}	18.1	X	242.85278	288.75412	29.19806	6.23468	0.2767028	0.30725476	2.18	1.57	2.78	Mc	2 21.9	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
431321 2006 WL_{130}	16.9	X	289.33369	82.34780	82.53824	18.41563	0.3132883	0.26815771	2.38	1.64	3.13	Mc	—	—
431625 2007 WX_{3}	19.1	X	281.90644	255.74261	27.64545	11.11236	0.1472348	0.46583920	1.65	1.41	1.89	Mc	1 27.9	21.0
431686 2008 DP_{34}	17.4	X	263.01464	271.88382	335.86372	21.33625	0.2801035	0.28633839	2.28	1.64	2.92	Mc	—	—
431704 2008 EF_{69}	19.6	X	290.51213	101.99398	18.33524	25.01931	0.1800327	0.42208031	1.76	1.44	2.08	Mc	—	—
431714 2008 ED_{131}	17.0	X	29.80988	267.44610	136.99318	5.78433	0.2985710	0.28204509	2.30	1.62	2.99	Mc	—	—
431821 2008 RL_{107}	17.5	X	173.08717	165.65493	147.98588	10.31496	0.3837797	0.26295933	2.41	1.49	3.34	Mc	1 6.4	21.9
432036 2008 WR_{61}	16.0	X	59.89308	78.51195	252.71220	16.13870	0.3752498	0.23637409	2.59	1.62	3.56	Mc	—	—
432037 2008 WS_{63}	16.1	X	332.28954	248.99083	75.30404	13.60197	0.3888073	0.21980935	2.72	1.66	3.78	Mc	6 1.5	18.3
432308 2009 TQ_{3}	17.2	X	138.17200	335.81684	2.08390	8.02864	0.2927692	0.27686080	2.33	1.65	3.01	Mc	—	—
432589 2010 RC_{103}	18.8	X	296.23136	103.60928	324.69984	1.29537	0.3316554	0.26551711	2.40	1.60	3.19	Mc	9 8.8	20.8
432616 2010 UQ_{92}	17.4	X	25.83066	3.64931	68.83295	10.78050	0.2859930	0.28729759	2.27	1.62	2.93	Mc	—	—
433018 2012 RM_{32}	17.8	X	155.06695	251.53792	41.35102	5.68022	0.3474841	0.26179880	2.42	1.58	3.26	Mc	—	—
433873 2015 BQ_{311}	12.0	X	261.57127	221.55655	117.04106	24.48537	0.2929332	0.05206854	7.10	5.02	9.18	Jc	4 26.8	21.1
433940 1995 QX_{9}	17.0	X	92.18355	229.27765	107.14757	8.32357	0.4395801	0.23886318	2.57	1.44	3.70	Mc	—	—
433959 1999 FQ_{19}	16.9	X	95.35341	251.59488	296.08801	8.33740	0.4612225	0.18744231	3.02	1.63	4.42	Mc	8 24.4	22.3
433961 1999 RL_{41}	17.0	X	10.53127	308.79643	11.95775	18.01796	0.5523676	0.18148717	3.09	1.38	4.80	Mc	11 15.9	20.1
433965 1999 SD_{10}	17.2	X	29.40917	228.35516	90.98845	6.00569	0.5449484	0.18442294	3.06	1.39	4.72	Mc	12 15.1	21.4
433986 1999 XB_{236}	18.7	X	55.94772	338.83235	58.06480	12.33416	0.1999163	0.41631840	1.78	1.42	2.13	Mc	—	—
433997 2000 SH_{52}	18.5	X	64.26638	40.94285	318.66321	2.63043	0.2646827	0.29328323	2.24	1.65	2.84	Mc	—	—
434013 2001 PF_{20}	18.1	X	165.65067	298.14818	43.58502	3.18320	0.3026037	0.27205999	2.36	1.65	3.07	Mc	1 28.9	22.0
434019 2001 RG_{9}	17.8	X	354.44042	106.23440	231.30479	13.75765	0.2794356	0.34610366	2.01	1.45	2.57	Mc	10 29.9	18.4
434052 2001 UP_{17}	17.3	X	173.72421	83.63604	223.29908	12.08475	0.4400074	0.26750765	2.39	1.34	3.44	Mc	—	—
434080 2002 AE_{2}	16.1	X	257.32916	315.02963	141.46405	33.51112	0.4206895	0.23551147	2.60	1.50	3.69	Mc	8 13.4	20.5
434084 2002 CA_{19}	17.1	X	218.99897	297.37902	211.87095	29.00394	0.3594092	0.23769318	2.58	1.65	3.51	Mc	9 19.3	22.1
434110 2002 OX_{22}	15.9	X	55.65857	113.96178	230.21478	29.48521	0.4046855	0.21851281	2.73	1.63	3.83	Mc	—	—
434113 2002 PV_{68}	17.5	X	324.55892	339.09642	265.89144	8.39416	0.3236314	0.30016286	2.21	1.49	2.92	Mc	1 23.3	20.6
434147 2002 RH_{156}	18.2	X	218.50130	23.93254	264.76018	1.85514	0.2871276	0.28833875	2.27	1.62	2.92	Mc	—	—
434165 2002 TP_{51}	17.6	X	177.41403	308.49830	41.83097	7.14802	0.3484975	0.28581220	2.28	1.49	3.08	Mc	2 20.0	21.8
434167 2002 TQ_{65}	15.9	X	134.52407	42.84686	46.70445	26.53972	0.4960250	0.17827428	3.13	1.58	4.68	Mc	5 25.6	22.1
434176 2002 UA	17.8	X	238.84710	292.78444	53.40347	22.51544	0.3376080	0.29539206	2.23	1.48	2.99	Mc	4 2.4	22.2
434177 2002 UP_{21}	17.2	X	261.08094	267.00671	67.80311	3.68375	0.2538179	0.29645299	2.23	1.66	2.79	Mc	3 30.5	20.7
434187 2003 AN_{2}	17.6	X	91.58779	224.17750	124.38777	26.65538	0.0933939	0.42195621	1.76	1.60	1.92	Mc	—	—
434197 2003 HH_{49}	18.2	X	287.39341	148.79402	173.11358	3.47951	0.2444698	0.32561688	2.09	1.58	2.60	Mc	4 5.2	21.1
434231 2003 SR_{280}	18.0	X	152.27393	88.79326	198.77265	6.05308	0.3591779	0.23960549	2.57	1.65	3.49	Mc	—	—
434242 2003 UA_{20}	18.6	X	274.54587	250.40354	221.28122	31.42372	0.1100754	0.55263455	1.47	1.31	1.63	Mc	—	—
434273 2003 WR_{46}	17.9	X	335.21199	79.88814	45.00630	21.63153	0.2780025	0.28338107	2.30	1.66	2.93	Mc	—	—
434380 2004 UX_{5}	17.5	X	80.25814	73.92851	34.92641	23.61074	0.2688323	0.31540701	2.14	1.56	2.71	Mc	4 5.6	19.4
434419 2005 MH_{4}	18.1	X	229.78536	214.32567	84.19345	6.81062	0.2953923	0.28847696	2.27	1.60	2.94	Mc	1 20.5	22.2
434431 2005 NC_{7}	16.1	X	342.50684	201.50787	164.30306	13.96079	0.5120938	0.18931090	3.00	1.47	4.54	Mc	9 16.8	15.7
434432 2005 NG_{7}	18.8	X	57.06221	3.55313	127.77387	19.95801	0.1336503	0.47528401	1.63	1.41	1.84	Mc	—	—
434451 2005 PV_{6}	18.1	X	214.23002	269.33788	61.43142	7.10728	0.2737505	0.28548722	2.28	1.66	2.91	Mc	2 19.5	22.2
434620 2005 VD	14.1	X	320.54865	178.15800	173.36266	172.87276	0.2505478	0.05726379	6.67	5.00	8.34	Jc	11 8.2	21.3
434640 2005 WE_{144}	17.8	X	174.55485	194.72211	171.82180	5.30384	0.2866007	0.27706161	2.33	1.66	3.00	Mc	3 3.4	21.8
434707 2006 CH_{49}	14.7	X	243.41202	270.78783	283.40356	7.66466	0.2790286	0.11145997	4.28	3.08	5.47	Jc	11 27.1	21.2
434762 2006 HA_{153}	14.3	X	189.69566	187.25495	61.58116	17.28665	0.0711906	0.10185253	4.54	4.22	4.86	Ja	12 23.4	20.9
434783 2006 MT_{14}	17.7	X	91.62939	84.57836	214.35341	7.52254	0.4651714	0.21426387	2.77	1.48	4.05	Mc	12 28.5	23.2
434828 2006 SX_{30}	18.9	X	280.96508	101.06732	199.68712	5.14644	0.2295398	0.31338143	2.15	1.65	2.64	Mc	3 2.1	22.1
434834 2006 SX_{56}	18.2	X	217.34496	274.21952	61.58352	7.08331	0.2436359	0.30358679	2.19	1.66	2.73	Mc	2 26.3	22.0
434882 2006 SM_{356}	18.3	X	262.17244	204.13386	132.92132	2.69509	0.2401054	0.31075761	2.16	1.64	2.68	Mc	4 2.7	21.6
434911 2006 TD_{63}	17.7	X	359.69247	85.25765	5.29251	8.47095	0.3236921	0.27508213	2.34	1.58	3.10	Mc	—	—
435185 2007 RU_{30}	17.2	X	86.68847	122.82053	239.61312	3.70646	0.3741517	0.23231901	2.62	1.64	3.60	Mc	—	—
435246 2007 TV_{24}	17.9	X	11.76349	97.63357	215.71798	26.80380	0.3306127	0.35182914	1.99	1.33	2.64	Mc	11 11.2	19.2
435323 2007 VB_{5}	17.2	X	117.49811	104.76206	210.69016	27.38361	0.3923602	0.23410368	2.61	1.58	3.63	Mc	—	—
435324 2007 VZ_{8}	16.9	X	105.08288	277.57333	65.31720	24.75497	0.4093032	0.23152787	2.63	1.55	3.70	Mc	—	—
435541 2008 OF_{3}	17.7	X	218.24104	156.45170	140.98487	7.15363	0.3013701	0.27320697	2.35	1.64	3.06	Mc	1 12.1	22.0
435608 2008 SL_{66}	17.7	X	212.34621	64.74112	230.38639	1.32932	0.3633256	0.26900419	2.38	1.51	3.24	Mc	1 7.5	22.1
436036 2009 MK_{7}	16.8	X	243.49198	96.61376	244.70142	26.02956	0.3430108	0.30334405	2.19	1.44	2.95	Mc	3 7.5	21.4
436063 2009 RG_{70}	17.4	X	258.32598	333.50389	343.06325	7.25041	0.2549624	0.30327944	2.19	1.63	2.75	Mc	3 2.8	21.0
436073 2009 ST_{100}	17.6	X	214.33362	62.57784	283.39427	6.64819	0.3020074	0.29637673	2.23	1.56	2.90	Mc	3 2.6	21.7
436163 2009 VO_{60}	16.8	X	296.31917	2.53294	56.33692	24.61338	0.4038410	0.23728532	2.58	1.54	3.63	Mc	8 22.4	20.4
436384 2010 TD_{19}	17.3	X	306.15369	257.21205	99.71768	31.63174	0.2777971	0.35044311	1.99	1.44	2.55	Mc	6 19.6	19.0
436616 2011 LC_{1}	17.3	X	129.23654	90.18721	194.25868	10.57711	0.3706675	0.23421828	2.61	1.64	3.57	Mc	12 31.1	22.6
436776 2012 MK	19.4	X	338.43985	98.07065	167.41438	3.71872	0.2911647	0.31992131	2.12	1.50	2.73	Mc	3 16.7	21.3
436777 2012 MQ_{2}	18.0	X	189.74574	302.31488	11.73339	4.55297	0.2882856	0.28036624	2.31	1.65	2.98	Mc	1 12.1	22.0
436802 2012 QA_{35}	18.4	X	265.89067	27.57747	253.52084	3.10971	0.2823445	0.29321171	2.24	1.61	2.88	Mc	1 23.3	22.3
436869 2012 TJ_{14}	17.5	X	250.64663	244.89206	66.37176	8.55752	0.2935123	0.29062493	2.26	1.59	2.92	Mc	2 21.7	21.6
436924 2012 TW_{102}	18.9	X	228.90527	93.65085	212.31155	6.88088	0.2779164	0.28322027	2.30	1.66	2.93	Mc	1 26.5	23.0
436947 2012 TK_{140}	17.5	X	233.50735	246.06045	66.22025	25.04377	0.2988863	0.28472594	2.29	1.60	2.97	Mc	2 16.9	22.2
436997 2012 TL_{219}	17.6	X	246.83894	148.67595	179.10580	8.13858	0.2951130	0.29318611	2.24	1.58	2.91	Mc	3 5.9	21.6
437313 2013 EK_{73}	13.2	X	59.71292	49.38471	141.15548	9.00182	0.5838969	0.02107174	12.98	5.40	20.56	Jc	8 12.1	24.4
437922 2002 NJ_{44}	18.4	X	250.23471	177.70491	156.31108	3.02829	0.2569463	0.29925538	2.21	1.64	2.78	Mc	3 18.7	21.9
437927 2002 PC_{117}	17.6	X	217.95534	34.38550	312.87580	5.80447	0.2707777	0.29327966	2.24	1.64	2.85	Mc	3 8.2	21.5
437975 2003 RW_{7}	16.4	X	164.11897	111.43956	201.42370	28.09369	0.4197129	0.24130509	2.56	1.48	3.63	Mc	1 1.1	21.7
437994 2003 UL_{12}	17.3	X	337.89261	275.25812	192.75981	19.80904	0.7024642	0.16575382	3.28	0.98	5.59	Jc	—	—
438008 2003 WR_{22}	16.8	X	104.84098	97.53650	251.18984	24.97274	0.4356226	0.23502525	2.60	1.47	3.73	Mc	—	—
438010 2003 WT_{25}	16.5	X	330.30622	244.80212	260.22047	21.68121	0.3168449	0.28481969	2.29	1.56	3.01	Mc	—	—
438018 2003 YQ_{17}	15.4	X	117.12378	76.49871	289.18721	26.61153	0.4249597	0.23281077	2.62	1.50	3.73	Mc	1 27.8	19.6
438035 2004 HT_{3}	17.4	X	260.16784	304.37517	30.35199	10.68708	0.2820663	0.28663537	2.28	1.64	2.92	Mc	3 29.4	21.1
438054 2004 PJ_{97}	17.3	X	213.19221	92.43761	247.48025	12.42601	0.3185063	0.26934818	2.37	1.62	3.13	Mc	2 22.4	22.0
438071 2004 RW_{123}	16.8	X	188.21267	139.51137	273.70094	9.27503	0.4188693	0.27012918	2.37	1.38	3.36	Mc	5 9.2	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
438096 2005 CX_{23}	17.6	X	249.65801	102.38621	143.33646	30.94765	0.2223980	0.41443001	1.78	1.39	2.18	Mc	—	—
438165 2005 SQ_{280}	17.5	X	246.62941	142.69454	168.77861	9.94202	0.2799383	0.28545859	2.28	1.64	2.92	Mc	2 15.0	21.4
438238 2005 VW_{29}	18.0	X	206.81183	293.41975	82.40494	3.41243	0.2802284	0.28414162	2.29	1.65	2.93	Mc	4 8.1	22.0
438319 2006 JX_{48}	17.2	X	153.18666	134.38039	140.69450	11.74083	0.3952801	0.22744399	2.66	1.61	3.71	Mc	—	—
438342 2006 QQ_{169}	19.1	X	327.61707	197.02609	111.85239	1.66027	0.2793909	0.32261270	2.11	1.52	2.69	Mc	5 9.0	20.4
438530 2007 TV_{65}	16.7	X	103.07877	144.58202	262.11139	6.96010	0.4595464	0.23613303	2.59	1.40	3.78	Mc	3 11.6	20.7
438693 2008 PL_{15}	16.8	X	107.17179	176.21697	202.28923	5.80585	0.3289968	0.25862229	2.44	1.64	3.24	Mc	1 19.8	19.7
438889 2009 SA_{313}	18.8	X	270.02762	177.86915	161.12132	3.77910	0.2348919	0.30895795	2.17	1.66	2.68	Mc	4 13.3	22.0
439007 2010 XV_{69}	18.2	X	348.99844	316.85630	173.32149	6.43645	0.3688951	0.28363685	2.29	1.45	3.14	Mc	—	—
439832 1995 OO_{5}	18.8	X	279.71495	197.97942	129.44835	1.20505	0.2961211	0.29618809	2.23	1.57	2.89	Mc	4 1.7	22.2
439845 1998 RJ_{54}	17.7	X	237.79597	189.31489	195.24575	7.35693	0.3004566	0.28981389	2.26	1.58	2.94	Mc	5 10.3	21.6
439848 1998 SF_{110}	17.4	X	153.84035	349.24774	351.32758	6.87382	0.3759057	0.23296616	2.62	1.63	3.60	Mc	1 29.5	22.0
439880 1999 XV_{223}	17.7	X	112.85192	300.91937	97.93745	7.36646	0.3587681	0.23936949	2.57	1.65	3.49	Mc	3 5.4	21.5
439885 2000 CD_{32}	17.7	X	329.69213	29.82274	139.38484	24.47866	0.2329185	0.41127370	1.79	1.37	2.21	Mc	—	—
439887 2000 MO_{6}	17.2	X	222.99611	353.21855	313.62907	4.81911	0.3162730	0.26503664	2.40	1.64	3.16	Mc	1 27.6	21.5
439890 2000 QA_{133}	18.0	X	167.66867	230.68175	138.58050	4.47831	0.3700085	0.26047769	2.43	1.53	3.33	Mc	3 8.8	22.4
439906 2000 WB_{192}	17.7	X	212.12742	235.98404	154.04143	8.28335	0.3173843	0.26605141	2.39	1.63	3.15	Mc	4 30.8	22.2
439914 2001 OF_{30}	18.1	X	244.83681	335.51944	10.01932	3.49209	0.2968613	0.28424935	2.29	1.61	2.97	Mc	3 27.5	21.8
439915 2001 OT_{77}	18.0	X	267.07654	334.89164	321.35379	5.90273	0.2804046	0.28338143	2.30	1.65	2.94	Mc	2 13.2	21.9
439919 2001 QF_{132}	18.3	X	225.97857	68.27550	284.43972	4.17194	0.2883065	0.28054619	2.31	1.64	2.98	Mc	3 21.0	22.5
439928 2001 RH_{12}	18.4	X	224.55251	7.14309	1.78225	2.29031	0.3065816	0.28163057	2.31	1.60	3.01	Mc	4 9.9	22.5
439931 2001 RT_{46}	17.6	X	335.34148	268.05216	151.80778	23.27148	0.3152847	0.34943826	2.00	1.37	2.63	Mc	—	—
439936 2001 SS_{37}	17.6	X	250.34424	333.17564	19.97740	11.22262	0.2794916	0.28269376	2.30	1.66	2.94	Mc	4 10.9	21.4
439953 2001 TV_{54}	18.4	X	235.37735	148.76204	210.44961	4.42826	0.2790784	0.28156357	2.31	1.66	2.95	Mc	4 6.7	22.2
439974 2001 WH_{15}	16.7	X	226.68483	92.95076	262.98829	20.86205	0.3413042	0.27627173	2.33	1.54	3.13	Mc	3 16.6	21.7
439994 2002 AK_{2}	16.9	X	136.01251	316.38538	152.70928	24.63862	0.3807441	0.27361360	2.35	1.46	3.24	Mc	6 18.5	21.7
439998 2002 CM_{4}	16.4	X	215.35162	243.71763	330.70473	26.69679	0.4339447	0.23726663	2.58	1.46	3.71	Mc	11 24.5	21.6
439999 2002 CX_{11}	16.9	X	200.86740	22.09967	167.68127	14.73273	0.4389105	0.23283371	2.62	1.47	3.77	Mc	10 27.3	22.1
440009 2002 JP_{2}	16.4	X	190.40626	103.21986	153.18025	28.48854	0.3605183	0.23452907	2.60	1.67	3.54	Mc	—	—
440017 2002 NP_{7}	16.4	X	141.79919	86.68255	267.88743	26.31442	0.4289355	0.23226564	2.62	1.50	3.75	Mc	1 29.6	21.4
440022 2002 OZ_{16}	17.3	X	121.90067	105.91197	264.76999	8.43767	0.4086267	0.22941935	2.64	1.56	3.72	Mc	2 8.3	21.6
440043 2002 QF_{24}	17.3	X	278.87706	46.79858	320.88177	27.81632	0.2701394	0.30635325	2.18	1.59	2.77	Mc	5 19.8	21.1
440074 2002 SZ_{19}	18.8	X	238.37905	171.03826	180.09727	8.81796	0.2743354	0.29639033	2.23	1.62	2.84	Mc	3 30.2	22.5
440135 2003 UJ	17.8	X	124.21033	303.45306	78.89316	9.22291	0.3564865	0.24149795	2.55	1.64	3.46	Mc	2 24.2	21.9
440174 2003 YF_{136}	18.3	X	256.86056	99.26231	265.32134	3.51263	0.2811392	0.31185979	2.15	1.55	2.76	Mc	4 28.1	21.6
440179 2004 BF_{41}	16.5	X	83.62975	113.19207	330.31540	26.75959	0.4119335	0.23475765	2.60	1.53	3.67	Mc	3 20.3	20.1
440242 2004 RX_{9}	18.0	X	171.35605	59.30027	5.13220	5.88195	0.4221372	0.26888725	2.38	1.37	3.38	Mc	5 13.7	22.8
440243 2004 RF_{10}	17.2	X	131.64359	291.71124	85.23018	9.62661	0.3532782	0.25715304	2.45	1.58	3.31	Mc	2 21.7	21.2
440254 2004 RV_{68}	17.3	X	152.21910	239.09208	175.14551	8.43847	0.3214298	0.26451438	2.40	1.63	3.18	Mc	4 18.7	21.5
440289 2004 RY_{217}	16.8	X	157.20601	107.32227	344.75283	20.31807	0.3716061	0.26714841	2.39	1.50	3.27	Mc	6 5.0	21.7
440623 2005 WH_{27}	18.5	X	265.37782	318.57465	40.52572	2.57764	0.2921774	0.29224415	2.25	1.59	2.91	Mc	4 29.8	21.9
440633 2005 WC_{71}	17.9	X	239.61380	58.68454	301.94270	3.80878	0.2990299	0.28853625	2.27	1.59	2.95	Mc	4 8.8	21.9
440680 2005 YW_{36}	17.9	X	45.77105	208.23017	188.64743	22.81434	0.5312134	0.19809900	2.91	1.37	4.46	Mc	—	—
440760 2006 EX_{41}	16.4	X	200.06864	265.62127	347.83545	26.81058	0.3970293	0.23494756	2.60	1.57	3.63	Mc	—	—
440799 2006 PZ_{9}	19.9	X	6.09609	173.34510	134.70142	4.45955	0.2897045	0.33057906	2.07	1.47	2.67	Mc	10 7.0	20.6
440904 2006 VA	18.8	X	350.00905	14.14259	287.21381	4.11247	0.3546145	0.32325966	2.10	1.36	2.85	Mc	6 21.4	18.1
440940 2006 YG_{25}	18.2	X	224.93309	290.31832	82.08043	6.52227	0.2518694	0.30263692	2.20	1.64	2.75	Mc	4 18.0	21.9
441144 2007 TV_{180}	17.9	X	148.09678	283.37968	63.59744	6.47425	0.3485204	0.24127174	2.56	1.66	3.45	Mc	1 29.8	22.2
441266 2007 VE_{323}	17.0	X	44.19206	130.79615	308.48902	5.83283	0.3846767	0.22721596	2.66	1.64	3.68	Mc	—	—
441344 2008 CD_{191}	17.9	X	1.71843	137.83556	139.51394	7.44738	0.2571425	0.31585054	2.14	1.59	2.68	Mc	6 28.6	18.4
441525 2008 SK_{220}	15.3	X	234.48012	195.66635	205.91287	8.21985	0.2420402	0.13157985	3.83	2.90	4.75	Ja	6 5.7	21.5
441531 2008 SH_{282}	18.0	X	218.18975	272.21592	61.41433	9.17831	0.3211879	0.27012391	2.37	1.61	3.13	Mc	2 28.3	22.5
441600 2008 UC_{201}	17.7	X	261.76903	57.44750	276.82448	4.88243	0.2838124	0.28174402	2.30	1.65	2.96	Mc	3 24.9	21.7
441622 2008 UP_{366}	17.7	X	238.35721	283.18073	65.73311	3.55032	0.2914949	0.27646516	2.33	1.65	3.01	Mc	3 29.2	21.7
441875 2010 AX_{128}	16.1	X	166.79126	272.66010	332.42244	21.66862	0.3941396	0.21984022	2.72	1.65	3.79	Mc	12 5.1	21.8
441952 2010 LR_{68}	18.3	X	359.16595	299.68508	109.07459	4.71189	0.5868038	0.18104207	3.09	1.28	4.91	Ja	—	—
442037 2010 PR_{66}	19.3	X	73.96624	319.52823	292.74763	17.58871	0.6869693	0.19675662	2.93	0.92	4.94	Ja	11 7.9	25.4
442148 2010 VC_{62}	18.7	X	350.97426	104.55627	261.71303	4.71292	0.2180710	0.36029496	1.96	1.53	2.38	Mc	12 7.1	19.6
442253 2011 PR_{1}	18.9	X	146.66008	41.69240	270.87204	7.28667	0.3928601	0.23932069	2.57	1.56	3.58	Mc	—	—
442442 2011 UD_{169}	17.1	X	160.21943	149.44743	169.80156	5.89628	0.4511822	0.23477825	2.60	1.43	3.78	Mc	1 11.6	22.1
442586 2012 BX_{150}	16.8	X	123.21534	29.23301	68.28826	13.95292	0.3651592	0.23944165	2.57	1.63	3.51	Mc	5 23.4	21.2
442628 2012 SH_{50}	17.9	X	351.26240	50.57885	231.44424	2.28091	0.2587567	0.31614569	2.13	1.58	2.69	Mc	5 27.9	18.2
442649 2012 TU_{124}	18.0	X	323.73392	228.93258	78.01882	5.28056	0.2611955	0.31058631	2.16	1.60	2.72	Mc	5 4.2	19.9
442715 2012 UQ_{166}	17.9	X	302.08316	56.60309	262.64965	7.04590	0.2468910	0.30684435	2.18	1.64	2.71	Mc	4 17.1	20.6
442721 2012 VB_{31}	18.0	X	263.21583	315.28462	80.10348	6.05496	0.2453984	0.30832908	2.17	1.64	2.70	Mc	6 20.2	20.9
442939 2013 CO_{74}	17.5	X	206.54819	272.73710	148.19346	22.46390	0.2875431	0.28489325	2.29	1.63	2.95	Mc	6 5.9	22.0
443158 2014 CX_{9}	17.9	X	231.81613	128.07296	2.81346	8.31029	0.1892675	0.34990614	1.99	1.62	2.37	Mc	10 7.6	20.1
443668 2015 HX	17.7	X	214.69015	190.98385	96.64516	7.05316	0.2937735	0.28283090	2.30	1.62	2.97	Mc	—	—
443674 2015 HN_{170}	18.9	X	301.88552	249.92692	39.34995	5.69708	0.3683390	0.30964690	2.16	1.37	2.96	Mc	2 25.3	22.2
443802 1997 RH_{13}	18.3	X	181.34713	242.12075	174.35173	5.06042	0.3395149	0.27362687	2.35	1.55	3.15	Mc	5 11.1	22.7
443808 1998 QP_{36}	17.2	X	160.31197	75.27669	281.71703	3.27913	0.3717067	0.23546531	2.60	1.63	3.56	Mc	2 18.1	21.9
443815 1999 TH_{84}	18.4	X	303.87125	301.24394	28.63805	6.73779	0.2440350	0.30697418	2.18	1.65	2.71	Mc	5 7.5	20.7
443831 2000 HV_{80}	17.7	X	246.79029	151.88822	141.51754	7.00154	0.4134483	0.26926506	2.38	1.39	3.36	Mc	1 23.7	22.5
443832 2000 OP_{60}	17.9	X	225.32641	184.42149	129.85318	4.80441	0.3160566	0.26497827	2.40	1.64	3.16	Mc	2 6.6	22.2
443842 2001 FA_{24}	16.8	X	195.96430	236.39087	7.59285	12.48667	0.4245007	0.22541413	2.67	1.54	3.81	Mc	12 20.9	22.1
443844 2001 HU_{18}	18.6	X	327.32712	60.66549	188.57778	7.64217	0.3107049	0.29029239	2.26	1.56	2.96	Mc	2 4.6	21.7
443854 2001 RM_{51}	18.1	X	234.35517	55.05181	353.13922	6.63309	0.4005864	0.28565230	2.28	1.37	3.20	Mc	5 29.7	22.5
443885 2001 UX_{135}	17.5	X	214.54468	349.11390	57.41065	8.62576	0.2837164	0.28063524	2.31	1.65	2.97	Mc	5 20.2	21.5
443892 2001 XT_{4}	17.5	X	229.60633	311.27820	49.65646	6.22330	0.4186348	0.27778860	2.33	1.35	3.30	Mc	4 3.4	22.1
443919 2002 QJ_{36}	18.3	X	324.01802	195.44213	107.95288	7.72367	0.2556734	0.30705967	2.18	1.62	2.73	Mc	5 2.8	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
443950 2002 XZ_{39}	18.2	X	173.14675	10.47807	82.29220	3.23868	0.4171667	0.29085336	2.26	1.31	3.20	Mc	6 18.9	22.6
443952 2003 BJ_{73}	16.7	X	43.78428	145.56726	332.53836	9.10394	0.4088811	0.22188334	2.70	1.60	3.81	Mc	2 23.1	17.5
443962 2003 QR_{42}	18.2	X	192.48229	252.44413	66.30879	0.22658	0.3541369	0.24885297	2.50	1.62	3.39	Mc	1 24.6	23.0
443992 2003 WT_{171}	17.5	X	151.30808	184.97542	202.80829	15.83631	0.3446526	0.24512418	2.53	1.66	3.40	Mc	3 15.9	22.2
443995 2003 XT_{12}	17.4	X	136.55727	72.01904	333.14680	10.41313	0.3508335	0.24275683	2.55	1.65	3.44	Mc	3 25.4	21.9
444031 2004 PQ_{16}	17.1	X	259.37975	251.89846	77.94831	5.93515	0.2950022	0.27695779	2.33	1.64	3.02	Mc	3 23.0	21.1
444163 2005 GU_{173}	18.0	X	4.33303	220.24714	49.82986	7.99050	0.2461611	0.31103243	2.16	1.63	2.69	Mc	6 21.5	18.6
444326 2005 WL_{35}	18.0	X	278.91783	332.75019	9.65911	0.21071	0.2771703	0.29174418	2.25	1.63	2.88	Mc	4 22.3	21.3
444657 2007 CY_{12}	17.7	X	197.39042	215.68695	239.81333	4.44240	0.3098894	0.30666974	2.18	1.50	2.85	Mc	7 7.3	21.5
444929 2008 AD_{138}	17.4	X	69.48929	279.35496	149.38318	7.46060	0.3922202	0.23063202	2.63	1.60	3.67	Mc	2 14.7	19.5
445024 2008 NT	17.9	X	276.48814	66.33129	287.07577	4.79085	0.2840428	0.29225960	2.25	1.61	2.89	Mc	5 1.9	21.3
445132 2008 VD_{64}	17.5	X	230.76838	30.77985	304.78876	11.54101	0.3147434	0.27665165	2.33	1.60	3.07	Mc	3 1.5	21.9
445269 2009 SU_{325}	18.9	X	343.51398	243.43418	71.89604	5.74861	0.3158753	0.32334422	2.10	1.44	2.77	Mc	7 5.0	18.7
445279 2009 WZ_{49}	17.0	X	186.29973	245.83117	315.25377	11.74703	0.4312710	0.22232574	2.70	1.53	3.86	Mc	10 23.8	22.5
445628 2011 SO_{229}	18.3	X	158.05948	274.71313	93.61451	13.74161	0.3632100	0.24440458	2.53	1.61	3.45	Mc	3 7.1	23.1
445657 2011 UZ_{70}	17.4	X	79.49208	31.63670	68.84116	15.72842	0.3774080	0.22965898	2.64	1.64	3.64	Mc	4 22.2	20.9
445777 2011 YU_{15}	17.6	X	57.30726	89.17437	40.17045	5.65603	0.4834528	0.22484263	2.68	1.38	3.97	Mc	5 10.6	20.1
445900 2012 VH_{82}	17.7	X	320.43239	61.87569	276.22787	6.47027	0.2940408	0.31381648	2.14	1.51	2.78	Mc	6 10.7	19.1
446010 2013 CB_{40}	16.6	X	220.56483	26.55357	331.43077	23.77317	0.2943022	0.27421927	2.35	1.66	3.04	Mc	3 16.8	21.2
446742 2015 PH	17.5	X	250.92558	234.57141	136.93014	23.48897	0.2429151	0.31169780	2.15	1.63	2.68	Mc	5 14.7	21.4
446816 2000 EE_{38}	17.4	X	342.01792	285.13157	199.58622	2.70491	0.5146432	0.18178804	3.09	1.50	4.67	Mc	—	—
446819 2000 RB_{53}	16.4	X	307.57927	85.21569	317.51723	26.36628	0.4307907	0.23206767	2.62	1.49	3.75	Mc	8 2.6	19.1
446825 2001 OM_{50}	17.9	X	274.74810	291.63627	46.84181	6.48564	0.3258419	0.28604871	2.28	1.54	3.02	Mc	4 10.5	21.5
446855 2001 UC_{72}	17.7	X	272.54228	221.05473	125.70528	8.17835	0.2811292	0.28481331	2.29	1.64	2.93	Mc	4 25.6	21.4
446876 2002 AB_{30}	17.6	X	214.13847	300.30877	127.75038	8.20893	0.3131801	0.28016885	2.31	1.59	3.04	Mc	6 15.8	21.8
446889 2002 JW_{82}	16.8	X	182.64563	251.69070	52.85796	29.54743	0.3663678	0.23760036	2.58	1.64	3.53	Mc	1 2.2	22.0
446895 2002 PQ_{63}	17.2	X	144.23642	245.74532	138.56602	7.99916	0.4445370	0.23263350	2.62	1.45	3.78	Mc	3 19.2	22.1
446987 2003 XY	16.4	X	76.41976	104.87662	49.35487	27.82046	0.4477531	0.23766651	2.58	1.43	3.74	Mc	6 29.2	20.7
447022 2004 NO	18.4	X	264.19221	197.27676	105.99396	8.00913	0.3577492	0.27529009	2.34	1.50	3.18	Mc	2 18.0	22.6
447146 2005 GZ_{25}	18.3	X	132.37395	338.55980	19.76760	18.23611	0.0878370	0.41213572	1.79	1.63	1.95	Mc	—	—
447172 2005 NQ_{76}	18.6	X	347.02032	172.22856	145.67908	5.10558	0.2338116	0.30809177	2.17	1.66	2.68	Mc	8 3.7	19.4
447175 2005 QZ_{50}	18.3	X	334.20812	140.62434	151.05858	7.41884	0.2969331	0.30117280	2.20	1.55	2.86	Mc	4 25.7	20.2
447281 2005 VQ_{13}	17.6	X	282.26014	194.28602	161.97812	4.76573	0.2762725	0.29641267	2.23	1.61	2.84	Mc	5 15.9	20.8
447334 2005 YA_{47}	18.2	X	244.23172	77.00145	307.56778	5.45467	0.2781769	0.28735885	2.27	1.64	2.91	Mc	5 14.2	22.1
447335 2005 YR_{49}	16.6	X	131.75994	245.01664	274.27649	20.48237	0.3432832	0.28558177	2.28	1.50	3.07	Mc	8 4.7	21.0
447562 2006 TM	18.1	X	19.05829	31.72696	224.21029	24.75990	0.1266536	0.45197452	1.68	1.47	1.89	Mc	6 21.4	19.1
447926 2008 AO_{4}	17.7	X	130.18567	106.62485	309.01844	5.93832	0.3911280	0.23963819	2.57	1.56	3.57	Mc	4 6.3	22.2
447945 2008 AR_{108}	17.3	X	149.65683	255.97392	135.54291	5.90010	0.3695861	0.24020491	2.56	1.62	3.51	Mc	3 25.6	22.0
447976 2008 CT_{116}	16.8	X	123.74232	267.40417	153.90587	27.73498	0.4211774	0.23461063	2.60	1.51	3.70	Mc	4 20.0	21.8
448077 2008 GF_{138}	18.9	X	342.55131	113.57800	176.37421	3.85688	0.2413082	0.30437516	2.19	1.66	2.72	Mc	5 22.5	20.1
448109 2008 NZ_{1}	17.8	X	347.20535	174.34711	108.74944	11.59000	0.2941533	0.29955992	2.21	1.56	2.86	Mc	5 17.4	19.0
448110 2008 NF_{5}	17.2	X	284.36630	86.64493	259.09846	5.54920	0.2754912	0.29141183	2.25	1.63	2.87	Mc	5 1.5	20.4
448120 2008 RF_{80}	16.9	X	230.30438	268.86047	93.27917	22.58229	0.3652231	0.28207579	2.30	1.46	3.14	Mc	4 16.3	21.7
448142 2008 SG_{137}	18.0	X	297.97754	334.18740	19.91417	6.38649	0.2887166	0.29126863	2.25	1.60	2.90	Mc	5 28.1	20.6
448182 2008 UO_{4}	18.7	X	219.07867	142.68801	227.05428	31.33672	0.2163571	0.43158715	1.73	1.36	2.11	Mc	3 21.4	21.8
448225 2008 VP_{3}	17.8	X	235.71942	316.14753	49.24484	12.25450	0.2895478	0.27934785	2.32	1.65	2.99	Mc	4 17.7	21.8
448443 2009 YL_{24}	18.4	X	208.48033	120.19012	305.35705	4.77174	0.2561474	0.30051700	2.21	1.64	2.77	Mc	6 8.9	22.1
448562 2010 RZ_{143}	18.5	X	209.15242	138.23300	186.75383	18.34248	0.1490492	0.41099948	1.79	1.52	2.06	Mc	1 10.6	21.1
448768 2011 SR_{33}	17.2	X	178.54013	326.86710	96.59549	7.67157	0.3827774	0.25754132	2.45	1.51	3.38	Mc	5 19.4	22.0
449086 2012 RY_{16}	18.9	X	320.04338	300.68964	3.91066	4.51664	0.3033819	0.31545392	2.14	1.49	2.79	Mc	4 12.5	21.1
449120 2012 YP_{1}	16.8	X	172.26232	308.00783	141.01189	24.95522	0.3167728	0.28386756	2.29	1.57	3.02	Mc	6 16.4	21.4
449465 2013 LT_{33}	17.9	X	57.04145	79.41322	236.45857	3.89827	0.2915708	0.27646824	2.33	1.65	3.01	Mc	12 20.0	21.5
449968 2015 PU_{12}	18.0	X	261.00744	71.92928	236.81374	9.25924	0.2820557	0.28349372	2.29	1.65	2.94	Mc	2 19.6	22.1
450003 2015 PT_{291}	19.7	X	337.36335	156.91420	176.84199	4.83055	0.3185333	0.32449379	2.10	1.43	2.77	Mc	7 21.7	19.8
450096 2015 RB_{93}	18.4	X	293.58188	122.30116	176.12464	23.19130	0.2810828	0.29537442	2.23	1.61	2.86	Mc	3 8.7	21.6
450138 1998 BO_{26}	17.2	X	128.71540	198.76364	326.58742	4.39562	0.3890897	0.26751519	2.39	1.46	3.31	Mc	8 19.3	21.7
450154 2000 AM_{49}	17.9	X	68.34431	113.15827	283.08898	19.00720	0.3201583	0.36989684	1.92	1.31	2.54	Mc	—	—
450158 2000 DW_{98}	15.8	X	173.29893	53.16889	356.55853	12.36710	0.3477297	0.24527776	2.53	1.65	3.41	Mc	4 23.7	20.7
450161 2000 YE_{29}	17.0	X	348.48043	48.60749	109.15061	14.39374	0.5213630	0.19267719	2.97	1.42	4.52	Mc	—	—
450196 2002 CZ_{288}	17.0	X	220.60292	99.64149	328.50829	21.77950	0.3297841	0.28106078	2.31	1.55	3.07	Mc	6 21.5	21.6
450205 2002 OP_{2}	16.7	X	161.32810	93.51150	285.27400	10.45582	0.3847644	0.23495091	2.60	1.60	3.60	Mc	3 12.2	21.8
450257 2003 WA	19.9	X	145.19126	190.55139	232.53558	11.83199	0.4219397	0.24737885	2.51	1.45	3.57	Mc	4 28.8	24.6
450274 2004 BQ_{102}	16.6	X	76.61217	53.05768	96.97641	26.89934	0.4023737	0.23683374	2.59	1.55	3.63	Mc	6 21.7	20.2
450292 2004 KU	16.2	X	71.23274	101.49660	93.85144	29.16727	0.3735276	0.23560236	2.60	1.63	3.57	Mc	8 13.4	20.4
450302 2004 QF_{24}	17.0	X	227.71941	99.79240	260.20674	20.67824	0.3240863	0.27179761	2.36	1.60	3.13	Mc	3 23.9	21.9
450356 2004 VB_{80}	18.1	X	143.30240	189.80319	269.20199	6.21933	0.3275364	0.26466760	2.40	1.62	3.19	Mc	6 4.9	22.4
450368 2005 CK_{62}	17.9	X	140.46617	134.96929	348.14777	5.42284	0.3221712	0.26236575	2.42	1.64	3.20	Mc	7 3.5	22.3
450405 2005 SW_{265}	18.3	X	263.96054	218.31589	152.85892	6.39063	0.2682773	0.29633266	2.23	1.63	2.83	Mc	5 18.4	21.7
450563 2006 FN_{36}	17.2	X	157.22977	267.95465	226.14653	20.63214	0.3170590	0.28226320	2.30	1.57	3.03	Mc	7 21.9	21.9
450795 2007 TE_{300}	16.3	X	276.51774	355.65799	40.26137	5.88363	0.2179099	0.12684374	3.92	3.07	4.78	Ja	7 11.5	22.0
450807 2007 UC_{9}	15.1	X	284.99790	14.71947	25.05313	19.74655	0.3089670	0.13033384	3.85	2.66	5.04	Jc	7 16.6	20.9
450884 2008 AU_{72}	17.7	X	148.17677	264.78485	158.62787	7.33374	0.3699928	0.24430827	2.53	1.60	3.47	Mc	5 1.4	22.4
450979 2008 SO_{28}	17.9	X	289.51874	38.90787	288.62062	1.94514	0.3212926	0.28908536	2.27	1.54	2.99	Mc	4 7.3	21.1
451043 2008 YB_{2}	17.3	X	171.46805	86.05271	39.46602	23.46777	0.3179367	0.27504953	2.34	1.60	3.09	Mc	8 4.9	22.1
451092 2009 BC_{186}	17.8	X	180.85442	72.80041	26.14759	22.00034	0.3364219	0.27252188	2.36	1.56	3.15	Mc	6 30.9	22.7
451124 2009 KC_{3}	18.0	X	25.81809	337.27759	340.07714	10.02364	0.6995000	0.17175912	3.21	0.96	5.45	Jc	12 28.5	23.0
451210 2009 VZ_{78}	17.7	X	288.85420	14.45103	325.20334	8.39999	0.2538323	0.31143818	2.16	1.61	2.70	Mc	4 26.7	20.6
451217 2009 XE_{11}	17.0	X	296.36038	107.72675	99.83516	14.06252	0.6109941	0.16324128	3.32	1.29	5.34	Jc	—	—
451251 2010 JN_{121}	16.0	X	152.72600	286.20598	77.71169	29.40530	0.3922900	0.23426190	2.61	1.58	3.63	Mc	3 9.2	21.4
451401 2011 KT_{12}	17.7	X	290.69030	168.69156	138.40604	12.84429	0.2936877	0.28346887	2.30	1.62	2.97	Mc	3 21.4	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
451574 2012 *AU*	17.0	X	113.94510	81.63842	56.11908	29.94208	0.3567381	0.24300379	2.54	1.64	3.45	Mc	6 30.4	21.8
451896 2014 JN_{54}	17.0	X	265.32489	284.88796	66.30012	24.67315	0.3105400	0.27759075	2.33	1.60	3.05	Mc	4 28.4	21.1
452140 2015 QR_{9}	17.9	X	153.37756	311.35480	72.76857	7.85124	0.3509102	0.24196252	2.55	1.66	3.45	Mc	3 20.2	22.5
452327 2000 SX_{162}	17.9	X	203.33004	74.89090	8.69997	6.33006	0.4502135	0.26953743	2.37	1.30	3.44	Mc	6 23.9	22.9
452337 2001 RB_{22}	18.4	X	271.32622	182.52446	173.35926	4.03602	0.2916504	0.28709607	2.28	1.61	2.94	Mc	5 2.6	21.9
452362 2001 VH_{125}	18.5	X	32.21047	328.31601	98.10320	7.63063	0.2217732	0.35689220	1.97	1.53	2.40	Mc	—	—
452384 2002 EV_{8}	18.5	X	348.04278	329.21758	346.52333	15.05770	0.1592183	0.47789364	1.62	1.36	1.88	Mc	9 1.9	17.7
452391 2002 NB_{67}	18.2	X	348.88493	338.57038	2.80075	0.48602	0.2466590	0.31410756	2.14	1.61	2.67	Mc	10 3.9	18.5
452407 2002 *SW*	16.4	X	165.51049	76.98005	314.20509	26.96591	0.4099616	0.23384887	2.61	1.54	3.68	Mc	3 19.8	21.9
452415 2002 TL_{181}	18.2	X	339.49666	123.89668	214.78892	2.82575	0.2369999	0.30965420	2.16	1.65	2.68	Mc	8 20.9	18.9
452419 2002 VQ_{85}	15.4	X	190.07314	102.65543	267.44705	27.19925	0.3839718	0.23274457	2.62	1.61	3.62	Mc	3 10.4	21.1
452435 2003 *GB*	16.2	X	133.43603	36.92360	188.35625	30.76553	0.4569575	0.18497778	3.05	1.66	4.44	Mc	10 29.6	22.4
452561 2005 *AB*	17.5	X	294.20992	63.75421	126.22250	8.15345	0.6546638	0.17056707	3.22	1.11	5.33	Jc	12 3.8	21.3
452592 2005 JJ_{177}	18.1	X	10.99253	195.37189	102.16962	9.86035	0.3611212	0.31224963	2.15	1.37	2.93	Mc	10 17.3	19.6
452651 2005 UP_{231}	19.1	X	319.46809	120.40493	211.31337	1.41863	0.2674291	0.29954514	2.21	1.62	2.80	Mc	6 4.3	21.0
452658 2005 UN_{472}	18.6	X	338.05288	86.28294	234.34993	5.45619	0.2503926	0.29990071	2.21	1.66	2.76	Mc	7 5.8	19.5
452666 2005 WP_{54}	16.6	X	118.05786	227.62392	265.84168	22.53048	0.3119605	0.28119162	2.31	1.59	3.03	Mc	6 26.5	20.3
452691 2005 YW_{3}	15.2	X	258.86202	66.34261	115.97870	22.51018	0.5390366	0.17949397	3.11	1.43	4.79	Ja	11 16.3	20.7
452773 2006 DM_{14}	17.0	X	67.63529	110.83012	316.82556	11.83857	0.5244149	0.19887339	2.91	1.38	4.43	Mc	3 10.9	20.3
453012 2007 PG_{24}	18.1	X	285.08498	104.79943	190.46598	5.33546	0.3078157	0.26555975	2.40	1.66	3.14	Mc	2 25.2	21.9
453207 2008 GO_{115}	17.5	X	72.29860	256.96322	224.39678	5.91896	0.4687152	0.23253038	2.62	1.39	3.85	Mc	5 19.0	20.7
453235 2008 PU_{3}	18.7	X	316.65314	99.69404	247.98446	5.62938	0.2576711	0.29858514	2.22	1.65	2.79	Mc	6 27.4	20.2
453242 2008 RG_{106}	19.0	X	319.41032	152.77679	168.15311	6.95946	0.2706506	0.29612064	2.23	1.63	2.83	Mc	5 18.9	21.1
453270 2008 SJ_{290}	18.7	X	246.98940	200.27966	164.42013	6.55600	0.2787245	0.28338473	2.30	1.66	2.94	Mc	4 24.9	22.6
453292 2008 TM_{179}	17.9	X	240.04700	267.88944	57.11130	14.57549	0.3257427	0.27758584	2.33	1.57	3.09	Mc	3 6.7	22.4
453319 2008 VM_{77}	17.5	X	187.89749	88.14470	72.95428	23.00115	0.2678558	0.28988843	2.26	1.66	2.87	Mc	10 7.0	21.9
453775 2011 HQ_{5}	17.6	X	66.03584	158.77579	99.51736	8.47195	0.3253785	0.31220338	2.15	1.45	2.85	Mc	10 28.9	20.9
453780 2011 KH_{6}	18.7	X	335.32251	122.05847	192.22317	1.64163	0.2501087	0.29960041	2.21	1.66	2.77	Mc	6 15.7	19.6
453807 2011 SM_{65}	17.4	X	236.59020	120.99190	229.05341	5.14709	0.3130406	0.26595587	2.39	1.65	3.14	Mc	3 25.9	21.9
454075 2012 UJ_{153}	18.3	X	291.18878	294.74604	220.62270	5.54301	0.3104696	0.34146184	2.03	1.40	2.66	Mc	—	—
454225 2013 JQ_{28}	18.4	X	147.94375	95.98195	82.15124	22.99767	0.3679298	0.28169853	2.30	1.46	3.15	Mc	9 28.0	23.3
454958 2015 TJ_{198}	18.4	X	338.18291	242.54494	56.28078	7.52823	0.2696337	0.31057584	2.16	1.58	2.74	Mc	5 19.2	19.3
455127 2015 VY_{72}	18.4	X	151.70703	107.44577	337.55799	2.31435	0.3192814	0.25958430	2.43	1.66	3.21	Mc	5 23.9	22.8
455149 1995 *LF*	20.6	X	162.99995	77.45453	130.24413	4.45384	0.4350972	0.28060535	2.31	1.31	3.32	Mc	10 29.7	25.3
455157 1997 YM_{3}	17.1	X	11.05995	77.95746	299.64376	3.85473	0.6584602	0.16414482	3.30	1.13	5.48	Jc	—	—
455165 1999 AL_{10}	17.0	X	128.86701	92.40114	335.77731	27.27484	0.3949133	0.23363188	2.61	1.58	3.64	Mc	4 8.6	22.1
455169 1999 KQ_{6}	16.9	X	27.66839	111.89223	132.07082	10.83211	0.4064939	0.22615040	2.67	1.58	3.75	Mc	8 17.3	18.8
455170 1999 ND_{5}	18.0	X	331.89664	234.72270	105.78536	6.67287	0.3614568	0.31250088	2.15	1.37	2.93	Mc	7 2.8	18.4
455172 1999 *QJ*	17.4	X	267.44979	15.66701	344.06416	31.87157	0.4386194	0.26007303	2.43	1.36	3.50	Mc	4 4.7	22.5
455174 1999 TD_{207}	17.2	X	58.67656	76.16905	336.26017	18.20587	0.4480332	0.19071238	2.99	1.65	4.33	Mc	1 26.9	19.6
455185 2000 EB_{107}	17.3	X	359.12645	43.54664	177.39391	25.21560	0.5826190	0.18608722	3.04	1.27	4.81	Ja	1 21.8	20.5
455189 2000 QM_{7}	17.0	X	259.64081	237.67159	170.03957	22.74115	0.3562696	0.27459289	2.34	1.51	3.18	Mc	6 22.2	21.4
455190 2000 QE_{25}	16.8	X	239.96579	237.98363	164.81281	11.44315	0.4469468	0.27056067	2.37	1.31	3.43	Mc	5 28.0	21.5
455195 2000 SR_{178}	17.3	X	268.75601	120.73906	217.59127	11.35151	0.4035090	0.22278117	2.69	1.61	3.78	Mc	3 31.1	22.2
455204 2001 FY_{6}	17.6	X	97.79467	78.23771	178.98993	7.30224	0.4152837	0.25976900	2.43	1.42	3.44	Mc	11 19.0	22.3
455211 2001 MS_{18}	17.8	X	303.75461	97.97399	238.93956	3.73931	0.3096906	0.29075901	2.26	1.56	2.96	Mc	5 8.8	20.3
455215 2001 PM_{35}	16.8	X	122.80110	104.45562	290.64531	28.14346	0.4424093	0.21916324	2.72	1.52	3.93	Mc	2 28.6	22.0
455217 2001 QD_{154}	17.7	X	278.77108	253.25898	167.19176	7.67047	0.3831851	0.29213414	2.25	1.39	3.11	Mc	7 22.9	20.8
455222 2001 RY_{29}	18.6	X	298.56241	196.11266	175.86702	4.91275	0.2797424	0.29187043	2.25	1.62	2.88	Mc	6 27.9	20.9
455224 2001 RW_{47}	17.6	X	268.61729	292.75105	104.08139	6.00999	0.4163958	0.28742691	2.27	1.33	3.22	Mc	6 9.1	21.3
455231 2001 SX_{111}	17.4	X	28.13761	340.30348	358.20757	11.22752	0.3445524	0.29932686	2.21	1.45	2.98	Mc	12 31.7	20.6
455236 2001 SG_{149}	17.7	X	257.02095	14.69244	343.52878	6.83192	0.3008700	0.28431235	2.29	1.60	2.98	Mc	4 18.6	21.6
455263 2001 UM_{221}	17.8	X	202.13481	69.08526	53.89395	20.06471	0.2919747	0.28427054	2.29	1.62	2.96	Mc	8 25.9	22.2
455265 2001 VS_{4}	17.1	X	348.21063	73.96625	270.15542	5.51037	0.3091550	0.29382001	2.24	1.55	2.93	Mc	10 4.9	17.7
455308 2002 *FF*	17.6	X	127.65941	177.45793	39.94542	8.51784	0.3614747	0.27583246	2.34	1.49	3.18	Mc	10 20.3	22.0
455311 2002 GO_{4}	18.6	X	160.59347	236.51340	320.67864	1.74512	0.3630755	0.27918538	2.32	1.48	3.16	Mc	10 14.5	22.9
455350 2002 RL_{115}	18.0	X	157.04350	165.34615	222.25207	4.50619	0.3689265	0.23545180	2.60	1.64	3.56	Mc	3 22.8	22.8
455376 2002 UE_{17}	17.3	X	172.78615	327.22290	63.31505	8.78442	0.3716994	0.23654441	2.59	1.63	3.55	Mc	4 9.6	22.3
455390 2002 *WK*	16.6	X	150.99984	110.01261	279.46121	27.53336	0.4354903	0.23306632	2.62	1.48	3.75	Mc	3 10.9	22.1
455394 2002 YP_{15}	16.4	X	171.83221	92.16022	321.38850	27.21791	0.3643110	0.23279358	2.62	1.66	3.57	Mc	4 17.9	21.9
455396 2003 AB_{20}	17.9	X	134.76154	228.46058	213.39158	7.28952	0.3667340	0.23230433	2.62	1.66	3.58	Mc	5 12.9	22.6
455398 2003 AW_{72}	15.0	X	119.39930	64.86560	69.17636	29.38872	0.3799577	0.22900092	2.65	1.64	3.65	Mc	7 2.2	20.0
455426 2003 MT_{9}	18.6	X	153.29805	200.73288	233.33705	6.82805	0.9220952	0.24455485	2.53	0.20	4.87	Ja	6 1.1	25.0
455428 2003 QW_{10}	18.5	X	222.42942	26.68704	351.01738	10.82943	0.2350234	0.42455322	1.75	1.34	2.17	Mc	4 8.2	21.0
455513 2003 WP_{97}	18.3	X	157.76238	349.81250	69.67783	10.43808	0.3391985	0.24902492	2.50	1.65	3.35	Mc	5 1.6	22.9
455514 2003 WF_{98}	18.1	X	139.52467	89.81972	270.73263	24.20439	0.1026408	0.45830684	1.67	1.50	1.84	Mc	—	—
455547 2004 HR_{43}	18.2	X	170.51872	311.17548	322.50756	3.68880	0.2446518	0.32015588	2.12	1.60	2.63	Mc	—	—
455556 2004 NW_{21}	17.4	X	267.53043	187.56112	132.47533	13.55216	0.2942525	0.27637171	2.33	1.65	3.02	Mc	3 18.2	21.4
455578 2004 RA_{216}	17.6	X	283.31227	72.15715	296.59185	9.10026	0.2828213	0.28153375	2.31	1.65	2.96	Mc	6 1.0	20.8
455672 2005 *DE*	17.3	X	337.75958	226.40427	335.32735	25.29610	0.4978004	0.17888617	3.12	1.57	4.67	Mc	—	—
455740 2005 JA_{14}	17.1	X	40.66547	289.59584	354.26631	10.11667	0.3684617	0.25608837	2.46	1.55	3.36	Mc	10 26.9	20.4
455766 2005 NU_{19}	18.9	X	333.52913	89.45513	268.02075	2.62760	0.2427888	0.30993794	2.16	1.64	2.69	Mc	9 8.9	19.6
456024 2005 YN_{93}	17.5	X	315.19143	310.01585	75.62046	7.08199	0.2682796	0.30111907	2.20	1.61	2.80	Mc	9 7.4	18.6
456025 2005 YQ_{94}	17.5	X	256.70249	341.41539	96.81305	27.38878	0.2536663	0.29652640	2.23	1.66	2.79	Mc	8 15.5	21.0
456237 2006 MM_{6}	17.3	X	80.96054	339.63247	302.21367	8.32226	0.3032029	0.27504827	2.34	1.63	3.05	Mc	11 28.6	21.3
456288 2006 SH_{77}	17.9	X	158.64196	281.55651	108.06065	6.15852	0.3743228	0.23131837	2.63	1.64	3.61	Mc	3 30.9	22.8
456561 2007 CE_{6}	17.2	X	153.98289	274.26350	102.53301	9.48584	0.3827591	0.22297355	2.69	1.66	3.72	Mc	3 15.5	22.3
456701 2007 RV_{241}	17.9	X	255.03126	161.30148	197.61341	0.73918	0.3112047	0.26532224	2.40	1.65	3.15	Mc	4 20.9	21.9
457261 2008 RY_{25}	16.7	X	65.76750	257.68150	9.77711	26.76344	0.4304549	0.23328320	2.61	1.49	3.74	Mc	10 29.1	21.4
457498 2008 VP_{2}	17.9	X	311.59257	337.11642	26.99243	6.61020	0.3143267	0.29531484	2.23	1.53	2.94	Mc	7 3.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
457499 2008 VD_4	18.2	X	2.02813	326.23040	25.32545	3.38378	0.2450037	0.30520555	2.18	1.65	2.72	Mc	11 23.1	19.6
458012 2009 WW_{105}	17.9	X	217.52625	242.84214	266.62752	14.64554	0.3879627	0.30799415	2.17	1.33	3.01	Mc	9 16.5	22.1
458145 2010 JH_1	16.8	X	208.48331	154.82671	183.38741	13.55275	0.4436370	0.23303258	2.62	1.46	3.78	Mc	2 24.4	22.3
458734 2011 OC_3	17.7	X	77.53855	155.20782	132.61378	6.52693	0.2291252	0.31441109	2.14	1.65	2.63	Mc	12 4.5	20.9
459156 2012 CY_{54}	17.7	X	110.06013	58.97382	166.20676	5.16399	0.3856042	0.25619699	2.46	1.51	3.40	Mc	10 18.6	22.3
459190 2012 DJ_{47}	17.1	X	147.06233	66.04522	329.50960	27.68280	0.4364234	0.23604765	2.59	1.46	3.72	Mc	3 18.3	22.3
459491 2013 CC_{128}	18.6	X	212.16414	154.68473	81.25293	2.99465	0.2317227	0.32933377	2.08	1.60	2.56	Mc	—	—
459561 2013 GM_{92}	18.0	X	129.42291	32.26209	235.72757	2.74157	0.3047349	0.29341650	2.24	1.56	2.93	Mc	12 19.1	22.1
459899 2014 MP_2	16.0	X	189.85067	301.33135	58.32122	7.67089	0.3511812	0.24052290	2.56	1.66	3.46	Mc	3 14.7	20.9
459915 2014 MC_{27}	17.4	X	265.77190	263.90918	127.96036	22.07000	0.2995674	0.28362725	2.29	1.61	2.98	Mc	6 15.9	21.2
461363 2000 GQ_{148}	13.2	X	182.74963	126.87315	351.74578	16.62195	0.1342238	0.07094238	5.78	5.00	6.55	Jc	7 29.8	21.3
461367 2000 QX_{160}	17.7	X	350.73395	78.02699	258.18449	4.22274	0.3009512	0.28222095	2.30	1.61	2.99	Mc	9 23.3	18.4
461369 2000 SK_9	17.4	X	248.29060	236.94210	200.07145	22.64940	0.2945065	0.27570161	2.34	1.65	3.03	Mc	7 20.8	21.6
461371 2000 SN_{171}	17.5	X	29.02446	327.47446	11.48877	9.64891	0.3569552	0.28604282	2.28	1.47	3.10	Mc	12 31.9	20.8
461374 2000 WS_{21}	17.9	X	237.77988	303.01471	107.33212	6.66207	0.3899863	0.27144627	2.36	1.44	3.28	Mc	6 6.5	22.2
461377 2001 FR_{127}	19.0	X	7.65862	277.12802	190.91857	28.33442	0.1103915	0.52630810	1.52	1.35	1.69	Mc	—	—
461419 2001 UH_1	17.0	X	253.34001	89.46051	40.09227	22.64969	0.3024013	0.29341648	2.24	1.56	2.92	Mc	10 16.9	19.9
461432 2001 WT_{15}	15.8	X	243.52690	112.48786	271.67123	26.65264	0.4432113	0.23365667	2.61	1.45	3.77	Mc	5 3.6	21.3
461506 2003 QE_{29}	17.0	X	5.62765	346.81932	350.92391	13.42668	0.2932621	0.27719995	2.33	1.65	3.01	Mc	11 3.5	19.0
461576 2004 PA_3	17.9	X	113.51344	356.48728	328.92692	6.61667	0.2466040	0.31088197	2.16	1.63	2.69	Mc	—	—
461579 2004 PU_{26}	17.7	X	83.82696	328.43628	5.22311	6.48656	0.3137833	0.30515301	2.19	1.50	2.87	Mc	—	—
461585 2004 RR_{110}	16.8	X	35.87936	93.38475	216.01457	26.65823	0.4150662	0.23634936	2.59	1.52	3.67	Mc	11 29.8	20.6
461590 2004 RS_{251}	18.2	X	237.11052	96.55958	351.01802	22.55868	0.3034725	0.28296858	2.30	1.60	3.00	Mc	8 6.9	22.2
461625 2005 EM_{36}	17.7	X	230.54198	282.79904	179.15682	21.42605	0.2965343	0.27418593	2.35	1.65	3.04	Mc	8 7.9	21.9
461634 2005 EF_{169}	16.6	X	140.88134	129.42324	168.83082	59.26724	0.3663608	0.28190102	2.30	1.46	3.15	Mc	—	—
461747 2005 UV_{155}	17.0	X	85.46838	285.93377	181.12400	9.66298	0.4160663	0.20842388	2.82	1.65	3.99	Mc	5 10.7	21.2
461769 2005 UN_{322}	17.1	X	214.01680	290.89183	85.69854	24.54760	0.2805307	0.28135453	2.31	1.66	2.95	Mc	4 25.5	21.7
461836 2006 CH	17.7	X	225.21615	84.85438	354.38050	23.14736	0.3119037	0.28889593	2.27	1.56	2.97	Mc	7 14.5	22.1
461907 2006 QF_2	17.4	X	10.42988	346.75073	331.45255	6.36863	0.3167862	0.26579088	2.40	1.64	3.15	Mc	10 18.9	19.2
461909 2006 QL_{53}	17.7	X	33.53973	320.89845	336.98297	5.33904	0.3173606	0.26726191	2.39	1.63	3.14	Mc	10 31.7	20.6
461911 2006 QS_{123}	17.2	X	204.14424	213.83653	169.06913	8.84029	0.4021750	0.23882757	2.57	1.54	3.61	Mc	4 17.2	22.3
461918 2006 RJ_{108}	18.9	X	349.76222	34.94267	188.86703	5.38295	0.2294784	0.37459044	1.91	1.47	2.34	Mc	1 26.2	20.4
461962 2006 UF_{64}	17.3	X	153.42347	213.32523	223.58527	7.83826	0.4271206	0.23181552	2.62	1.50	3.75	Mc	5 21.7	22.4
462097 2007 KQ_2	16.7	X	89.30967	5.82288	163.66080	13.74359	0.4033631	0.22083818	2.71	1.62	3.80	Mc	7 26.1	21.3
462102 2007 PN_{24}	17.7	X	109.56562	345.61996	312.38092	9.68510	0.3272171	0.30238752	2.20	1.48	2.92	Mc	—	—
462107 2007 RH_{11}	16.8	X	83.16531	307.89861	16.78334	28.98385	0.3065020	0.29752693	2.22	1.54	2.90	Mc	—	—
462801 2010 PX_{62}	16.9	X	142.11755	188.19025	215.29405	6.36554	0.4356735	0.22338949	2.69	1.52	3.86	Mc	4 5.9	22.0
462802 2010 PR_{74}	18.0	X	101.04932	148.73010	150.33622	6.17439	0.3229624	0.29316786	2.24	1.52	2.97	Mc	—	—
462811 2010 RY_{71}	17.9	X	119.90701	124.07062	176.44196	2.07562	0.2663785	0.29479604	2.24	1.64	2.83	Mc	—	—
463013 2011 GZ_{27}	18.9	X	319.31598	113.41936	136.16076	11.24275	0.1337685	0.38449421	1.87	1.62	2.12	Mc	2 5.8	20.3
463089 2011 SZ_{216}	18.2	X	201.96511	113.66330	348.68828	23.70809	0.3341945	0.27699500	2.33	1.55	3.11	Mc	7 27.8	22.9
463240 2012 FC	17.1	X	34.53764	74.32128	180.58582	26.63275	0.4152439	0.22858712	2.65	1.55	3.75	Mc	9 16.7	19.9
463293 2012 HO_{40}	16.1	X	58.30576	283.74355	255.67771	26.43073	0.3907165	0.22934437	2.64	1.61	3.68	Mc	6 30.9	19.4
463480 2013 PC_{74}	17.3	X	106.88114	340.53791	293.91499	8.40458	0.3093925	0.27413067	2.35	1.62	3.07	Mc	12 9.7	21.6
463666 2014 LH_{26}	18.4	X	36.90508	29.18745	165.41800	24.04546	0.0755750	0.41170963	1.79	1.65	1.92	Mc	4 8.0	19.6
463671 2014 OJ_2	18.3	X	44.02964	200.89527	147.51987	6.67340	0.2453461	0.30795109	2.17	1.64	2.70	Mc	—	—
464271 2015 TO_{67}	18.0	X	332.39003	331.87895	4.64323	5.89774	0.2402882	0.31408676	2.14	1.63	2.66	Mc	7 26.9	18.9
464508 2016 BR_{77}	17.0	X	103.90421	291.04982	330.21148	22.11401	0.2857403	0.28052053	2.31	1.65	2.97	Mc	11 14.2	21.5
464633 1999 TB_{46}	17.8	X	91.32746	119.81253	211.15132	8.86639	0.2814799	0.27933627	2.32	1.67	2.97	Mc	—	—
464644 2000 RO_{38}	16.8	X	9.36209	333.66840	352.74135	17.33400	0.4457216	0.23682330	2.59	1.43	3.74	Mc	11 13.1	19.5
464652 2001 GE_4	17.9	X	189.25713	24.24995	88.59299	5.48205	0.4245970	0.26114200	2.42	1.39	3.45	Mc	7 22.4	22.8
464655 2001 QA_{59}	18.3	X	110.46717	169.25134	179.78253	4.54469	0.2366956	0.31378911	2.14	1.64	2.65	Mc	—	—
464742 2003 PB	17.6	X	131.87251	87.63719	206.62477	5.96173	0.2736885	0.29367443	2.24	1.63	2.86	Mc	—	—
464743 Stanislavkomárek	18.4	X	171.34264	335.54490	294.08283	7.60571	0.2675766	0.29723917	2.22	1.63	2.82	Mc	—	—
464755 2003 SA_{220}	17.4	X	197.59997	176.48679	225.93127	17.92996	0.4504175	0.25401554	2.47	1.36	3.58	Mc	5 3.5	22.5
464764 2003 US_{20}	17.4	X	105.73749	278.81066	34.97420	9.03615	0.2732179	0.28654245	2.28	1.66	2.90	Mc	—	—
464815 2004 RV_{257}	17.5	X	327.83025	191.89427	187.51222	9.40977	0.2696463	0.28871444	2.27	1.66	2.88	Mc	9 29.8	18.2
464817 2004 SK_{29}	17.8	X	105.15367	342.55428	356.53092	7.21471	0.2324440	0.30831933	2.17	1.67	2.67	Mc	—	—
464831 2005 AR_{20}	18.2	X	265.25181	311.31563	118.96979	6.26927	0.2862783	0.27883562	2.32	1.66	2.98	Mc	8 5.3	21.1
464941 2005 UT_{397}	17.1	X	207.55564	346.17867	53.56207	9.63600	0.3957501	0.22431839	2.68	1.62	3.74	Mc	5 7.7	22.2
464984 2006 AA_{97}	18.5	X	297.38461	307.62679	147.37286	5.48554	0.2787953	0.30536176	2.18	1.58	2.79	Mc	11 23.8	19.3
465040 2006 QN_{62}	18.3	X	105.96739	183.37804	130.16260	4.42221	0.3246238	0.28261434	2.30	1.55	3.05	Mc	—	—
465098 2006 UQ_{217}	16.5	X	326.76843	240.28448	84.59821	22.22770	0.5903761	0.19077107	2.99	1.22	4.75	Ja	4 26.5	20.6
465210 2007 QF_{10}	18.8	X	144.48192	346.23973	315.94913	1.62443	0.2434817	0.30912769	2.17	1.64	2.69	Mc	—	—
465271 2007 TF_{107}	17.7	X	250.63114	92.30440	0.06386	21.69316	0.2963635	0.27592303	2.34	1.64	3.03	Mc	8 26.1	21.4
465293 2007 TR_{330}	15.9	X	329.93100	227.77142	229.43103	11.39609	0.4078981	0.14370101	3.61	2.14	5.08	Jc	12 10.6	18.5
465307 2007 UQ_3	17.8	X	318.33283	290.82115	50.36524	34.96182	0.2237644	0.41484075	1.78	1.38	2.18	Mc	6 8.9	19.3
465342 2007 VF_{205}	18.5	X	156.23858	248.02805	58.25209	1.65681	0.3148804	0.30774412	2.17	1.49	2.86	Mc	—	—
465402 2008 HW_1	17.3	X	51.11006	250.47047	127.71009	10.48514	0.9600290	0.23685951	2.59	0.10	5.07	Jc	3 22.9	19.7
465619 2009 FJ_{22}	18.3	X	222.70986	15.01216	191.20283	9.93223	0.3134960	0.29272925	2.25	1.54	2.95	Mc	12 15.0	21.6
465749 2009 WO_6	17.2	X	34.42738	30.37440	76.20678	28.76238	0.5821319	0.18191922	3.08	1.29	4.88	Ja	3 23.9	19.3
465914 2010 VQ_{152}	16.5	X	250.53264	97.74231	263.05163	15.67478	0.3755206	0.23967266	2.57	1.60	3.53	Mc	4 12.1	21.5
466084 2012 BK_{24}	18.1	X	247.49236	289.65757	129.59323	3.50777	0.3650090	0.27124328	2.36	1.50	3.23	Mc	6 25.5	22.0
466220 2012 TO_5	16.4	X	42.39741	242.09418	60.48359	14.75097	0.4205126	0.22692933	2.66	1.54	3.78	Mc	11 27.5	20.3
466268 2013 MQ_3	18.7	X	122.53154	113.24394	199.75983	4.01318	0.2852681	0.28991015	2.26	1.62	2.91	Mc	—	—
466277 2013 PH	17.5	X	123.74315	39.91043	274.91651	9.57879	0.2667617	0.28836010	2.27	1.66	2.87	Mc	—	—
466419 2013 TL_7	17.1	X	107.59341	124.33492	195.04409	21.65966	0.3014255	0.27603078	2.34	1.63	3.04	Mc	—	—
466513 2014 OW_{338}	18.4	X	47.81707	110.85164	317.70234	8.24336	0.1928448	0.34763419	2.00	1.62	2.39	Mc	—	—
467360 2003 SJ_{184}	18.2	X	115.90536	307.78223	10.11294	3.98074	0.2770912	0.29073730	2.26	1.63	2.88	Mc	—	—
467365 2003 WB_{26}	16.8	X	28.89222	286.45636	74.55344	23.33842	0.3246619	0.27645142	2.33	1.58	3.09	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
467462 2006 KK_{13}	18.6	X	173.12284	115.56223	167.14168	8.78213	0.3134769	0.29681575	2.23	1.53	2.92	Mc	—	—
467471 2006 QN_{113}	18.4	X	94.58829	284.62289	33.66414	4.99320	0.2854040	0.28103833	2.31	1.65	2.97	Mc	—	—
467488 2006 TR_{48}	18.3	X	80.86181	288.11826	39.03207	7.60459	0.2882485	0.27532320	2.34	1.67	3.01	Mc	—	—
467496 2006 VM_{63}	18.0	X	77.91568	280.05412	64.25458	0.37251	0.3514238	0.27633191	2.33	1.51	3.15	Mc	—	—
467550 2007 TY_{92}	18.2	X	64.75236	171.39437	188.47817	7.33214	0.2651179	0.29708777	2.22	1.63	2.81	Mc	—	—
467833 2010 RN_{90}	18.3	X	161.30259	34.64602	271.96638	4.02796	0.2743575	0.30601151	2.18	1.58	2.78	Mc	—	—
467845 2010 VR_{14}	16.8	X	79.57339	275.16966	52.58366	22.97145	0.2920142	0.28502920	2.29	1.62	2.95	Mc	—	—
467923 2011 YU_{28}	17.4	X	307.37618	291.36670	115.23680	24.24382	0.3124269	0.28623545	2.28	1.57	2.99	Mc	9 18.1	19.5
467984 2012 RM_{42}	17.0	X	32.60625	226.90049	101.14281	7.47432	0.4296926	0.23029964	2.64	1.50	3.77	Mc	12 20.9	20.8
468025 2013 MN_{6}	17.2	X	101.57082	38.47281	290.73145	11.29615	0.2990650	0.28603752	2.28	1.60	2.96	Mc	—	—
468045 2013 QB_{85}	17.9	X	85.94495	159.79695	182.30589	4.81957	0.2761996	0.28581631	2.28	1.65	2.91	Mc	—	—
468305 2015 YA_{8}	16.8	X	86.12945	57.43792	161.47472	15.81926	0.4723743	0.23554536	2.60	1.37	3.82	Mc	10 1.9	21.6
468436 2001 WO_{4}	18.5	X	13.87869	269.56952	243.32105	9.25181	0.2088755	0.36350681	1.94	1.54	2.35	Mc	—	—
468441 2002 ON_{24}	17.6	X	126.86024	77.13235	301.27182	20.43658	0.3928613	0.28167629	2.30	1.40	3.21	Mc	2 11.4	21.2
468449 2003 MF_{1}	18.1	X	177.31366	28.58730	262.82804	5.39157	0.3706282	0.30057625	2.21	1.39	3.03	Mc	—	—
468450 2003 OW_{16}	16.7	X	151.17606	106.98696	237.32687	21.24147	0.3758330	0.29832268	2.22	1.38	3.05	Mc	1 16.1	20.7
468494 2005 GY_{128}	18.0	X	212.92358	110.48928	89.49174	22.91542	0.3079392	0.27866520	2.32	1.61	3.04	Mc	11 30.4	21.9
468507 2005 NB_{6}	16.3	X	87.19449	69.81417	285.12511	20.52174	0.3053132	0.26724892	2.39	1.66	3.12	Mc	—	—
468647 2008 UC_{4}	16.3	X	32.23656	267.69402	75.73018	28.38689	0.4195528	0.23397584	2.61	1.51	3.70	Mc	—	—
468739 2010 UU_{7}	17.9	X	203.20779	10.40639	288.40667	5.65813	0.3622961	0.31154476	2.16	1.37	2.94	Mc	1 1.9	21.8
468804 2012 HF_{52}	17.3	X	29.50419	124.63008	195.36159	17.27276	0.3681557	0.24152416	2.55	1.61	3.49	Mc	12 1.7	20.8
468821 2012 TC_{15}	16.6	X	30.46313	335.52179	46.94338	8.55685	0.3611254	0.23508109	2.60	1.66	3.54	Mc	—	—
468826 2012 TL_{78}	16.5	X	52.34236	72.63344	270.60992	16.20564	0.3802119	0.23450054	2.60	1.61	3.59	Mc	—	—
468864 2013 PM_{5}	18.3	X	174.89504	29.33906	227.83650	2.20596	0.2611183	0.29278745	2.25	1.66	2.83	Mc	—	—
468917 2014 VS_{1}	16.9	X	165.20977	287.57484	172.12645	28.71702	0.3791727	0.23042829	2.63	1.64	3.63	Mc	6 23.5	22.6
469046 2015 AB_{260}	16.9	X	344.68098	280.31419	139.67073	20.83349	0.3167520	0.27856678	2.32	1.59	3.06	Mc	—	—
469191 2016 GU_{134}	17.9	X	268.67913	275.43493	185.41302	19.72962	0.2803458	0.29114142	2.25	1.62	2.89	Mc	9 23.1	20.2
469234 2016 JG_{5}	17.6	X	121.25133	204.91352	111.17472	10.73695	0.2857274	0.28920125	2.26	1.62	2.91	Mc	—	—
469276 1993 RQ	18.0	X	161.72132	0.09106	336.01070	9.85959	0.3252828	0.29874401	2.22	1.50	2.94	Mc	1 18.5	21.6
469307 1999 RD_{36}	17.7	X	33.17206	193.83124	179.94123	7.22125	0.3658583	0.23152057	2.63	1.67	3.59	Mc	—	—
469308 1999 RU_{103}	17.6	X	25.08367	75.99958	292.98762	4.60653	0.3933794	0.22995900	2.64	1.60	3.68	Mc	—	—
469329 1999 YJ_{5}	16.9	X	63.64185	108.50529	314.72002	22.90676	0.3512899	0.28188817	2.30	1.49	3.11	Mc	—	—
469338 2000 SF_{137}	17.6	X	28.51845	47.44553	296.10788	6.09852	0.3752247	0.23976981	2.57	1.60	3.53	Mc	12 30.1	21.1
469341 2000 SD_{291}	18.3	X	231.84417	93.18817	231.77629	2.99890	0.2447209	0.31177115	2.15	1.63	2.68	Mc	2 18.4	21.9
469346 2000 TN_{64}	18.5	X	210.81955	303.01400	336.92901	4.65867	0.3686516	0.30606124	2.18	1.38	2.98	Mc	—	—
469359 2001 HX_{13}	18.5	X	150.62500	85.48654	195.30833	3.19466	0.3651886	0.27006137	2.37	1.50	3.24	Mc	—	—
469366 Watkins	18.1	X	335.06093	220.47291	148.77102	11.11458	0.5447063	0.19630105	2.93	1.33	4.53	Mc	7 17.7	19.5
469369 2001 QO_{146}	18.1	X	131.04465	133.86247	142.05313	5.58217	0.3116580	0.26239013	2.42	1.66	3.17	Mc	12 25.9	22.6
469393 2001 TZ_{90}	17.2	X	10.47780	88.96516	211.72404	12.83684	0.4868276	0.19831531	2.91	1.49	4.33	Mc	10 13.5	19.1
469441 2002 GP_{126}	18.2	X	42.41290	259.93141	10.40203	6.05029	0.4677459	0.21444515	2.76	1.47	4.06	Mc	10 23.3	22.0
469446 2002 NL_{8}	17.7	X	151.85976	49.25765	279.36562	7.00995	0.3325839	0.28339556	2.30	1.53	3.06	Mc	1 1.9	21.2
469449 2002 OW_{19}	17.0	X	107.40479	100.18545	303.02009	19.47174	0.3824681	0.28186167	2.30	1.42	3.18	Mc	2 19.9	20.1
469457 2002 QE_{44}	18.0	X	145.95690	244.49708	101.28198	5.14926	0.2783945	0.28387493	2.29	1.65	2.93	Mc	1 11.9	21.2
469478 2002 TU_{2}	17.8	X	131.80653	312.25685	10.18777	4.69217	0.2858721	0.27768592	2.33	1.66	2.99	Mc	—	—
469483 2002 TP_{153}	18.2	X	140.32775	302.54026	8.17611	5.47699	0.3037340	0.27812960	2.32	1.62	3.03	Mc	—	—
469493 2002 XG_{10}	18.1	X	117.54584	302.20214	72.95934	8.97236	0.2945989	0.27843897	2.32	1.64	3.01	Mc	1 22.6	20.9
469502 2003 BZ_{20}	19.0	X	340.17669	117.13053	126.66681	29.31213	0.0527978	0.54824100	1.48	1.40	1.56	Mc	2 5.1	19.1
469503 2003 DY_{9}	17.2	X	1.69144	110.17014	10.27008	22.39955	0.3112957	0.26735628	2.39	1.64	3.13	Mc	—	—
469510 2003 MJ_{9}	16.5	X	23.66888	101.66415	242.67826	11.91905	0.3891046	0.22428347	2.68	1.64	3.73	Mc	12 23.2	19.9
469516 2003 RZ_{23}	18.3	X	179.55182	96.65615	226.00225	5.64950	0.2467185	0.30173352	2.20	1.66	2.74	Mc	1 6.9	21.7
469565 2003 VC_{3}	15.5	X	8.18419	95.77197	264.18479	26.85159	0.4674000	0.21823496	2.73	1.46	4.01	Mc	12 30.9	18.5
469640 2004 TC_{19}	17.8	X	61.96280	77.17331	281.81780	14.81914	0.3559306	0.24424849	2.53	1.63	3.44	Mc	—	—
469672 2004 XE_{2}	17.2	X	340.81291	136.84940	294.50132	5.37491	0.3730448	0.23423707	2.61	1.63	3.58	Mc	—	—
469676 2004 XW_{49}	16.0	X	34.31349	72.75256	262.27343	27.56992	0.4147779	0.23461981	2.60	1.52	3.68	Mc	12 27.3	19.8
469696 2005 CO_{62}	16.1	X	17.67904	70.47000	325.62022	27.89028	0.3747503	0.23374038	2.61	1.63	3.59	Mc	—	—
469699 2005 EP_{68}	16.6	X	342.69971	276.56946	178.06447	27.09512	0.4162281	0.23279163	2.62	1.53	3.71	Mc	—	—
469796 2005 SD	16.1	X	294.73516	91.04899	313.73543	21.11007	0.4939949	0.17696516	3.14	1.59	4.69	Mc	7 7.8	20.8
469834 2005 SL_{243}	17.6	X	51.71433	258.44326	147.70517	15.00208	0.3629594	0.26103451	2.42	1.54	3.30	Mc	—	—
470007 2006 OQ_{21}	17.8	X	148.73997	5.99937	352.11742	7.45532	0.2944377	0.29155082	2.25	1.59	2.92	Mc	2 1.6	21.2
470010 2006 QV_{130}	18.3	X	158.36869	240.60782	93.49275	7.18431	0.2814870	0.29444741	2.24	1.61	2.87	Mc	1 7.7	21.5
470068 2006 SQ_{273}	17.7	X	132.00450	5.69461	36.96111	5.94923	0.2713824	0.29266576	2.25	1.64	2.86	Mc	3 11.8	20.8
470069 2006 ST_{278}	17.4	X	188.87986	83.18578	248.28217	7.76445	0.2726564	0.29749072	2.22	1.62	2.83	Mc	1 26.1	21.2
470070 2006 SD_{281}	17.6	X	159.22284	243.70268	83.82404	6.01251	0.2914678	0.29066933	2.26	1.60	2.91	Mc	1 1.9	21.0
470092 2006 SM_{406}	18.4	X	167.51353	192.81229	121.70979	1.19925	0.2848944	0.29170209	2.25	1.61	2.89	Mc	—	—
470215 2006 WP_{29}	17.2	X	73.20096	295.84080	126.41617	22.77313	0.3787202	0.28439823	2.29	1.42	3.16	Mc	1 18.4	17.7
470258 2006 YV_{55}	17.7	X	93.42505	4.95997	39.11158	6.25998	0.2889514	0.28210026	2.30	1.64	2.97	Mc	1 24.0	19.7
470283 2007 DJ_{86}	17.9	X	82.47638	100.08477	353.38868	21.80197	0.3007537	0.28292916	2.30	1.61	2.99	Mc	3 17.7	19.8
470317 2007 PJ_{21}	16.8	X	60.64895	305.26133	337.34997	12.12016	0.4359824	0.22095041	2.71	1.53	3.89	Mc	11 17.1	21.5
470367 2007 TQ_{68}	17.1	X	308.41581	239.06130	215.65313	21.01851	0.3064370	0.28664554	2.28	1.58	2.98	Mc	12 16.9	18.4
470533 2008 DF_{23}	18.7	X	271.28955	117.44515	327.90123	20.15618	0.1592210	0.41414713	1.78	1.50	2.07	Mc	10 2.3	20.3
470691 2008 TC_{27}	17.0	X	281.00895	215.17805	311.48011	41.56990	0.3846850	0.29738901	2.22	1.37	3.08	Mc	—	—
470958 2009 QP_{1}	17.8	X	159.47675	148.05469	139.76783	8.97933	0.3197911	0.27987289	2.31	1.57	3.05	Mc	—	—
470976 2009 SU_{17}	18.1	X	69.94989	83.26665	317.50861	5.20022	0.3899183	0.26967529	2.37	1.45	3.30	Mc	—	—
470990 2009 SU_{108}	17.3	X	119.66032	13.87077	316.85132	9.38327	0.3678545	0.27387072	2.35	1.48	3.21	Mc	—	—
471006 2009 SK_{235}	17.7	X	126.06298	340.94433	15.85104	7.50231	0.3417314	0.27738857	2.33	1.53	3.12	Mc	1 16.1	20.9
471199 2010 SC_{19}	18.5	X	211.06994	177.61932	134.93875	1.35805	0.2265351	0.31742188	2.13	1.65	2.61	Mc	1 18.2	21.8
471216 2010 VT_{162}	19.0	X	182.80908	88.78635	260.86545	2.95425	0.2562265	0.31440192	2.14	1.59	2.69	Mc	2 10.9	22.5
471241 2011 BX_{18}	18.2	X	10.96532	303.96228	310.89773	14.55188	0.7294034	0.20195637	2.88	0.78	4.98	Jc	3 2.4*	18.2
471242 2011 BT_{23}	18.3	X	147.52016	250.25035	145.79358	2.82925	0.2427111	0.30394849	2.19	1.66	2.72	Mc	3 12.2	21.4
471502 2011 YO_{17}	14.9	X	61.31874	165.71959	302.90939	18.24946	0.1840516	0.11863270	4.10	3.35	4.86	Ja	3 6.8	20.4

* The additional opposition: 9 29.9, $V = 20.7$

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
471545 2012 KC_{13}	17.7	X	141.95552	217.23822	85.45109	3.34003	0.3010686	0.27135781	2.36	1.65	3.07	Mc	—	—
471612 2012 SR_{45}	17.9	X	8.93630	87.36278	351.00798	27.07892	0.4194838	0.23623314	2.59	1.50	3.68	Mc	—	—
472253 2014 NA	19.1	X	61.10637	245.26505	282.87225	14.86380	0.0576706	0.54374971	1.49	1.40	1.57	Mc	2 15.1	19.4
472261 2014 QH_{364}	19.0	X	164.16835	1.09914	155.70971	23.83921	0.0833166	0.42569797	1.75	1.60	1.90	Mc	9 12.5	20.6
473458 2015 XA_{55}	17.2	X	182.77496	58.91615	310.31689	10.64844	0.3838335	0.24413213	2.54	1.56	3.51	Mc	3 13.9	22.3
474129 1995 SM_{30}	17.6	X	31.33262	100.11840	347.97064	32.62536	0.4350526	0.23825684	2.58	1.46	3.70	Mc	—	—
474156 1998 XQ_{16}	18.1	X	48.35330	152.05688	315.06790	9.04476	0.4317016	0.26963015	2.37	1.35	3.40	Mc	1 13.1	17.3
474171 1999 TY_{193}	17.4	X	10.06726	86.80793	17.10355	7.12662	0.4286346	0.23249836	2.62	1.50	3.74	Mc	—	—
474181 1999 VP_{79}	17.3	X	80.94116	113.78712	219.50283	28.15291	0.3797110	0.23384012	2.61	1.62	3.60	Mc	—	—
474189 1999 XW_{8}	16.2	X	45.70268	285.37521	70.71608	28.75500	0.4124006	0.23055064	2.63	1.55	3.72	Mc	—	—
474190 1999 XX_{14}	16.9	X	81.33590	51.08882	87.56276	24.82867	0.3329872	0.28867686	2.27	1.51	3.02	Mc	6 2.3	19.7
474202 2000 KO_{6}	18.1	X	240.33651	78.41989	215.41354	4.38074	0.3433565	0.31437078	2.14	1.41	2.88	Mc	1 16.9	22.0
474203 2000 QR_{199}	18.3	X	208.35074	200.03152	148.40884	3.54922	0.2492621	0.31183346	2.15	1.62	2.69	Mc	3 3.0	21.9
474204 2000 QE_{203}	18.4	X	207.62739	162.85406	146.18776	6.07127	0.3123347	0.30873769	2.17	1.49	2.85	Mc	1 14.8	22.4
474205 2000 SJ_{35}	18.5	X	234.87833	173.69962	149.95399	2.94891	0.2493074	0.31267431	2.15	1.61	2.69	Mc	2 20.3	22.1
474225 2001 DB_{4}	16.8	X	63.41336	77.00700	334.33353	26.03197	0.3787387	0.24356634	2.54	1.58	3.50	Mc	—	—
474263 2001 TO_{46}	16.8	X	92.05870	303.96749	138.62704	23.15882	0.3613392	0.26575465	2.40	1.53	3.26	Mc	4 9.1	20.3
474277 2001 UD_{1}	15.8	X	49.64766	123.59614	327.50422	21.83980	0.3547043	0.26346118	2.41	1.56	3.26	Mc	—	—
474278 2001 UT_{17}	18.7	X	329.14198	342.16452	48.17772	30.39902	0.2525858	0.39635655	1.84	1.37	2.30	Mc	12 7.8	19.5
474295 2001 XX_{10}	18.0	X	198.85586	345.64322	88.80745	38.36378	0.0090473	0.53006057	1.51	1.50	1.53	Mc	6 15.4	18.0
474348 2002 QR_{3}	18.4	X	161.04166	43.78215	286.74221	5.02672	0.2790610	0.28445072	2.29	1.65	2.93	Mc	1 6.9	21.7
474350 2002 QN_{52}	19.0	X	168.74957	167.61016	148.97423	6.44494	0.2746379	0.28442487	2.29	1.66	2.92	Mc	—	—
474366 2002 RO_{85}	17.8	X	146.26914	358.54572	356.21342	5.64906	0.2941917	0.28305433	2.30	1.62	2.97	Mc	1 26.8	21.2
474370 2002 RT_{157}	17.6	X	326.58827	78.78894	344.37933	6.88018	0.4335557	0.20781041	2.82	1.60	4.05	Mc	10 28.8	18.5
474392 2002 TF_{157}	17.7	X	109.45074	272.98121	116.38464	7.59634	0.2821191	0.27966964	2.32	1.66	2.97	Mc	1 27.2	20.0
474401 2002 UY_{13}	18.9	X	119.60172	341.38208	61.57370	9.81615	0.2831480	0.28205268	2.30	1.65	2.95	Mc	3 4.5	22.1
474412 2002 WT	16.6	X	113.42839	94.28316	311.18912	23.06407	0.3007139	0.27936562	2.32	1.62	3.01	Mc	2 18.9	19.7
474424 2002 YZ_{1}	17.2	X	89.93264	82.29835	27.79856	21.62906	0.2945065	0.28009323	2.31	1.63	2.99	Mc	4 22.6	19.8
474436 2003 GF_{53}	16.8	X	78.84893	103.55153	202.68597	27.50127	0.3946159	0.23552225	2.60	1.57	3.62	Mc	12 25.3	22.0
474440 2003 NH_{5}	18.4	X	268.22446	80.90145	195.92273	4.89118	0.2748316	0.31443452	2.14	1.55	2.73	Mc	1 17.3	22.0
474441 2003 OE_{13}	17.1	X	84.49804	353.29937	312.35884	5.83127	0.4354350	0.23216918	2.62	1.48	3.76	Mc	—	—
474442 2003 PQ_{9}	17.6	X	28.31554	215.51409	154.78788	9.19693	0.4287612	0.22707083	2.66	1.52	3.80	Mc	—	—
474443 2003 QJ_{5}	17.0	X	89.94013	120.96545	184.12140	28.28988	0.3963374	0.23316086	2.61	1.58	3.65	Mc	—	—
474518 2003 UD_{210}	18.0	X	172.87592	320.85214	21.71546	3.87874	0.2616885	0.29979297	2.21	1.63	2.79	Mc	1 29.5	21.4
474536 2003 WS_{12}	18.2	X	187.08785	302.21376	49.93336	8.54090	0.3292555	0.30312835	2.19	1.47	2.92	Mc	2 27.2	22.2
474538 2003 WT_{21}	16.6	X	199.92860	103.09568	241.45613	38.86177	0.2494606	0.30345570	2.19	1.65	2.74	Mc	2 2.1	21.3
474560 2004 BT_{1}	15.2	X	192.76638	211.43904	240.65169	14.57592	0.4939242	0.14053433	3.66	1.85	5.47	Jc	6 27.1	22.4
474634 2004 UY	17.2	X	349.91763	232.86469	218.62610	30.54142	0.3737045	0.23867762	2.57	1.61	3.54	Mc	—	—
474674 2005 CZ_{6}	19.1	X	31.59507	104.68179	326.93625	26.64543	0.4913892	0.24157421	2.55	1.30	3.81	Mc	—	—
474724 2005 LM_{48}	18.2	X	162.08474	55.86774	280.25539	5.98437	0.3093573	0.27802338	2.32	1.61	3.04	Mc	1 17.7	21.9
474748 2005 PB_{4}	17.5	X	166.52477	337.28330	328.79128	3.37134	0.3366826	0.27570027	2.34	1.55	3.13	Mc	—	—
474763 2005 QQ_{75}	17.1	X	129.10125	9.36142	2.07213	6.68961	0.4373902	0.27391456	2.35	1.32	3.38	Mc	2 17.8	20.8
475134 2005 UH_{332}	17.4	X	159.62886	245.63933	64.55306	14.95781	0.3060198	0.26840834	2.38	1.65	3.11	Mc	—	—
475198 2005 VC_{1}	17.3	X	126.70426	90.93432	246.71754	19.60294	0.3696297	0.26777955	2.38	1.50	3.27	Mc	—	—
475297 2005 XS_{48}	17.2	X	114.85890	136.88308	272.51831	10.25885	0.3746529	0.27113934	2.36	1.48	3.25	Mc	3 9.9	20.8
475305 2005 XZ_{79}	17.8	X	208.63542	344.93996	121.62492	22.30033	0.2832114	0.35340368	1.98	1.42	2.54	Mc	8 2.1	21.0
475390 2006 HN_{7}	18.5	X	243.78609	104.62505	142.50508	0.98424	0.2680466	0.30781390	2.17	1.59	2.75	Mc	—	—
475391 2006 HW_{30}	17.9	X	137.82021	208.27758	65.69346	25.59388	0.1284992	0.42284610	1.76	1.53	1.98	Mc	—	—
475484 2006 SE_{215}	17.9	X	212.49308	157.53115	174.14651	7.21097	0.2515095	0.30172833	2.20	1.65	2.76	Mc	2 13.0	21.8
475513 2006 SS_{351}	19.2	X	116.20493	87.30424	17.98923	4.93650	0.2975175	0.30012705	2.21	1.55	2.87	Mc	5 16.5	22.3
475561 2006 TK_{96}	17.5	X	195.64441	4.71244	334.44861	5.83434	0.2633477	0.29859065	2.22	1.63	2.80	Mc	2 11.9	21.3
475937 2007 EQ_{122}	18.1	X	3.82121	217.03369	348.08921	8.80808	0.2533163	0.34822781	2.00	1.49	2.51	Mc	1 29.3	19.4
475967 2007 JF_{22}	16.2	X	220.47713	125.38803	47.70885	25.36270	0.5864248	0.18316790	3.07	1.27	4.87	Ja	10 15.1	22.6
475979 2007 PM_{4}	17.4	X	70.51037	256.71599	55.94479	27.98226	0.4029399	0.22512023	2.68	1.60	3.75	Mc	12 26.3	22.5
475981 2007 PR_{18}	17.4	X	40.95732	213.44523	152.34100	8.41978	0.3854860	0.22441523	2.68	1.65	3.72	Mc	—	—
475987 2007 PC_{36}	16.7	X	35.11525	233.16544	155.58422	9.64384	0.3776605	0.22511310	2.68	1.67	3.69	Mc	—	—
476003 2007 RP_{56}	17.0	X	133.61479	107.69025	189.73070	15.60274	0.3884429	0.23418700	2.61	1.59	3.62	Mc	—	—
476559 2008 OC_{10}	17.2	X	99.68505	87.29027	321.13470	14.17700	0.3312016	0.25967310	2.43	1.63	3.24	Mc	2 18.7	20.0
476703 2008 TQ_{145}	16.1	X	201.74234	255.67813	168.75991	3.12495	0.2367569	0.12777514	3.90	2.98	4.83	Ja	6 7.2	22.5
476807 2008 UP_{188}	16.9	X	87.64721	266.34392	50.85689	16.83452	0.3662415	0.24061970	2.56	1.62	3.50	Mc	—	—
477164 2009 EW_{14}	18.1	X	167.19233	293.99530	165.57839	25.21248	0.2274991	0.34724456	2.00	1.55	2.46	Mc	6 20.9	21.9
477227 2009 QB_{12}	18.3	X	192.26674	325.38215	10.74350	1.37093	0.2706286	0.29337591	2.24	1.64	2.85	Mc	2 6.4	21.9
477230 2009 RW_{6}	17.8	X	175.63077	99.07284	233.10180	3.36480	0.2855920	0.28821300	2.27	1.62	2.92	Mc	1 20.2	21.5
477326 2009 TQ_{7}	17.8	X	156.00906	111.43572	214.93079	11.19190	0.3007604	0.28021924	2.31	1.62	3.01	Mc	—	—
477330 2009 TV_{21}	18.6	X	217.71766	286.40134	199.14746	21.13228	0.0849105	0.40882294	1.80	1.65	1.95	Mc	10 3.9	20.0
477386 2009 VU_{25}	18.5	X	238.36868	246.55286	232.28184	24.89358	0.0744944	0.40876177	1.80	1.66	1.93	Mc	10 28.6	20.0
477587 2010 JT_{86}	15.3	X	315.47691	331.71639	26.67941	26.40979	0.4882356	0.17191359	3.20	1.64	4.77	Ja	5 23.4	19.8
477599 2010 KT_{7}	18.0	X	308.45252	46.25621	223.13596	36.74156	0.2680281	0.34937654	2.00	1.46	2.53	Mc	1 26.1	21.9
477796 2011 CQ_{46}	17.0	X	162.02380	237.58274	317.44909	29.77290	0.3956095	0.23827801	2.58	1.56	3.60	Mc	9 23.3	22.6
477826 2011 EB_{51}	16.8	X	130.84067	104.61291	141.07519	28.63080	0.3743999	0.23443566	2.60	1.63	3.58	Mc	11 27.3	22.4
477849 2011 FH_{152}	18.6	X	67.26284	319.48292	48.50130	17.14394	0.1428358	0.44435462	1.70	1.46	1.94	Mc	—	—
477912 2011 LO_{17}	17.6	X	350.21366	46.71609	256.78001	15.59130	0.4741340	0.19580587	2.94	1.54	4.33	Mc	6 11.2	18.4
478385 2012 BP_{13}	19.3	X	305.10583	84.10913	310.10838	8.47790	0.2481226	0.37964693	1.89	1.42	2.36	Mc	9 2.1	19.8
478422 2012 GG_{5}	18.1	X	240.18800	34.50315	244.44978	7.41607	0.3017417	0.29966360	2.21	1.54	2.88	Mc	1 1.6	22.1
478429 2012 HE_{28}	18.4	X	189.15609	146.14776	131.01377	3.88031	0.3018948	0.27893870	2.32	1.62	3.02	Mc	—	—
478450 2012 KJ_{45}	17.1	X	6.64012	307.70772	251.02276	24.92983	0.2284844	0.31893360	2.12	1.64	2.61	Mc	1 23.1	19.6
478465 2012 QS_{14}	17.2	X	104.81845	105.83684	263.68019	7.78134	0.3792073	0.25713033	2.45	1.52	3.38	Mc	1 13.5	20.0
478808 2012 UM_{174}	15.8	X	53.95229	276.98200	83.79638	28.86590	0.3994472	0.23233520	2.62	1.57	3.67	Mc	—	—
478980 2012 XU_{111}	17.0	X	320.69493	264.86061	239.09778	14.88675	0.4158725	0.22533195	2.67	1.56	3.79	Mc	—	—
478997 2012 XU_{134}	17.6	X	0.03991	84.54759	55.50337	28.03756	0.4062198	0.23544979	2.60	1.54	3.65	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
479030 2013 AD_{20}	16.6	X	28.89779	87.34645	355.20450	27.30243	0.3969630	0.23351864	2.61	1.57	3.65	Mc	—	—
479127 2013 BA_{27}	17.3	X	20.84371	264.96863	157.06034	27.94672	0.3885902	0.22886203	2.65	1.62	3.68	Mc	—	—
479288 2013 GE_{69}	18.6	X	19.35060	225.71275	359.72413	4.56897	0.2613814	0.36869188	1.93	1.42	2.43	Mc	4 18.2	18.1
479314 2013 OQ_{3}	18.3	X	136.44381	352.52234	153.78007	34.38580	0.2644269	0.36444919	1.94	1.43	2.45	Mc	7 28.3	21.7
480195 2015 FZ_{339}	15.9	X	330.04688	352.22693	301.56242	15.94600	0.4882479	0.16387404	3.31	1.69	4.92	Ja	3 23.1	20.3
480819 1998 SJ_{84}	18.2	X	146.96394	211.12327	150.11895	3.20495	0.2872786	0.27724767	2.33	1.66	3.00	Mc	2 2.7	21.8
480821 1998 WA_{4}	17.4	X	41.11792	289.86308	132.54212	12.49421	0.4829323	0.22364729	2.69	1.39	3.99	Mc	—	—
480827 1999 TK_{133}	18.2	X	200.29086	330.52535	359.88357	2.55763	0.2655022	0.29397056	2.24	1.65	2.83	Mc	2 5.5	21.9
480833 1999 VC_{1}	17.4	X	73.04526	237.97969	151.51383	2.68584	0.3754300	0.23620539	2.59	1.62	3.56	Mc	—	—
480838 1999 VE_{199}	17.8	X	159.72296	28.37832	8.85161	5.91113	0.2603588	0.29456799	2.24	1.65	2.82	Mc	3 26.8	21.5
480845 2000 QV_{229}	18.5	X	198.51088	224.45963	148.44763	8.29236	0.2876033	0.31183373	2.15	1.53	2.77	Mc	3 28.5	22.2
480854 2001 AO_{2}	18.1	X	277.84520	77.64728	104.06184	19.87922	0.6105251	0.18413858	3.06	1.19	4.93	Ja	11 20.6	22.9
480875 2001 UM_{52}	17.9	X	335.91914	29.03341	40.69369	18.94857	0.4469094	0.19737425	2.92	1.62	4.23	Mc	—	—
480876 2001 VV_{113}	17.9	X	120.54529	27.18883	11.39881	0.78380	0.3096059	0.26616843	2.39	1.65	3.13	Mc	2 28.3	21.1
480880 2001 XA_{20}	17.7	X	112.44800	82.27640	321.48798	4.50833	0.3326951	0.26446739	2.40	1.60	3.20	Mc	2 28.5	20.9
480881 2001 XT_{102}	17.1	X	50.40096	240.12542	260.10271	22.09052	0.3778454	0.26249407	2.42	1.50	3.33	Mc	3 26.4	19.1
480897 2002 QA_{7}	18.1	X	174.18583	114.92560	267.54242	5.42907	0.3029134	0.28973265	2.26	1.58	2.95	Mc	3 19.7	22.1
480904 2002 RQ_{242}	17.9	X	157.04777	86.42660	339.06546	21.91449	0.2908024	0.29217848	2.25	1.60	2.90	Mc	4 19.6	22.2
480918 2002 VF_{118}	17.1	X	172.54750	80.44411	295.21670	23.90690	0.3332657	0.28675342	2.28	1.52	3.04	Mc	3 1.8	21.6
480924 2002 XA_{53}	16.5	X	74.16725	55.87838	91.97890	23.32177	0.3236385	0.28094618	2.31	1.56	3.06	Mc	6 4.2	19.2
480960 2003 UU_{30}	18.7	X	229.15753	36.55207	291.15375	3.62831	0.2340079	0.30886296	2.17	1.66	2.67	Mc	2 20.3	22.3
480962 2003 UP_{87}	17.0	X	25.08755	100.83973	348.74600	27.73842	0.3863120	0.23220956	2.62	1.61	3.63	Mc	—	—
480990 2004 BV_{114}	17.8	X	5.50240	358.12733	135.60348	10.59207	0.3856109	0.22547793	2.67	1.64	3.70	Mc	—	—
480997 2004 DT_{39}	16.9	X	26.38560	265.26194	167.56489	28.72309	0.4805764	0.22394776	2.69	1.39	3.98	Mc	—	—
481032 2004 YZ_{23}	15.1	X	203.69831	300.84989	253.04487	56.14102	0.6767678	0.15571355	3.42	1.11	5.74	Jc	10 15.7	22.8
481044 2005 EG_{225}	16.9	X	329.37635	82.12729	80.52681	28.00423	0.4076954	0.23373819	2.61	1.55	3.67	Mc	—	—
481050 2005 GV_{32}	18.3	X	358.04189	354.66529	191.11577	5.17425	0.3749897	0.24067076	2.56	1.60	3.52	Mc	—	—
481063 2005 OC_{3}	17.7	X	158.75109	230.93563	90.50269	9.59034	0.3606952	0.27483758	2.34	1.50	3.19	Mc	1 2.9	21.6
481085 2005 SA_{135}	16.9	X	118.20584	98.92594	340.48599	21.80117	0.2997173	0.27668585	2.33	1.63	3.03	Mc	4 5.9	20.7
481090 2005 SY_{173}	18.1	X	135.85374	154.42050	210.02032	2.97394	0.3361886	0.27393390	2.35	1.56	3.14	Mc	2 1.4	21.6
481102 2005 TG_{3}	17.9	X	151.35359	190.95992	191.89062	12.58625	0.2912361	0.27617857	2.34	1.66	3.02	Mc	3 3.6	21.8
481315 2006 AU_{23}	17.3	X	23.70995	249.22369	317.95917	3.81557	0.3102916	0.26547141	2.40	1.65	3.14	Mc	4 26.8	18.0
481358 2006 ES_{69}	17.1	X	56.12247	78.05835	52.14912	23.96008	0.3231109	0.26263575	2.41	1.63	3.20	Mc	4 12.3	19.2
481385 2006 QG_{43}	18.2	X	248.36803	352.48281	342.89186	6.22124	0.2665606	0.31083656	2.16	1.58	2.73	Mc	3 16.0	21.9
481467 2007 AN_{9}	18.5	X	57.26433	242.69301	265.06925	2.90178	0.2684983	0.28691334	2.28	1.67	2.89	Mc	4 13.0	19.9
481482 2007 CA_{19}	17.6	X	4.69504	102.53488	170.00658	9.59620	0.8213226	0.20927654	2.81	0.50	5.12	Jc	2 8.1*	19.8
481755 2008 JM_{3}	18.4	X	298.52013	54.54474	39.14282	22.31300	0.0907935	0.41296782	1.79	1.62	1.95	Mc	—	—
481765 2008 ON_{3}	17.3	X	117.54917	165.04361	209.65204	6.49152	0.3811840	0.25897253	2.44	1.51	3.37	Mc	2 2.9	20.9
481773 2008 SO_{4}	17.3	X	141.75557	3.71683	29.72148	5.80185	0.3257332	0.26485130	2.40	1.62	3.18	Mc	3 16.9	21.3
481836 2008 VW_{78}	16.1	X	108.12711	73.49048	273.24587	15.85807	0.3495140	0.24328590	2.54	1.65	3.43	Mc	—	—
481844 2008 WH_{94}	16.0	X	336.82590	243.36989	263.01134	27.40650	0.4017663	0.23383937	2.61	1.56	3.66	Mc	—	—
482023 2009 VY	18.6	X	15.63136	37.72447	53.17090	28.41276	0.0484312	0.43588462	1.72	1.64	1.81	Mc	—	—
482039 2009 WH_{78}	17.7	X	128.65106	331.87375	22.84718	3.47452	0.2945318	0.27462921	2.34	1.65	3.03	Mc	1 9.1	20.7
482048 2009 WT_{259}	17.5	X	149.02596	268.06830	73.98875	3.61149	0.3154783	0.27699020	2.33	1.60	3.07	Mc	1 15.7	21.1
482084 2010 FL_{6}	18.4	X	73.50322	74.53101	67.43818	7.81804	0.2958454	0.27490910	2.34	1.65	3.04	Mc	5 17.4	20.6
482252 2011 NO_{3}	16.1	X	87.69950	53.28191	297.97863	23.86080	0.3852549	0.22562213	2.67	1.64	3.70	Mc	—	—
482554 2012 VW_{36}	18.6	X	103.09084	219.05687	257.45327	20.70409	0.0351915	0.50904897	1.55	1.50	1.61	Mc	2 7.5	20.0
482575 2012 WY_{32}	16.2	X	95.47677	67.95032	280.55976	10.43133	0.3694349	0.24287551	2.54	1.60	3.48	Mc	—	—
482802 2013 TL_{114}	19.2	X	203.39951	234.98470	224.09669	4.58707	0.2533733	0.34151612	2.03	1.51	2.54	Mc	7 18.3	22.4
482888 2014 FH_{38}	18.8	X	151.22813	78.87358	36.30912	3.36155	0.3012057	0.30908248	2.17	1.51	2.82	Mc	6 29.8	22.5
483406 1999 RK_{30}	17.2	X	52.07277	76.64280	337.16234	27.36715	0.4006920	0.23549925	2.60	1.56	3.64	Mc	—	—
483416 1999 YD_{6}	16.8	X	320.37587	75.75227	343.11953	15.10785	0.4764647	0.17541266	3.16	1.65	4.67	Mc	9 6.4	19.1
483420 2000 CX_{39}	17.0	X	71.83202	294.49184	142.74487	29.71773	0.3735426	0.23596770	2.59	1.62	3.56	Mc	3 1.1	19.4
483429 2000 LN_{29}	17.8	X	356.44596	343.16703	281.82477	8.74361	0.4133454	0.27957864	2.32	1.36	3.27	Mc	4 3.8	19.2
483430 2000 QC_{33}	18.1	X	282.22743	264.23336	85.71298	5.83332	0.2475875	0.32158583	2.11	1.59	2.63	Mc	5 9.5	20.8
483483 2002 RR_{28}	17.0	X	31.74511	323.46081	1.50586	25.32121	0.2810414	0.31525035	2.14	1.54	2.74	Mc	12 3.8	20.3
483493 2002 TY_{188}	18.1	X	187.35486	152.51190	227.50627	4.53501	0.3090542	0.28952504	2.26	1.56	2.96	Mc	3 27.7	22.1
483498 2002 UL_{3}	16.6	X	17.66043	72.62392	347.76713	28.24139	0.4304150	0.21480146	2.76	1.57	3.95	Mc	—	—
483502 2002 VF_{98}	17.7	X	177.97806	132.31277	269.85676	21.76553	0.3029323	0.28971877	2.26	1.58	2.95	Mc	4 10.5	22.2
483533 2003 UQ_{24}	16.1	X	46.46616	68.48213	56.68677	28.45322	0.4264183	0.23245087	2.62	1.50	3.74	Mc	4 12.3	18.3
483535 2003 UM_{86}	18.2	X	232.59714	247.79313	131.16230	2.87912	0.2730243	0.31316867	2.15	1.56	2.73	Mc	4 29.4	21.7
483555 2003 YP_{10}	16.8	X	91.50605	341.10168	16.90366	7.95274	0.4282399	0.23220917	2.62	1.50	3.74	Mc	—	—
483558 2003 YD_{108}	16.5	X	113.27294	250.67100	122.49040	29.69613	0.3970659	0.23206675	2.62	1.58	3.66	Mc	2 5.5	20.4
483591 2004 JZ_{31}	19.5	X	194.78172	32.80664	203.21257	7.04094	0.2621183	0.37567336	1.90	1.40	2.40	Mc	—	—
483603 2004 RR_{77}	16.8	X	339.02442	300.37033	10.38964	23.88282	0.2978067	0.28521816	2.29	1.60	2.97	Mc	5 31.3	19.0
483668 2005 GH_{97}	16.5	X	178.42297	248.75663	343.17842	14.96364	0.4027431	0.15337481	3.46	2.06	4.85	Ja	11 19.6	23.3
483680 2005 NM_{2}	17.8	X	297.58881	130.45384	119.81963	10.15889	0.3803622	0.23253346	2.62	1.62	3.62	Mc	1 11.6	22.3
483720 2005 TG_{66}	18.4	X	162.86357	88.29949	317.91485	4.65295	0.2812659	0.28199669	2.30	1.66	2.95	Mc	4 9.5	22.3
483795 2005 VJ_{82}	17.3	X	139.30492	64.90647	358.33884	21.54439	0.2999795	0.27771917	2.33	1.63	3.02	Mc	4 8.8	21.2
484095 2006 RU_{20}	16.9	X	5.30961	229.04570	192.43845	7.46257	0.4522815	0.20425683	2.86	1.56	4.15	Mc	—	—
484096 2006 RE_{36}	18.0	X	174.53776	14.59490	20.88766	8.61072	0.2996513	0.30110688	2.20	1.54	2.87	Mc	4 7.2	21.6
484223 2007 DT_{102}	17.0	X	103.36441	154.69221	23.04038	26.51142	0.3064725	0.29611257	2.23	1.55	2.91	Mc	8 27.7	21.2
484247 2007 FL_{3}	17.1	X	155.77418	135.20595	153.91567	50.76559	0.1773499	0.38720774	1.86	1.53	2.19	Mc	—	—
484269 2007 HP_{88}	18.0	X	67.18045	128.94353	73.05917	4.51072	0.2864471	0.28853292	2.27	1.62	2.92	Mc	8 4.4	20.7
484279 2007 JL_{40}	17.2	X	140.65298	123.76535	195.33550	12.52671	0.3472920	0.24460198	2.53	1.65	3.41	Mc	—	—
484284 2007 PW_{15}	16.6	X	324.89304	277.54617	346.55374	21.25206	0.3053623	0.26877323	2.38	1.65	3.10	Mc	3 2.1	19.4
484301 2007 TK_{2}	18.8	X	71.27935	27.85403	23.68321	17.17295	0.0818309	0.44849258	1.69	1.55	1.83	Mc	—	—
484535 2008 FA_{68}	17.0	X	27.13535	279.30831	202.67764	29.16125	0.3957679	0.21971489	2.72	1.64	3.80	Mc	—	—
484549 2008 GW_{73}	14.1	X	357.60226	198.38694	81.39377	10.07066	0.0770341	0.08662385	5.06	4.67	5.45	Jc	6 27.9	20.4
484571 2008 LS_{17}	17.4	X	201.96943	190.71334	160.39053	8.51137	0.4081128	0.27261494	2.36	1.39	3.32	Mc	3 7.1	21.9

* The additional opposition: 11 15.0, $V = 20.6$

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
484616 2008 SY_{105}	17.6	X	136.63973	244.55565	165.84856	5.72702	0.3257335	0.26476539	2.40	1.62	3.18	Mc	4 1.7	21.5
484861 2009 KL_{7}	16.6	X	344.27102	260.65462	302.05914	26.38012	0.3919132	0.23535434	2.60	1.58	3.62	Mc	1 1.5	20.0
485116 2010 JE_{124}	17.7	X	18.62344	341.98628	261.71702	5.75223	0.3689576	0.27328421	2.35	1.48	3.22	Mc	7 9.5	18.0
485379 2011 FO_{56}	18.5	X	59.49210	356.56608	246.64350	4.50307	0.2418163	0.31203194	2.15	1.63	2.67	Mc	9 13.3	21.0
485512 2011 TB_{10}	17.0	X	59.66711	287.81187	184.34133	28.03755	0.4179188	0.23818934	2.58	1.50	3.65	Mc	4 4.9	18.9
485652 2011 WO_{41}	16.5	X	285.26703	125.22232	112.16038	20.05363	0.7314387	0.18835292	3.01	0.81	5.22	Jc	—	—
485712 2012 AO_{7}	18.9	X	235.99690	294.95590	284.64391	8.57414	0.2606866	0.40484684	1.81	1.34	2.28	Mc	—	—
485717 2012 BH_{1}	18.1	X	7.34829	317.68743	130.94606	33.66087	0.1587577	0.41290730	1.79	1.50	2.07	Mc	—	—
485938 2012 HR_{20}	19.6	X	70.51310	85.13049	140.28292	24.80930	0.0538591	0.56131796	1.46	1.38	1.53	Mc	8 23.8	19.3
486006 2012 PD_{19}	17.2	X	211.62033	140.26752	205.55680	9.12871	0.3297493	0.28797720	2.27	1.52	3.02	Mc	3 1.9	21.5
486015 2012 RN_{40}	18.1	X	204.73416	354.23702	355.20368	5.99975	0.2704233	0.28679791	2.28	1.66	2.89	Mc	3 4.5	22.1
486042 2012 TW_{131}	17.5	X	98.80232	52.67429	25.09222	14.55638	0.3605230	0.26417063	2.41	1.54	3.27	Mc	4 5.2	20.7
486171 2012 YB_{3}	18.8	X	200.52200	312.35567	114.22038	23.08952	0.1208633	0.51939450	1.53	1.35	1.72	Mc	6 5.7	20.5
486173 2013 AY_{3}	18.3	X	60.80472	148.87714	334.88931	5.73176	0.3641559	0.25323887	2.47	1.57	3.38	Mc	4 7.1	20.1
486220 2013 AB_{103}	17.3	X	120.82048	54.78522	315.52079	9.68112	0.3502940	0.25004383	2.50	1.62	3.37	Mc	1 31.8	20.8
486527 2013 HO_{7}	16.4	X	321.59695	258.28411	2.77980	28.24739	0.3559800	0.23742124	2.58	1.66	3.50	Mc	3 1.2	20.1
486725 2014 DZ_{17}	18.9	X	209.73602	118.97681	20.18684	9.23775	0.2961773	0.34642385	2.01	1.41	2.60	Mc	9 17.3	22.0
486744 2014 EK_{39}	17.8	X	321.93552	173.50263	117.30151	6.62958	0.2708852	0.28774849	2.27	1.66	2.89	Mc	4 9.3	20.3
486813 2014 JL_{15}	17.4	X	316.25582	166.49748	118.65766	8.27015	0.3005357	0.27361200	2.35	1.64	3.06	Mc	3 21.3	20.4
486858 2014 KK_{1}	19.0	X	57.57934	125.59533	142.26151	6.06081	0.2392094	0.30755479	2.17	1.65	2.69	Mc	10 20.2	21.8
487496 2014 SE_{288}	14.7	X	197.27474	214.96759	155.93076	8.47182	0.3703375	0.07865456	5.39	3.40	7.39	Jc	4 7.9	23.2
487594 2015 KT_{40}	17.3	X	107.97221	276.96006	78.14315	7.28257	0.3523912	0.24156881	2.55	1.65	3.45	Mc	—	—
487613 2015 MB_{60}	17.1	X	222.39729	95.00892	275.19038	21.59867	0.2852919	0.30081712	2.21	1.58	2.84	Mc	3 30.1	21.5
487740 2015 RX_{107}	18.4	X	320.37406	319.36339	8.65937	6.15657	0.2535765	0.31203770	2.15	1.61	2.70	Mc	5 31.1	20.2
487897 2015 TH_{166}	17.7	X	291.72985	128.23123	196.83775	9.37833	0.2728355	0.29318318	2.24	1.63	2.86	Mc	4 13.5	20.8
488267 2016 SM_{6}	17.4	X	34.85840	84.16650	326.42885	27.27325	0.3821683	0.23851519	2.58	1.59	3.56	Mc	—	—
488278 2016 TN_{55}	17.2	X	87.42468	316.58649	75.16728	25.31056	0.3232445	0.25668127	2.45	1.66	3.24	Mc	1 4.7	19.5
488462 1996 TD_{1}	16.8	X	321.30525	116.59114	191.51453	24.48596	0.4332687	0.23218426	2.62	1.49	3.76	Mc	4 8.8	19.9
488476 1999 RN_{239}	17.3	X	14.57141	356.89068	314.16380	10.51910	0.3939267	0.27010990	2.37	1.44	3.30	Mc	10 31.6	19.6
488498 2000 QJ_{117}	16.9	X	275.03784	193.84670	147.74019	19.54066	0.3990179	0.22486289	2.68	1.61	3.75	Mc	4 15.9	21.8
488510 2000 UE_{16}	17.4	X	325.76821	87.01645	240.16326	9.02679	0.3433760	0.27615286	2.34	1.53	3.14	Mc	5 26.6	18.9
488524 2001 QV_{327}	16.7	X	322.24192	251.89164	66.85890	12.11440	0.3579131	0.24030911	2.56	1.65	3.48	Mc	5 9.2	19.3
488582 2002 LD_{35}	17.1	X	263.99112	199.53832	98.21369	15.40657	0.4945155	0.19306281	2.96	1.50	4.43	Mc	2 12.3	23.0
488587 2002 PH_{130}	18.3	X	155.14414	22.03640	326.39444	7.16574	0.2719359	0.28554813	2.28	1.66	2.91	Mc	1 23.9	21.8
488595 2002 QT_{92}	18.9	X	159.56588	289.92758	68.62639	2.54817	0.2803130	0.28629527	2.28	1.64	2.92	Mc	2 9.9	22.5
488602 2002 RV_{49}	17.9	X	354.05288	326.92888	3.21849	7.06777	0.2668981	0.31158286	2.15	1.58	2.73	Mc	9 30.0	18.4
488621 2002 TR_{259}	17.7	X	31.02182	250.45245	196.58115	12.70728	0.4190018	0.21917347	2.72	1.58	3.87	Mc	—	—
488646 2003 QK_{47}	18.7	X	168.06437	332.05584	331.96562	24.61906	0.1804777	0.40912838	1.80	1.47	2.12	Mc	—	—
488658 2003 SZ_{290}	18.1	X	57.56279	157.51662	199.15564	10.76110	0.2926649	0.28437033	2.29	1.62	2.96	Mc	—	—
488697 2003 XE_{7}	17.1	X	27.09651	74.11324	69.02439	29.07102	0.3718054	0.23351342	2.61	1.64	3.58	Mc	1 11.5	19.0
488702 2003 YU_{117}	18.0	X	146.70959	21.38532	111.80358	26.22029	0.3529787	0.30473770	2.19	1.42	2.96	Mc	7 21.3	22.0
488726 2004 PZ_{104}	17.8	X	86.40567	189.21207	184.66280	7.61484	0.3437299	0.30839696	2.17	1.42	2.92	Mc	—	—
488729 2004 RU_{16}	18.4	X	6.27828	276.75321	38.06788	2.83687	0.2785842	0.29108172	2.25	1.63	2.88	Mc	10 5.8	19.4
488736 2004 RG_{112}	17.2	X	332.74506	140.78178	216.95254	23.09489	0.2890035	0.28837065	2.27	1.61	2.92	Mc	8 17.1	19.2
488738 2004 RM_{162}	18.2	X	40.70837	30.17954	273.72530	6.30198	0.2920545	0.29537390	2.23	1.58	2.89	Mc	11 20.2	21.1
488749 2004 SH_{9}	18.5	X	37.84349	120.69728	199.43805	22.09797	0.4020549	0.29595919	2.23	1.33	3.13	Mc	12 21.4	22.3
488788 2004 XF_{42}	18.0	X	57.91538	307.32384	72.10483	7.68111	0.2806521	0.30301694	2.20	1.58	2.81	Mc	—	—
488799 2005 EE_{38}	17.8	X	299.64971	349.80651	166.90595	33.17014	0.2462295	0.41161868	1.79	1.35	2.23	Mc	—	—
488801 2005 ES_{156}	18.3	X	69.38070	108.11632	38.51124	5.90478	0.3397111	0.25210208	2.48	1.64	3.32	Mc	5 25.8	21.1
488873 2005 SR_{137}	17.4	X	148.20092	273.28378	201.49310	22.44473	0.2832281	0.28629112	2.28	1.63	2.93	Mc	6 23.9	21.8
488883 2005 SK_{222}	17.5	X	244.39971	215.37510	158.18572	7.76122	0.2827569	0.29203342	2.25	1.61	2.89	Mc	5 3.8	21.4
488894 2005 TY_{41}	18.8	X	293.58918	161.16901	204.37729	4.40121	0.2463683	0.30054264	2.21	1.66	2.75	Mc	6 16.4	21.1
488901 2005 TQ_{78}	18.0	X	42.48683	89.33589	209.31054	5.00649	0.2576283	0.30963244	2.16	1.61	2.72	Mc	11 14.1	20.4
488943 2005 UL_{147}	17.7	X	353.78921	302.08175	31.82302	7.91158	0.2740016	0.30591723	2.18	1.58	2.78	Mc	10 9.3	18.3
489002 2005 VB	18.1	X	173.24637	304.29174	34.11384	4.26345	0.3677145	0.27607656	2.34	1.48	3.19	Mc	2 3.6	22.4
489053 2005 YK_{93}	18.1	X	43.52645	175.51714	291.66442	11.64358	0.4037756	0.26179726	2.42	1.44	3.40	Mc	—	—
489152 2006 DC_{217}	18.1	X	130.63314	85.02401	4.28159	20.92318	0.3533413	0.27165340	2.36	1.53	3.20	Mc	5 7.7	22.5
489216 2006 KR_{20}	19.4	X	343.58149	45.84735	227.63422	3.67150	0.3341178	0.32575864	2.09	1.39	2.79	Mc	3 27.8	20.6
489231 2006 OC_{4}	18.9	X	279.57195	1.24395	326.81608	4.82597	0.2424318	0.31474576	2.14	1.62	2.66	Mc	4 3.6	22.1
489233 2006 QP_{27}	18.8	X	153.45240	47.56333	324.57468	6.18154	0.2796464	0.29665590	2.23	1.60	2.85	Mc	2 18.8	22.1
489251 2006 RD_{62}	19.0	X	96.31112	123.57112	200.11393	4.00933	0.3102253	0.28126398	2.31	1.59	3.02	Mc	—	—
489298 2006 SF_{255}	18.5	X	145.76659	317.21921	59.29656	4.58626	0.2768314	0.29479469	2.24	1.62	2.85	Mc	2 19.7	21.8
489398 2006 VE_{2}	18.2	X	327.41855	268.53246	236.91819	21.22930	0.1297346	0.41338016	1.78	1.55	2.02	Mc	—	—
489429 2006 WM	18.3	X	267.38281	328.86722	19.83258	5.23505	0.2283535	0.31241775	2.15	1.66	2.64	Mc	4 22.2	21.4
489508 2007 OL_{10}	18.8	X	17.88426	290.25336	6.34511	6.02450	0.3845694	0.28489350	2.29	1.41	3.17	Mc	10 21.2	20.6
489510 2007 PS_{8}	17.3	X	79.69846	249.54487	141.49119	7.53890	0.4813365	0.23091362	2.63	1.36	3.90	Mc	1 29.7	19.6
489512 2007 PT_{22}	17.7	X	341.28050	321.41768	0.55002	13.57832	0.3274932	0.27796459	2.33	1.56	3.09	Mc	7 14.2	19.0
489532 2007 RX_{127}	18.8	X	127.07939	2.15864	14.84826	3.61208	0.3649197	0.24036812	2.56	1.63	3.50	Mc	2 18.5	22.8
489541 2007 RL_{204}	16.9	X	43.40711	276.53401	190.99473	27.46604	0.3900869	0.23412958	2.61	1.59	3.62	Mc	1 10.9	18.9
489615 2007 TZ_{246}	18.0	X	331.08843	256.59841	44.12241	9.72594	0.3261858	0.27043608	2.37	1.60	3.14	Mc	4 29.4	19.9
489802 2008 CS_{181}	18.9	X	236.42090	143.95618	148.87550	23.78157	0.0697082	0.44457944	1.70	1.58	1.82	Mc	—	—
489930 2008 RP_{24}	17.7	X	181.24072	224.89088	164.34977	6.71402	0.4253461	0.27167167	2.36	1.36	3.37	Mc	4 10.7	22.4
490013 2008 SV_{243}	18.1	X	134.23974	321.04419	55.52435	22.35644	0.0923786	0.41116829	1.79	1.63	1.96	Mc	—	—
490063 2008 TX_{99}	19.0	X	43.82497	89.07069	186.66449	7.52557	0.2968176	0.30449248	2.19	1.54	2.84	Mc	10 20.7	21.5
490070 2008 TM_{116}	17.9	X	43.71345	327.04026	354.77593	5.80465	0.2523240	0.31029662	2.16	1.62	2.71	Mc	12 14.9	20.8
490112 2008 UD_{49}	18.1	X	31.38279	35.66712	36.18149	7.21554	0.3486587	0.24241186	2.55	1.66	3.44	Mc	—	—
490136 2008 UE_{128}	17.0	X	83.25928	77.50426	56.38846	20.26888	0.3807079	0.25937467	2.44	1.51	3.36	Mc	5 31.6	20.3
490171 2008 UD_{253}	14.3	X	75.95351	355.83036	35.56193	13.62872	0.4829630	0.09473575	4.77	2.46	7.07	Jc	2 25.8	21.0
490385 2009 PO_{2}	18.2	X	207.70948	59.95897	271.73723	4.20389	0.2803776	0.29726658	2.22	1.60	2.85	Mc	2 10.4	22.1
490559 2009 WR_{20}	17.2	X	306.79179	321.30515	51.44478	7.40272	0.3701409	0.23582147	2.59	1.63	3.56	Mc	6 26.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
490718 2010 RL_{82}	19.2	X	200.63077	283.93762	145.40423	19.88838	0.0993894	0.52538124	1.52	1.37	1.67	Mc	6 8.8	20.9
491015 2011 LS_{14}	19.0	X	84.57289	309.52612	350.25591	6.21420	0.3747346	0.31972942	2.12	1.32	2.91	Mc	—	—
491037 2011 QW_{11}	18.6	X	223.63871	76.57402	275.48195	1.08508	0.3785270	0.26270048	2.41	1.50	3.33	Mc	3 19.8	23.2
491090 2011 SL_{12}	19.4	X	123.88563	194.07634	190.14896	28.06066	0.0556336	0.44375978	1.70	1.61	1.80	Mc	—	—
491234 2011 UW_{192}	18.0	X	355.36502	165.93749	151.07080	4.60955	0.3167829	0.28544220	2.28	1.56	3.01	Mc	9 7.7	18.2
491240 2011 UU_{204}	17.8	X	338.65310	177.68154	171.51364	9.43510	0.3045649	0.29198285	2.25	1.56	2.94	Mc	9 4.9	17.9
491353 2011 YJ_{70}	17.7	X	332.76905	109.48979	52.94795	8.65096	0.4832727	0.20451534	2.85	1.47	4.23	Mc	—	—
491585 2012 SL_{6}	17.0	X	4.56594	73.60402	327.36536	5.07802	0.4282487	0.22728478	2.66	1.52	3.80	Mc	—	—
491653 2012 TT_{254}	18.0	X	114.43342	241.48613	225.78075	21.86482	0.3109185	0.27674960	2.33	1.61	3.06	Mc	5 21.3	21.5
491734 2012 VS_{10}	17.6	X	101.20709	242.07973	233.03635	21.58576	0.3064662	0.27128511	2.36	1.64	3.09	Mc	5 17.8	20.7
491755 2012 VE_{80}	18.2	X	8.79298	100.56214	323.64234	4.81242	0.3890146	0.23182515	2.62	1.60	3.65	Mc	—	—
491765 2012 VU_{110}	18.7	X	204.87191	106.06219	303.83358	4.14893	0.2656175	0.29352041	2.24	1.65	2.84	Mc	5 16.1	22.5
491770 2012 WP_{9}	17.3	X	33.83530	310.01670	74.73906	6.31098	0.3664439	0.23240320	2.62	1.66	3.58	Mc	—	—
491973 2013 EN_{11}	16.8	X	94.19734	230.37099	180.32449	31.96072	0.4086908	0.24348480	2.54	1.50	3.58	Mc	3 1.4	20.2
492344 2014 GE_{50}	17.9	X	16.41617	166.31503	89.15975	4.14220	0.2877117	0.27937197	2.32	1.65	2.98	Mc	7 11.6	18.6
492410 2014 KN_{40}	18.3	X	32.15094	280.09630	30.99621	6.95931	0.2623771	0.30919768	2.17	1.60	2.73	Mc	11 16.8	20.6
492429 2014 MX_{14}	18.5	X	55.25262	149.36112	118.51119	7.39429	0.2814528	0.29799317	2.22	1.60	2.84	Mc	10 23.3	21.5
492815 2014 QS_{269}	16.0	X	307.01343	259.74892	162.03073	20.38516	0.3201254	0.13781886	3.71	2.52	4.90	Ja	9 6.9	20.3
492912 2014 RX_{1}	18.4	X	20.18675	283.43300	30.47810	4.71888	0.2969991	0.29042411	2.26	1.59	2.93	Mc	11 5.6	20.3
493045 2014 SA_{263}	17.5	X	313.19001	329.84402	355.30005	12.82850	0.3579322	0.26343403	2.41	1.55	3.27	Mc	4 24.2	20.7
493555 2015 JH_{9}	18.2	X	276.06127	268.42996	34.76079	5.49723	0.2480346	0.30193935	2.20	1.65	2.75	Mc	3 4.3	21.6
494219 2016 LN_{8}	12.7	X	221.19738	20.75327	87.53371	43.34125	0.0559107	0.07236181	5.70	5.38	6.02	Jc	9 1.7	20.7
494231 2016 NA_{47}	17.9	X	5.15234	267.82085	140.44516	2.53012	0.4119399	0.22098453	2.71	1.59	3.83	Mc	—	—
494545 2017 AL_{20}	17.5	X	39.57671	100.78335	14.86747	27.91280	0.4016803	0.23625211	2.59	1.55	3.63	Mc	2 9.8	19.4
494661 2001 RO_{75}	17.2	X	219.03002	0.14970	28.27624	8.86531	0.3923696	0.23056359	2.63	1.60	3.67	Mc	4 29.4	22.3
494667 2001 WX_{1}	15.8	X	235.98666	46.22707	304.14692	23.23022	0.5706850	0.13285943	3.80	1.63	5.97	Jc	3 13.9	23.5
494670 2002 MQ_{1}	18.2	X	321.16893	113.60295	202.55100	19.60873	0.3389844	0.30658293	2.18	1.44	2.92	Mc	4 28.8	20.2
494677 2003 SJ_{111}	18.5	X	197.46975	111.02506	189.12311	6.74539	0.2511659	0.30136530	2.20	1.65	2.76	Mc	—	—
494703 2004 XN_{62}	17.0	X	343.66805	262.76778	101.76072	22.74779	0.3451833	0.28620778	2.28	1.49	3.07	Mc	11 21.7	18.5
494726 2005 TF_{3}	17.1	X	286.85982	177.89768	183.24649	7.07658	0.3980155	0.23640594	2.59	1.56	3.62	Mc	5 14.9	21.2
494836 2007 UR_{9}	18.2	X	354.38722	175.15902	168.09559	7.16476	0.3032245	0.28193058	2.30	1.60	3.00	Mc	10 27.9	19.3
494838 2007 UU_{104}	17.9	X	323.16271	291.18322	68.71249	8.94623	0.3305495	0.27524297	2.34	1.57	3.11	Mc	7 22.9	19.4
494888 2008 SC_{180}	18.4	X	29.04147	297.78881	55.02839	6.09502	0.2478780	0.31220939	2.15	1.62	2.69	Mc	—	—
494904 2008 UK_{266}	17.8	X	135.44923	255.20247	224.65349	21.28314	0.2994420	0.27276614	2.35	1.65	3.06	Mc	6 21.1	22.1
494997 2010 HY_{113}	18.3	X	68.62251	26.71112	222.30005	5.23697	0.3364782	0.28955563	2.26	1.50	3.02	Mc	10 13.5	21.6
495089 2011 SA_{29}	18.6	X	53.80057	315.41382	350.20613	2.02263	0.2464106	0.30676288	2.18	1.64	2.71	Mc	12 3.3	21.4
495123 2011 WM_{21}	18.3	X	28.30206	254.11839	63.00390	8.77461	0.2585624	0.29342519	2.24	1.66	2.82	Mc	11 17.9	20.6
495153 2012 FY	19.0	X	72.00082	244.40214	178.02200	20.03816	0.1045121	0.41620907	1.78	1.59	1.96	Mc	—	—
495195 2013 BX_{22}	17.0	X	94.88076	252.09407	251.43122	20.76266	0.3070915	0.26694339	2.39	1.66	3.12	Mc	6 17.4	20.4
495398 2014 QY_{310}	18.8	X	357.87906	14.83421	318.48264	0.53538	0.2751707	0.28403181	2.29	1.66	2.92	Mc	10 11.9	19.9
495552 2014 WS_{200}	17.2	X	19.93497	335.72952	12.76446	10.26233	0.2948338	0.28167545	2.30	1.63	2.98	Mc	12 22.3	20.0
495760 2017 CL_{12}	17.1	X	48.56308	319.29365	303.35907	5.45656	0.2753510	0.28979242	2.26	1.64	2.88	Mc	9 28.9	19.8
495831 2000 AW_{93}	18.8	X	165.05059	61.35391	113.12180	27.32127	0.0894617	0.53244151	1.51	1.37	1.64	Mc	11 14.0	20.8
495832 2000 JV_{60}	17.8	X	272.36282	319.97311	242.45079	8.21353	0.5096738	0.17372546	3.18	1.56	4.80	Ja	12 15.1	22.2
495851 2002 TL_{68}	17.5	X	25.05794	97.56803	208.29440	20.12924	0.3704368	0.26272013	2.41	1.52	3.31	Mc	11 11.2	20.2
495856 2003 KM_{11}	19.5	X	44.81583	117.85683	206.90831	6.99143	0.4291206	0.28369608	2.29	1.31	3.28	Mc	—	—
495861 2003 UR_{65}	18.0	X	26.38061	217.98983	122.87286	6.55744	0.3119521	0.27883847	2.32	1.60	3.04	Mc	12 22.9	20.8
495863 2003 XV_{4}	17.7	X	345.72248	116.08691	240.91038	9.21182	0.3166041	0.27196702	2.36	1.61	3.11	Mc	10 15.9	18.6
495866 2004 MU_{2}	16.5	X	268.04794	96.77138	267.97003	7.79338	0.4675101	0.22055524	2.71	1.44	3.98	Mc	4 25.6	21.7
495871 2004 RP_{52}	18.5	X	75.03459	158.13928	152.64254	2.34012	0.2916048	0.30180166	2.20	1.56	2.84	Mc	—	—
495954 2007 BZ_{72}	17.5	X	87.65293	294.93960	151.21047	12.64517	0.4708554	0.21795592	2.73	1.45	4.02	Mc	4 25.5	21.7
495966 2007 RC_{143}	18.5	X	113.72239	101.48360	217.96486	2.94246	0.2460997	0.30484491	2.19	1.65	2.72	Mc	—	—
495973 2007 TC_{13}	18.4	X	38.54238	141.77164	189.49467	2.33907	0.2971356	0.28945740	2.26	1.59	2.94	Mc	12 24.0	21.4
495987 2007 TP_{426}	18.1	X	102.12437	78.36322	239.18641	9.19361	0.2523592	0.29723234	2.22	1.66	2.78	Mc	—	—
495997 2007 VH_{96}	16.9	X	22.82694	24.88661	50.30561	15.28439	0.4358445	0.22084924	2.71	1.53	3.89	Mc	—	—
496114 2009 WF_{185}	16.3	X	298.14488	115.56304	271.40006	28.48503	0.3755391	0.23227766	2.62	1.64	3.61	Mc	6 30.9	19.6
496124 2010 EK_{12}	17.6	X	105.93441	275.20619	300.03142	14.87420	0.4245849	0.29048778	2.26	1.30	3.22	Mc	9 28.9	22.2
496127 2010 GN_{145}	17.6	X	75.78820	240.44754	52.31466	8.47337	0.2643014	0.29766183	2.22	1.63	2.81	Mc	12 7.8	21.1
496164 2010 WL_{40}	18.4	X	23.09348	67.42629	276.35263	5.40395	0.3036213	0.27224799	2.36	1.64	3.07	Mc	12 19.7	21.2
496177 2011 CA_{66}	15.7	X	299.31836	286.09570	287.42034	21.25060	0.4684922	0.17786281	3.13	1.66	4.60	Mc	—	—
496214 2011 US_{246}	18.5	X	48.22724	298.87011	60.53629	1.70449	0.2435543	0.31060039	2.16	1.63	2.69	Mc	—	—
496316 2013 HQ_{11}	17.5	X	150.48345	349.90602	327.62021	4.40561	0.2321156	0.32319881	2.10	1.61	2.59	Mc	—	—
496324 2013 KU_{1}	16.8	X	252.54097	118.28525	233.49973	10.22042	0.4118663	0.21460694	2.76	1.62	3.90	Mc	4 4.8	22.2
496334 2013 PL_{3}	17.3	X	239.11823	113.67283	262.48412	5.51256	0.4035211	0.21392385	2.77	1.65	3.89	Mc	4 26.4	22.5
496392 2013 TU_{51}	18.2	X	321.11024	350.12266	354.79670	3.21237	0.3615035	0.23713650	2.59	1.65	3.52	Mc	6 12.6	20.7
496436 2014 LZ_{26}	17.3	X	83.53532	25.03585	278.42087	7.46496	0.3794064	0.30915876	2.17	1.34	2.99	Mc	—	—
496457 2014 QN_{297}	18.6	X	105.09749	23.61249	284.54824	4.33191	0.2526566	0.32212079	2.11	1.58	2.64	Mc	—	—
496819 1994 XE	18.0	X	331.25221	354.42530	112.84630	7.74582	0.2635970	0.29437362	2.24	1.65	2.83	Mc	—	—
496834 1996 TQ_{6}	20.3	X	13.90310	214.84406	171.66300	6.03845	0.4095096	0.28088059	2.31	1.36	3.25	Mc	—	—
496863 2000 CL_{59}	18.2	X	12.76793	335.92125	143.62773	33.43170	0.1744603	0.41320497	1.79	1.47	2.10	Mc	—	—
496868 2000 OA_{51}	18.2	X	66.25111	25.84302	256.71499	7.36830	0.4169760	0.29144808	2.25	1.31	3.19	Mc	11 30.2	22.1
496872 2000 SH_{5}	17.4	X	291.44245	72.04432	343.72976	27.62374	0.3931284	0.23057960	2.63	1.60	3.67	Mc	8 10.5	21.0
496873 2000 SJ_{9}	16.4	X	280.89385	94.99965	353.31703	27.32450	0.4049743	0.23212366	2.62	1.56	3.68	Mc	9 3.7	19.9
496874 2000 SN_{21}	18.2	X	34.32820	358.32525	355.43651	9.16793	0.2919212	0.28856478	2.27	1.61	2.93	Mc	—	—
496890 2000 VR_{23}	17.6	X	16.03167	144.82044	232.53917	5.28061	0.2726026	0.28622752	2.28	1.66	2.90	Mc	—	—
496895 2001 AF_{47}	17.0	X	322.96711	69.02052	49.99996	21.81763	0.3152495	0.28387488	2.29	1.57	3.02	Mc	—	—
496896 2001 AT_{47}	16.6	X	287.79082	103.73119	319.11886	25.80970	0.4790890	0.22679653	2.66	1.39	3.94	Mc	7 27.1	20.5
496897 2001 BZ_{15}	19.2	X	280.04999	30.77056	129.69721	25.09183	0.0177975	0.57227553	1.44	1.41	1.46	Mc	—	—
496916 2001 SX_{288}	18.5	X	229.66284	183.46373	187.61775	32.61908	0.1928560	0.43318332	1.73	1.40	2.06	Mc	4 10.6	20.7
496965 2002 PQ_{40}	17.5	X	286.44578	193.54927	169.98666	13.53609	0.4350052	0.20048146	2.89	1.63	4.15	Mc	5 16.4	22.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
496970 2002 QV_5	17.7	X	28.57519	329.42757	359.77512	5.61962	0.3423863	0.26585070	2.40	1.58	3.22	Mc	12 11.4	20.8
497004 2002 VN_{14}	18.7	X	199.97489	294.37664	36.75327	25.40420	0.2531380	0.39188791	1.85	1.38	2.32	Mc	2 3.6	22.1
497006 2002 YE_{12}	18.2	X	117.55432	335.63206	102.88962	37.49607	0.0701917	0.44034205	1.71	1.59	1.83	Mc	2 8.1	20.0
497009 2003 BU_{35}	16.4	X	210.72888	213.73639	261.05473	12.70333	0.5753281	0.14297533	3.62	1.54	5.71	Jc	7 26.3	23.7
497019 2003 GN_{51}	19.6	X	64.70283	228.74681	172.51743	19.55368	0.0466750	0.58117717	1.42	1.36	1.49	Mc	—	—
497026 2003 QP_{49}	18.6	X	10.06814	243.79534	145.71125	6.30732	0.3594301	0.28138260	2.31	1.48	3.14	Mc	—	—
497032 2003 SG	18.6	X	40.61295	156.97632	206.02852	7.45010	0.3085979	0.28415602	2.29	1.58	3.00	Mc	—	—
497036 2003 SA_{32}	18.6	X	13.45217	31.90430	343.93229	8.91657	0.3194605	0.28083769	2.31	1.57	3.05	Mc	—	—
497049 2003 SW_{324}	18.8	X	46.57363	307.09559	7.01502	4.26862	0.3093509	0.28086171	2.31	1.59	3.02	Mc	12 10.1	22.1
497084 2003 WC_{83}	17.7	X	34.80984	288.61566	76.61099	23.39760	0.2885060	0.28102455	2.31	1.64	2.97	Mc	—	—
497091 2003 YO_6	18.5	X	318.98629	80.08018	0.48818	5.12786	0.3160942	0.27296642	2.35	1.61	3.10	Mc	12 25.4	19.2
497093 2003 YP_{146}	17.6	X	298.41003	75.20871	39.77538	6.22556	0.3753515	0.27171480	2.36	1.47	3.25	Mc	11 27.9	18.3
497099 2004 BB_{85}	17.0	X	311.48306	301.22727	126.70056	28.91680	0.4205639	0.27183148	2.36	1.37	3.35	Mc	10 24.9	18.9
497112 2004 EH	17.2	X	4.10869	101.20540	155.10985	27.21826	0.4486807	0.23210985	2.62	1.45	3.80	Mc	5 29.7	18.9
497130 2004 PC_{67}	17.2	X	328.01421	62.25815	315.39610	27.69957	0.4253036	0.23256058	2.62	1.51	3.73	Mc	8 11.8	18.4
497133 2004 PV_{97}	18.1	X	80.65457	301.87517	17.27460	6.22781	0.2445862	0.30489064	2.19	1.65	2.72	Mc	—	—
497138 2004 RE_{10}	17.5	X	308.14735	276.50327	102.35706	8.65799	0.4021108	0.22770188	2.66	1.59	3.72	Mc	7 1.8	20.5
497164 2004 RR_{324}	17.7	X	279.91881	127.14640	284.42935	6.19758	0.4008440	0.22452827	2.68	1.61	3.76	Mc	7 10.1	21.7
497168 2004 SG_5	18.1	X	47.63420	347.02424	39.34009	8.20903	0.3412570	0.30303956	2.20	1.45	2.94	Mc	—	—
497205 2004 TD_{328}	18.1	X	79.64822	239.26772	93.92303	8.12868	0.2554362	0.30297837	2.20	1.63	2.76	Mc	—	—
497230 2005 CU_{25}	18.0	X	63.93753	122.29002	93.58286	8.80572	0.4640520	0.25815561	2.44	1.31	3.58	Mc	9 14.6	21.9
497257 2005 JY	16.2	X	279.56252	101.38048	212.32707	21.52589	0.4920482	0.17589911	3.15	1.60	4.71	Mc	3 3.7	22.2
497483 2005 YE_{277}	17.3	X	307.67749	128.22294	255.55869	4.54773	0.3627097	0.23583229	2.59	1.65	3.54	Mc	7 15.1	19.8
497503 2006 BL_6	16.8	X	298.76660	77.77387	335.21946	26.78177	0.4354009	0.23531821	2.60	1.47	3.73	Mc	8 7.4	20.0
497504 2006 BG_9	17.0	X	294.21264	89.58488	329.05473	26.82708	0.4057898	0.23543786	2.60	1.54	3.65	Mc	8 10.5	20.2
497578 2006 FA_{47}	17.8	X	79.58083	129.25661	134.01168	8.91010	0.3851986	0.27915226	2.32	1.43	3.21	Mc	11 15.9	22.0
497586 2006 HS_{61}	16.7	X	296.55992	63.55824	25.76720	28.90602	0.4095862	0.23575436	2.60	1.53	3.66	Mc	10 3.0	19.3
497614 2006 QQ_7	17.7	X	13.27021	351.49041	352.15051	5.97745	0.3500089	0.26788531	2.38	1.55	3.22	Mc	12 11.4	20.2
497616 2006 QF_{13}	17.9	X	54.91923	238.86698	94.71478	5.49306	0.2915691	0.27572198	2.34	1.66	3.02	Mc	—	—
497676 2006 SR_2	17.6	X	50.29928	102.65476	201.99679	20.50010	0.3432403	0.27135033	2.36	1.55	3.17	Mc	12 5.2	21.5
497887 2006 UM_{266}	17.8	X	24.36382	287.84243	44.75177	8.41184	0.3182165	0.26621887	2.39	1.63	3.15	Mc	12 6.4	20.6
498046 2007 PT_{27}	18.0	X	79.60055	146.61936	178.35811	3.41970	0.2982574	0.30028890	2.21	1.55	2.87	Mc	—	—
498047 2007 PR_{30}	18.2	X	43.92410	102.76348	243.74136	4.47445	0.2616161	0.29521660	2.23	1.65	2.82	Mc	—	—
498062 2007 RU_{104}	18.1	X	53.01340	12.87322	354.33259	5.49727	0.2492932	0.29818521	2.22	1.67	2.77	Mc	—	—
498144 2007 TR_{73}	17.7	X	75.47656	359.94551	317.71331	11.98360	0.3519051	0.29514337	2.23	1.45	3.02	Mc	—	—
498152 2007 TK_{111}	17.6	X	58.94945	324.27990	341.79354	6.98013	0.3009804	0.29068973	2.26	1.58	2.94	Mc	12 12.2	21.1
498344 2007 VX_{258}	17.9	X	269.21135	262.45084	81.69049	10.04115	0.4970567	0.19501940	2.94	1.48	4.41	Mc	4 8.6	23.5
498422 2008 AZ_{41}	17.1	X	49.35101	251.76566	311.00750	27.25921	0.3655137	0.23726891	2.58	1.64	3.53	Mc	7 24.1	20.0
498541 2008 GA_{26}	18.6	X	301.87902	78.11813	42.32885	7.02834	0.3424351	0.27754735	2.33	1.53	3.12	Mc	—	—
498664 2008 SZ_{136}	17.9	X	289.50655	168.42607	217.93850	4.12047	0.4220314	0.21719609	2.74	1.58	3.90	Mc	6 14.9	22.1
498677 2008 SS_{207}	17.4	X	299.18803	177.00074	204.64635	18.45721	0.4716910	0.22095471	2.71	1.43	3.99	Mc	6 11.6	21.6
498761 2008 UH_{33}	18.8	X	98.82639	146.51041	181.70594	3.83806	0.2365105	0.32166935	2.11	1.61	2.61	Mc	—	—
498901 2009 AU_1	14.4	X	114.23118	269.76357	133.64142	26.17419	0.4972591	0.10038073	4.59	2.31	6.87	Jc	4 8.4	22.2
499116 2009 HF_{78}	18.4	X	67.70545	77.71431	177.88093	3.51288	0.3181322	0.26330772	2.41	1.64	3.18	Mc	10 18.1	21.9
499140 2009 RL_1	17.9	X	308.11269	72.37925	254.12242	5.02354	0.3812531	0.23580999	2.59	1.61	3.58	Mc	4 22.1	21.5
499442 2010 DG_{78}	18.8	X	308.56383	263.65843	329.50160	13.64156	0.2409838	0.43106646	1.74	1.32	2.15	Mc	—	—
499517 2010 PX_{24}	18.0	X	49.60310	151.69285	154.77001	6.72079	0.2881625	0.28116787	2.31	1.64	2.97	Mc	12 2.7	21.3
499825 2011 DB_{22}	17.2	X	288.67181	120.71158	353.18547	21.94516	0.3169493	0.26138012	2.42	1.65	3.19	Mc	10 24.8	19.8
500026 2011 SS_{21}	19.0	X	108.95946	279.58567	4.72352	3.25192	0.3164222	0.31870839	2.12	1.45	2.79	Mc	12 28.1	22.8
500638 2012 VS_1	17.7	X	170.52259	10.78405	8.17897	14.75542	0.2697270	0.39956567	1.83	1.33	2.32	Mc	3 7.1	20.2
500749 2013 AP_{60}	16.9	X	285.39495	49.20758	251.06467	21.89021	0.7502417	0.20269356	2.87	0.72	5.02	Jc	1 30.1	23.4
500769 2013 CX_{45}	17.7	X	116.72799	284.39740	298.62594	7.31628	0.3134421	0.28778075	2.27	1.56	2.98	Mc	10 14.4	21.8
500787 2013 EJ_{107}	17.2	X	112.21850	233.02408	38.32073	22.87770	0.3568503	0.29098767	2.26	1.45	3.06	Mc	12 8.2	21.7
500788 2013 EP_{109}	17.4	X	118.50437	148.38650	72.56805	10.99693	0.2891717	0.28584645	2.28	1.62	2.94	Mc	10 20.2	21.5
500791 2013 EQ_{123}	18.2	X	104.28378	242.29187	34.68547	6.59490	0.2632329	0.29186137	2.25	1.66	2.84	Mc	12 10.5	22.1
500815 2013 GU_{87}	18.0	X	117.84675	159.85672	154.08679	6.81383	0.2574043	0.30259925	2.20	1.63	2.76	Mc	—	—
500912 2013 OL_5	18.2	X	340.36817	91.07522	280.48092	13.76395	0.4183338	0.24884602	2.50	1.46	3.55	Mc	10 16.4	19.0
501115 2013 TU_{12}	17.0	X	349.08627	111.99082	222.12560	24.85035	0.4022493	0.24109610	2.56	1.53	3.59	Mc	8 22.5	18.8
501216 2013 UW	17.3	X	279.03781	80.54383	19.89708	28.01506	0.3661043	0.23294986	2.62	1.66	3.57	Mc	9 26.8	20.8
501575 2014 OB_{232}	19.7	X	106.16144	78.19628	287.68680	1.44101	0.2176735	0.33524420	2.05	1.61	2.50	Mc	—	—
501585 2014 QA_{43}	11.4	X	28.27615	247.95190	118.39006	37.21295	0.5072939	0.03276851	9.67	4.77	14.58	Jc	12 30.9	19.9
501606 2014 QC_{369}	18.6	X	50.16587	215.99800	139.23035	5.78816	0.2345562	0.30977910	2.16	1.66	2.67	Mc	—	—
501612 2014 RE	17.8	X	351.62250	186.72560	226.72501	6.03518	0.3440147	0.29252964	2.25	1.47	3.02	Mc	—	—
501621 2014 SG_{144}	18.5	X	112.94116	139.55053	133.43976	3.78270	0.2441077	0.30924312	2.17	1.64	2.69	Mc	12 14.8	22.0
501646 2014 SC_{223}	18.3	X	70.81790	290.98866	40.24689	8.55827	0.2666663	0.30771064	2.17	1.59	2.75	Mc	—	—
501665 2014 SD_{343}	19.0	X	72.68482	66.62869	281.20145	0.57111	0.2467989	0.31462772	2.14	1.61	2.67	Mc	—	—
501691 2014 TJ_{74}	17.8	X	73.58884	233.31823	79.19774	7.74293	0.2522936	0.29889526	2.22	1.66	2.77	Mc	12 30.3	21.3
501731 2014 UG_{84}	18.3	X	50.10810	276.08417	56.95316	2.13545	0.2664677	0.29571891	2.23	1.64	2.83	Mc	—	—
501743 2014 UM_{116}	18.2	X	71.61569	23.24374	285.53786	5.57719	0.2580139	0.29648644	2.23	1.65	2.80	Mc	12 24.2	21.5
501767 2014 UA_{184}	18.4	X	75.88749	242.15744	62.69395	3.07897	0.2643230	0.29875132	2.22	1.63	2.80	Mc	12 23.7	21.8
501771 2014 UQ_{204}	17.9	X	63.36856	157.78313	172.93093	5.24729	0.2511338	0.29893768	2.22	1.66	2.77	Mc	—	—
501827 2014 WY_{104}	18.5	X	79.55487	293.84194	43.68640	5.03650	0.2320017	0.31475535	2.14	1.64	2.64	Mc	—	—
501935 2014 XO_6	18.6	X	77.96324	231.69762	103.63460	7.87986	0.3284139	0.30676874	2.18	1.46	2.89	Mc	—	—
501956 2014 YC_{10}	17.2	X	31.57152	117.87115	284.31217	22.59776	0.2801192	0.29690350	2.23	1.60	2.85	Mc	—	—
502579 2015 BJ_{512}	17.0	X	335.07964	265.16871	138.61666	23.29586	0.3096224	0.27340971	2.35	1.62	3.08	Mc	12 18.1	18.9
503369 2016 CQ_{23}	17.1	X	126.71857	279.59016	313.31172	23.51977	0.2833152	0.28221380	2.30	1.65	2.95	Mc	10 23.9	21.7
503434 2016 ES_{55}	19.1	X	115.38067	297.48342	164.33171	13.75726	0.2595395	0.40327577	1.81	1.34	2.29	Mc	5 4.1	21.1
503848 4702 $P–L$	18.2	X	76.69310	243.48407	77.12065	0.78419	0.2795398	0.29434823	2.24	1.61	2.86	Mc	—	—
503859 1998 QO_{52}	18.5	X	332.61105	224.09989	163.95068	6.20477	0.4146814	0.25770846	2.45	1.43	3.46	Mc	10 31.3	18.2
503864 1999 SJ_{24}	18.5	X	13.76365	23.88907	7.15730	1.11965	0.2910601	0.27518028	2.34	1.66	3.02	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
503874 2000 SH_{272}	18.6	X	60.36762	41.02846	298.55829	1.51073	0.2904036	0.29053604	2.26	1.60	2.91	Mc	—	—
503879 2000 UJ_{3}	17.5	X	341.06483	39.79056	45.44052	27.44759	0.3318532	0.28576637	2.28	1.53	3.04	Mc	—	—
503881 2001 BZ_{2}	16.8	X	298.30381	307.24703	128.49166	32.46062	0.4727667	0.22874558	2.65	1.40	3.90	Mc	8 24.8	20.0
503886 2001 SM_{243}	17.3	X	293.96309	120.14507	192.09006	22.06287	0.4705540	0.18784843	3.02	1.60	4.44	Mc	3 15.6	22.6
503928 2003 EL_{35}	19.5	X	137.36529	172.66755	343.84558	8.92022	0.2008480	0.44897110	1.69	1.35	2.03	Mc	8 13.9	21.5
503984 2004 TT_{99}	18.8	X	98.44774	157.31087	166.29678	2.07323	0.2761221	0.30491936	2.19	1.58	2.79	Mc	—	—
503985 2004 TU_{108}	18.4	X	113.44124	107.97171	197.46135	5.05303	0.2704706	0.30589157	2.18	1.59	2.77	Mc	—	—
504012 2005 JC_{46}	16.5	X	314.82620	204.65017	69.23358	38.62482	0.5028790	0.17672667	3.14	1.56	4.73	Mc	3 6.4	22.0
504024 2005 QA_{181}	18.7	X	78.86123	127.81985	346.11728	24.03122	0.0864804	0.40828777	1.80	1.64	1.96	Mc	2 13.8	20.0
504034 2005 UJ_{159}	17.6	X	192.60311	95.50024	80.67226	35.48363	0.8315189	0.16142411	3.34	0.56	6.12	Jc	10 13.2	25.6
504090 2006 DW	17.9	X	297.90238	86.25044	354.42926	25.79281	0.4544845	0.23781964	2.58	1.41	3.75	Mc	9 7.9	20.5
504315 2007 RF_{24}	18.5	X	69.38681	62.61951	269.24644	3.39893	0.2667729	0.29750460	2.22	1.63	2.82	Mc	—	—
504322 2007 RL_{192}	18.3	X	53.41301	213.65522	132.28223	3.43135	0.2761887	0.29549014	2.23	1.62	2.85	Mc	—	—
504568 2008 TO_{26}	19.9	X	26.27245	330.07774	37.96842	19.84514	0.0849473	0.54545588	1.48	1.36	1.61	Mc	—	—
504819 2010 GL_{67}	17.2	X	275.00115	288.55759	208.90858	28.03864	0.3655212	0.23510299	2.60	1.65	3.55	Mc	11 1.1	20.3
504848 2010 SG_{3}	18.9	X	46.39591	25.05755	318.88806	2.50726	0.3202448	0.28188245	2.30	1.57	3.04	Mc	—	—
504857 2010 TY_{148}	17.7	X	18.10275	342.09534	6.59210	5.87721	0.2898724	0.27500008	2.34	1.66	3.02	Mc	12 17.5	20.3
504869 2010 VQ_{25}	17.9	X	14.80580	307.93423	53.52904	9.56905	0.3080544	0.27405707	2.35	1.62	3.07	Mc	—	—
504901 2011 AJ_{11}	17.5	X	302.75177	73.62386	73.84428	21.69235	0.3440431	0.27216526	2.36	1.55	3.17	Mc	—	—
505001 2011 KO_{15}	16.7	X	330.15188	326.45360	258.81630	24.68081	0.5039895	0.18668328	3.03	1.50	4.56	Mc	—	—
505335 2013 AH_{27}	19.0	X	75.84803	295.08477	209.52041	2.77195	0.2881412	0.37663780	1.90	1.35	2.45	Mc	5 14.7	19.9
505348 2013 BL_{70}	18.7	X	55.75691	201.83382	277.78230	8.80114	0.2198727	0.36601976	1.94	1.51	2.36	Mc	1 1.0	18.7
505370 2013 HN_{37}	17.7	X	49.33190	335.78363	16.43669	26.78727	0.2940647	0.29716292	2.22	1.57	2.88	Mc	—	—
505416 2013 RT_{16}	17.2	X	6.00714	234.10437	188.58934	20.15637	0.3373962	0.26404190	2.41	1.59	3.22	Mc	—	—
505461 2013 TZ_{80}	17.7	X	301.50099	15.83452	99.81854	3.72563	0.3601915	0.25424398	2.47	1.58	3.36	Mc	12 6.2	18.5
505463 2013 TV_{92}	18.4	X	335.80745	47.50393	30.92768	4.54285	0.3945251	0.25375752	2.47	1.50	3.45	Mc	—	—
505590 2014 CA_{5}	17.7	X	295.29252	96.08111	350.88420	27.33030	0.4247293	0.23659191	2.59	1.49	3.69	Mc	9 13.3	20.0
505655 2014 SZ_{307}	18.7	X	79.30444	129.11055	205.41250	6.24608	0.2665810	0.31138341	2.16	1.58	2.73	Mc	—	—
505728 2015 AN_{266}	17.9	X	48.66459	246.50327	113.17337	9.31168	0.2888295	0.29308989	2.24	1.60	2.89	Mc	—	—
505831 2015 CA	17.8	X	348.30410	235.68651	185.81823	24.49933	0.3456656	0.28135611	2.31	1.51	3.10	Mc	—	—
505977 2015 FY_{344}	17.0	X	16.68921	67.48697	22.88435	23.92981	0.3539168	0.28204173	2.30	1.49	3.12	Mc	—	—
506119 2016 BQ_{61}	18.6	X	145.30714	169.90246	309.32821	19.63962	0.1362229	0.42940551	1.74	1.50	1.98	Mc	6 20.2	20.8
506297 2017 MS_{6}	17.6	X	332.89371	217.41411	102.41812	7.62889	0.4201997	0.23059482	2.63	1.53	3.74	Mc	5 20.4	19.8
506298 2017 ME_{8}	18.1	X	25.68654	247.42586	98.51662	3.34831	0.3032396	0.27797178	2.33	1.62	3.03	Mc	12 27.1	20.9
506348 2017 OK_{52}	17.2	X	34.25174	356.88919	337.39079	4.91342	0.2934658	0.28430556	2.29	1.62	2.96	Mc	12 21.9	20.3
506355 2017 PB_{25}	17.2	X	343.36303	67.04388	289.47454	10.79993	0.3518643	0.23989117	2.57	1.66	3.47	Mc	9 17.5	18.5
506409 2017 SF_{13}	18.3	X	102.85619	139.83656	150.05133	6.11368	0.2725578	0.29519236	2.23	1.63	2.84	Mc	12 26.4	22.2
506420 1999 VW_{29}	18.2	X	25.10002	152.73881	236.09260	7.11154	0.2919353	0.27465389	2.34	1.66	3.03	Mc	—	—
506425 2000 DQ_{110}	16.6	X	189.67692	95.45725	347.81934	58.27155	0.6295746	0.16009398	3.36	1.24	5.47	Jc	—	—
506427 2000 RE_{34}	17.5	X	337.87393	72.77884	268.37028	4.34891	0.3760127	0.23355083	2.61	1.63	3.59	Mc	7 22.5	18.6
506428 2000 SJ_{100}	17.6	X	61.92091	77.76824	288.57466	6.80730	0.2678387	0.29218809	2.25	1.65	2.85	Mc	—	—
506437 2000 WL_{10}	18.0	X	255.30886	115.21302	252.04402	10.25789	0.7177135	0.17722048	3.14	0.89	5.39	Jc	4 9.4	24.8
506441 2001 AV_{19}	15.9	X	255.85349	80.06613	93.01513	28.22444	0.3745902	0.23273585	2.62	1.64	3.60	Mc	11 27.9	19.8
506442 2001 AW_{19}	17.6	X	30.44448	112.69488	291.29677	22.48179	0.3188659	0.28713562	2.28	1.55	3.00	Mc	—	—
506443 2001 CM_{35}	17.7	X	227.48832	93.67570	85.58671	8.48958	0.4134846	0.22555999	2.67	1.57	3.78	Mc	11 1.3	22.5
506446 2001 RD_{142}	16.5	X	280.07118	282.22793	102.13515	14.61066	0.4612371	0.18901998	3.01	1.62	4.39	Mc	6 2.3	21.6
506448 2001 SN_{355}	18.4	X	107.11012	198.17939	131.17376	4.90823	0.2415146	0.31053198	2.16	1.64	2.68	Mc	—	—
506480 2003 QV_{52}	18.3	X	91.10899	321.96205	352.55384	8.29185	0.2794062	0.28857046	2.27	1.63	2.90	Mc	—	—
506490 2003 UO_{27}	16.8	X	316.98945	332.86298	61.41056	14.84621	0.4505183	0.21713317	2.74	1.51	3.98	Mc	8 6.8	19.4
506504 2004 BT_{68}	18.0	X	323.45573	252.19181	289.87674	22.25442	0.3438132	0.28077104	2.31	1.52	3.10	Mc	—	—
506515 2004 RG_{174}	18.9	X	92.22211	135.26517	200.38126	3.98822	0.2481642	0.30741055	2.17	1.63	2.71	Mc	—	—
506601 2006 AD_{104}	18.0	X	333.77780	88.60961	332.34033	5.48545	0.4186067	0.24247835	2.55	1.48	3.61	Mc	—	—
506782 2007 AN_{10}	17.4	X	50.54294	274.08508	104.91273	22.36394	0.3312170	0.27026459	2.37	1.58	3.15	Mc	—	—
506808 2007 MG_{6}	17.2	X	356.11501	74.01711	229.21575	15.10199	0.4707847	0.21268967	2.78	1.47	4.09	Mc	7 20.8	18.0
506810 2007 RH_{32}	17.9	X	117.50920	259.37641	72.32799	5.22677	0.2373294	0.30670674	2.18	1.66	2.69	Mc	—	—
506813 2007 RQ_{56}	18.3	X	131.99364	87.21710	216.09674	4.44468	0.2568534	0.30479001	2.19	1.63	2.75	Mc	—	—
506847 2007 US_{9}	18.6	X	68.32090	309.40654	59.33781	6.49048	0.2501348	0.29946721	2.21	1.66	2.77	Mc	—	—
507013 2008 TP_{165}	15.6	X	181.72539	22.28136	45.88796	14.31220	0.2995148	0.12038533	4.06	2.85	5.28	Jc	5 26.3	22.5
507119 2009 SR_{143}	16.5	X	215.91504	121.01042	194.30639	5.91641	0.5262876	0.12963932	3.87	1.83	5.90	Jc	2 8.9	24.0
507156 2009 YE	15.8	X	217.96609	110.42424	82.43866	29.56376	0.3811225	0.22863581	2.65	1.64	3.66	Mc	11 18.9	20.8
507261 2011 CO_{46}	18.2	X	128.30595	216.67798	321.46702	12.60087	0.2530289	0.41560199	1.78	1.33	2.23	Mc	9 1.5	20.8
507366 2011 XO_{3}	16.8	X	207.48343	209.80154	321.31182	23.90210	0.6614587	0.16932245	3.24	1.10	5.38	Jc	9 15.8	23.9
507411 2012 MQ_{6}	16.7	X	26.66979	264.79606	85.41357	28.71914	0.3621741	0.23408066	2.61	1.66	3.55	Mc	12 31.4	20.2
507414 2012 PE	18.3	X	157.98168	228.41591	287.49444	20.62864	0.0389256	0.44279512	1.70	1.64	1.77	Mc	8 20.0	20.2
507639 2013 LU_{34}	18.2	X	86.89530	66.78973	240.22199	21.43003	0.3090247	0.28416055	2.29	1.58	3.00	Mc	12 31.7	22.5
507799 2014 BV_{57}	17.1	X	312.28422	73.52733	348.12469	28.33333	0.3772447	0.23447194	2.60	1.62	3.59	Mc	9 17.4	18.9
508341 2015 XB_{1}	18.7	X	302.27202	83.53343	237.68871	28.61065	0.1617130	0.45324858	1.68	1.41	1.95	Mc	4 18.4	20.4
508428 2016 JU_{36}	18.2	X	175.48280	115.10265	142.59498	5.17485	0.2740159	0.29160853	2.25	1.64	2.87	Mc	—	—
508453 2016 NF_{1}	17.0	X	71.65665	261.40507	126.80708	24.13076	0.2655090	0.28898422	2.27	1.66	2.87	Mc	—	—
508594 2017 OJ_{61}	18.8	X	41.70928	23.48063	348.80601	1.90124	0.2549761	0.29765647	2.22	1.66	2.79	Mc	—	—
508765 2108 $P–L$	18.8	X	40.69819	6.15790	344.04793	2.59543	0.3872045	0.27735527	2.33	1.43	3.23	Mc	—	—
508776 1999 RF_{108}	16.9	X	341.28921	107.86096	289.29218	6.96329	0.3796981	0.22576441	2.67	1.66	3.69	Mc	12 6.4	18.0
508779 1999 VB_{138}	17.8	X	62.68227	340.42359	37.78991	10.30846	0.3491079	0.27907735	2.32	1.51	3.13	Mc	—	—
508784 1999 XV_{81}	18.1	X	292.56036	216.11459	252.33353	3.79563	0.4600060	0.22266074	2.70	1.46	3.94	Mc	9 28.3	21.1
508791 2000 EH_{104}	18.0	X	236.96932	141.87048	49.13568	5.49666	0.4656244	0.21525905	2.76	1.47	4.04	Mc	11 13.1	22.6
508798 2000 QB_{149}	17.9	X	145.53175	22.06398	316.67894	6.66171	0.2440208	0.30358658	2.19	1.66	2.73	Mc	—	—
508805 2000 TT_{28}	17.8	X	324.20287	134.50771	302.53730	6.86491	0.4631658	0.23726865	2.58	1.39	3.78	Mc	12 25.8	17.3
508808 2000 UK_{19}	17.3	X	23.82924	285.21155	58.70216	13.28950	0.3625611	0.23813355	2.58	1.64	3.51	Mc	12 21.6	20.6
508810 2000 WD_{13}	16.3	X	301.11804	68.54351	92.55730	28.21990	0.4867705	0.23391756	2.61	1.34	3.88	Mc	—	—
508815 2000 XE_{2}	18.7	X	10.95993	16.79285	43.89063	7.37432	0.4255065	0.28708018	2.28	1.31	3.24	Mc	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
508818 2001 DC_1	16.6	X	268.02849	78.73440	143.87067	28.83078	0.3624307	0.23414938	2.61	1.66	3.55	Mc	—	—
508825 2001 SK_{169}	17.4	X	259.48083	264.58444	177.14633	20.10663	0.5634031	0.18768907	3.02	1.32	4.72	Mc	7 13.3	23.4
508858 2002 PQ_{88}	18.2	X	39.53084	276.25045	116.30796	5.52375	0.3080313	0.27121226	2.36	1.64	3.09	Mc	—	—
508861 2002 RN_{38}	17.3	X	182.22674	118.60767	296.15549	4.16045	0.6729722	0.13218895	3.82	1.25	6.39	Jc	5 13.4	25.2
508881 2003 SZ_{121}	17.9	X	35.70807	196.87144	201.17407	4.90237	0.3374903	0.28602084	2.28	1.51	3.05	Mc	—	—
508907 2003 XH_{14}	16.8	X	82.91091	95.72133	293.78372	20.57663	0.3528199	0.28972531	2.26	1.46	3.06	Mc	—	—
508932 2004 JY_{11}	17.6	X	321.40897	78.18067	117.46349	22.54795	0.3083842	0.27708847	2.33	1.61	3.05	Mc	—	—
508940 2004 RQ_{165}	17.8	X	358.01750	42.86458	353.14257	4.18079	0.3625164	0.23578737	2.59	1.65	3.54	Mc	—	—
508951 2004 TC_{20}	17.5	X	3.36804	267.75556	95.65063	28.37640	0.4166076	0.23644366	2.59	1.51	3.67	Mc	12 26.7	19.8
508985 2005 EH_{70}	17.2	X	262.20297	328.25143	189.30567	8.03802	0.4219292	0.22482694	2.68	1.55	3.81	Mc	11 1.8	21.1
508987 2005 ER_{133}	17.7	X	34.01116	88.75519	357.14612	22.86935	0.3120098	0.30028474	2.21	1.52	2.90	Mc	—	—
509018 2005 NE_1	17.5	X	251.41156	234.63291	339.04602	3.18425	0.4239230	0.22217932	2.70	1.56	3.84	Mc	12 27.1	21.3
509024 2005 PZ_1	16.9	X	26.75175	22.07655	356.34953	18.28516	0.4073363	0.25558894	2.46	1.46	3.46	Mc	—	—
509025 2005 PR_4	17.3	X	68.92782	310.19165	67.61082	10.48253	0.3372077	0.26556606	2.40	1.59	3.21	Mc	—	—
509193 2006 OX_{19}	17.4	X	90.86366	159.57813	161.90322	12.40561	0.3751725	0.28266862	2.30	1.44	3.16	Mc	—	—
509280 2006 VQ_4	17.3	X	19.57537	344.35618	48.13920	7.49069	0.2961184	0.27076963	2.37	1.67	3.07	Mc	—	—
509529 2007 YG_1	18.3	X	259.53098	48.41439	301.96874	13.92422	0.2659415	0.39964111	1.83	1.34	2.31	Mc	3 29.9	21.3
509563 2008 CG_{21}	18.4	X	45.63158	106.56964	353.13301	7.67469	0.3658337	0.29960261	2.21	1.40	3.02	Mc	—	—
509594 2008 DA_{38}	17.5	X	205.23468	31.77614	179.78775	5.95026	0.4420272	0.19366678	2.96	1.65	4.27	Mc	11 18.3	23.2
509608 2008 ES_{91}	17.3	X	269.96473	88.95196	111.05896	22.21211	0.2886331	0.27876611	2.32	1.65	2.99	Mc	—	—
509806 2008 VA	19.1	X	245.47704	160.21985	223.10973	28.29993	0.0727032	0.44070856	1.71	1.59	1.83	Mc	5 26.3	20.7
509871 2009 BX_2	17.0	X	337.82583	269.18420	122.40200	14.13541	0.4117466	0.22630408	2.67	1.57	3.76	Mc	11 22.2	18.2
509895 2009 BT_{178}	16.9	X	262.65818	246.99308	334.15856	27.30445	0.4276895	0.22569681	2.67	1.53	3.81	Mc	—	—
509981 2009 TH_{23}	17.6	X	72.01236	131.05834	220.66030	6.43261	0.3323294	0.26399227	2.41	1.61	3.21	Mc	—	—
509985 2009 UE_{51}	18.6	X	145.17975	227.08245	222.12703	11.91245	0.1665999	0.37996482	1.89	1.57	2.20	Mc	5 7.1	20.5
510013 2009 YZ_1	17.3	X	320.03392	273.24438	104.23357	28.48013	0.4012777	0.23697183	2.59	1.55	3.62	Mc	7 24.6	19.4
510137 2010 UK_{70}	18.3	X	73.91083	297.59704	70.50140	2.64053	0.2681617	0.29010603	2.26	1.65	2.87	Mc	—	—
510156 2010 WO_{55}	16.9	X	308.02831	257.63901	273.88389	20.70275	0.3135413	0.27759145	2.33	1.60	3.06	Mc	—	—
510178 2011 BC_{43}	17.6	X	286.87486	186.35753	44.73829	7.94213	0.3477704	0.27884768	2.32	1.51	3.13	Mc	—	—
510189 2011 CZ_4	17.7	X	319.25692	269.76580	325.15416	21.09635	0.3847393	0.28852043	2.27	1.40	3.14	Mc	1 6.9	21.5
510410 2011 UT_{192}	19.4	X	94.18839	57.81140	219.09060	25.79776	0.1141460	0.50766801	1.56	1.38	1.73	Mc	12 27.8	21.5
510421 2011 UX_{280}	17.1	X	74.08882	108.09973	209.17479	8.31772	0.4473260	0.21355670	2.77	1.53	4.01	Mc	—	—
510996 2013 KA_3	18.8	X	340.92260	53.94466	282.41099	21.75860	0.1580647	0.49135293	1.59	1.34	1.84	Mc	9 3.8	19.8
511006 2013 OZ_7	18.2	X	101.10036	87.61403	226.39660	3.95809	0.2824236	0.28420995	2.29	1.64	2.94	Mc	—	—
511019 2013 QJ_6	17.3	X	71.24159	230.65524	133.45652	24.12975	0.2880550	0.28082036	2.31	1.64	2.97	Mc	—	—
511061 2013 SM_{84}	17.8	X	77.72391	97.31861	223.45286	20.70249	0.2957345	0.27170515	2.36	1.66	3.06	Mc	—	—
511067 2013 TS_{10}	17.9	X	80.26284	224.73590	132.60118	6.45405	0.3130262	0.27823616	2.32	1.60	3.05	Mc	—	—
511075 2013 TD_{48}	17.6	X	101.48841	63.19458	272.22269	7.67037	0.2858801	0.28024612	2.31	1.65	2.97	Mc	—	—
511096 2013 TO_{139}	16.8	X	285.02255	318.23598	56.57796	10.72306	0.3931948	0.22551503	2.67	1.62	3.72	Mc	5 29.4	20.8
511108 2013 WE	17.8	X	33.85795	287.54250	112.88360	22.83707	0.3276335	0.26900318	2.38	1.60	3.16	Mc	—	—
511114 2013 WX_{24}	17.7	X	328.47345	316.38960	180.22216	7.40120	0.4657180	0.25870125	2.44	1.30	3.58	Mc	—	—
511140 2013 YJ_2	17.3	X	253.83083	267.47067	234.78092	26.05388	0.4045935	0.23343528	2.61	1.56	3.67	Mc	10 2.1	21.9
511434 2014 JA	18.4	X	283.18896	271.60205	54.47458	23.88852	0.0791865	0.41710616	1.77	1.63	1.91	Mc	4 27.3	20.0
511548 2014 UO_{117}	18.7	X	13.73996	243.87200	7.85680	8.99304	0.1163280	0.39051844	1.85	1.64	2.07	Mc	6 2.0	19.7
511787 2015 EF_{63}	17.7	X	249.91626	215.49451	39.96149	8.32925	0.2722473	0.28462407	2.29	1.67	2.91	Mc	—	—
511795 2015 FR_{35}	18.5	X	35.38399	206.93622	253.13689	6.09584	0.2587306	0.30402577	2.19	1.62	2.76	Mc	—	—
512979 2017 UA_{10}	17.7	X	67.89807	13.12067	323.59384	7.36648	0.2612435	0.29348023	2.24	1.66	2.83	Mc	—	—
513022 2017 VD_1	18.1	X	128.12616	328.48605	2.08403	6.19565	0.2285116	0.32228768	2.11	1.63	2.59	Mc	—	—
513080 2017 WJ_{21}	17.1	X	3.47086	93.47955	227.51056	15.94947	0.3954357	0.23787091	2.58	1.56	3.60	Mc	10 14.5	18.7
513132 2000 SH_{136}	18.1	X	123.80611	42.26266	324.43158	3.66502	0.3193187	0.30093866	2.21	1.50	2.91	Mc	1 17.1	20.5
513135 2001 BF_{21}	16.8	X	20.07629	70.03204	308.72422	27.93162	0.3719135	0.23570857	2.60	1.63	3.56	Mc	—	—
513145 2002 XY_{69}	17.7	X	324.66722	102.51878	8.58918	22.05633	0.3689053	0.26224645	2.42	1.53	3.31	Mc	—	—
513233 2005 WE_2	18.4	X	285.27510	280.84777	79.20684	23.98607	0.1518609	0.42067387	1.76	1.50	2.03	Mc	6 7.7	19.4
513343 2007 RN_{36}	18.2	X	87.70494	154.66242	186.85598	2.95916	0.2546875	0.30090820	2.21	1.64	2.77	Mc	—	—
513479 2009 DK_{39}	17.2	X	339.43708	73.64244	349.84688	27.51588	0.3784779	0.22460484	2.68	1.67	3.69	Mc	—	—
513492 2009 FA_{14}	18.0	X	267.48292	21.41312	126.90139	17.43912	0.3988235	0.21829097	2.73	1.64	3.82	Mc	11 4.3	22.1
514031 2014 KY_{75}	16.7	X	192.90383	263.91759	6.79729	27.04246	0.4051490	0.23337356	2.61	1.55	3.67	Mc	—	—
514102 2015 AT_{44}	18.2	X	208.22578	257.75866	97.96619	13.12238	0.2539361	0.35025663	1.99	1.49	2.50	Mc	3 14.4	21.7
514105 2015 BT_{92}	19.1	X	164.24882	38.48894	261.86282	8.96307	0.0728881	0.45122682	1.68	1.56	1.81	Mc	—	—
514313 2016 CX_{29}	18.3	X	238.45056	221.70181	134.92471	23.27611	0.1147600	0.41083980	1.79	1.59	2.00	Mc	4 12.3	20.9
514560 2017 XP	17.4	X	344.11922	53.06524	48.26219	24.54266	0.2963220	0.27540975	2.34	1.65	3.03	Mc	—	—
514561 2017 XE_3	16.3	X	0.12731	56.66659	300.53799	16.17041	0.4139305	0.22853775	2.65	1.55	3.75	Mc	12 7.2	18.6
514572 1997 SU_{21}	18.8	X	95.45378	51.72036	347.59305	5.80899	0.2530716	0.30303194	2.20	1.64	2.75	Mc	1 5.1	20.4
514609 2003 TY_7	18.8	X	329.76782	2.90453	24.11158	50.07898	0.0840183	0.44060303	1.71	1.57	1.85	Mc	10 28.2	20.4
514702 2006 MP_6	18.7	X	302.78166	26.66903	269.99546	7.11337	0.3178621	0.31852235	2.12	1.45	2.80	Mc	3 5.5	22.0
514756 2007 EK_{39}	19.0	X	109.91158	80.42115	178.66532	27.60615	0.0752465	0.44893351	1.69	1.56	1.82	Mc	12 14.4	21.6
514897 2008 SB_7	16.8	X	7.09067	48.34109	12.22837	31.80401	0.3708497	0.23652993	2.59	1.63	3.55	Mc	—	—
515013 2009 SN_{69}	18.0	X	78.86625	207.40193	142.56758	3.29622	0.3084036	0.26618184	2.39	1.66	3.13	Mc	—	—
515030 2009 UM_{130}	17.3	X	60.76340	327.23023	53.55473	11.87623	0.3340923	0.26400362	2.41	1.60	3.21	Mc	—	—
515041 2010 CU_{19}	17.8	X	298.91569	289.78899	212.34811	56.55469	0.3593927	0.24463009	2.53	1.62	3.44	Mc	12 16.9	21.1
515136 2011 GB_{62}	17.8	X	353.05892	91.39559	73.64099	23.53403	0.2855825	0.28425947	2.29	1.64	2.95	Mc	—	—
515282 2012 TC_{191}	18.3	X	251.19977	297.44864	350.98511	10.84721	0.2973871	0.28644323	2.28	1.60	2.96	Mc	1 25.5	22.5
515614 2014 KF_{45}	16.8	X	209.06870	282.92462	36.68027	28.00510	0.3949232	0.23494802	2.60	1.57	3.63	Mc	2 19.9	22.5
515718 2014 UQ_{194}	14.1	X	182.71316	41.21541	46.01387	20.59980	0.2203172	0.09000771	4.93	3.84	6.02	Jc	6 16.8	21.8
516237 2016 UF_{41}	17.7	X	232.07367	249.97422	70.62386	6.12933	0.2704653	0.31134671	2.16	1.57	2.74	Mc	2 16.9	21.4
516264 2016 VC	17.6	X	191.49636	242.03112	93.42911	9.11343	0.2623121	0.29625514	2.23	1.64	2.81	Mc	2 5.8	21.4
516423 2003 JC_{11}	18.5	X	251.73078	71.01592	74.27830	21.01972	0.5583203	0.19664880	2.93	1.29	4.56	Mc	10 3.8	24.1
516460 2005 LW_7	18.5	X	286.86336	323.87573	345.78820	4.44465	0.3980745	0.29716183	2.22	1.34	3.11	Mc	3 6.4	22.4
516461 2005 LF_8	18.5	X	288.05690	297.29512	21.13769	2.66643	0.3905957	0.29782512	2.22	1.35	3.09	Mc	3 19.3	22.0
516462 2005 LF_{38}	18.2	X	268.97656	211.72849	107.68863	8.40947	0.2669042	0.29827626	2.22	1.63	2.81	Mc	3 18.9	21.8

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
516476 2005 TS_{86}	19.7	X	246.12769	251.65478	195.98546	8.43875	0.1930898	0.42774787	1.74	1.41	2.08	Mc	8 26.0	21.2
516541 2006 SX_{294}	18.3	X	253.42280	125.93329	194.24633	5.19800	0.2433991	0.30863983	2.17	1.64	2.70	Mc	3 2.0	21.8
516647 2008 HP_{46}	18.3	X	304.84963	226.32522	63.28554	9.85747	0.2839401	0.29538707	2.23	1.60	2.87	Mc	3 15.2	21.5
516725 2009 DK_{12}	15.3	X	103.09308	223.19248	62.57980	45.40853	0.4357252	0.10866967	4.35	2.45	6.24	Jc	12 4.2	22.7
516783 2009 XD_{8}	17.5	X	301.23329	62.86733	280.65191	22.69060	0.2671510	0.39484807	1.84	1.35	2.33	Mc	5 10.8	19.9
516795 2010 GZ_{62}	17.2	X	215.23201	54.87683	222.03618	14.99231	0.3995175	0.23024369	2.64	1.58	3.69	Mc	—	—
516869 2011 HD_{8}	18.0	X	26.45549	286.80276	202.36774	21.20752	0.3505570	0.28296931	2.30	1.49	3.10	Mc	—	—
517005 2012 TV_{123}	17.5	X	314.65099	342.00988	111.61102	15.43598	0.4250726	0.22012994	2.72	1.56	3.87	Mc	11 21.6	19.0
517035 2012 XS_{119}	18.8	X	155.50389	77.64795	86.61970	14.81794	0.1132245	0.41216744	1.79	1.59	1.99	Mc	9 19.1	21.2
517064 2013 CM_{36}	17.5	X	309.05753	78.34444	28.54246	28.71710	0.4447080	0.21581838	2.75	1.53	3.98	Mc	11 1.4	19.4
517179 2013 RY_{3}	17.2	X	350.10990	307.29872	181.35951	24.14364	0.2816245	0.28146755	2.31	1.66	2.96	Mc	—	—
517362 2014 KC_{4}	17.4	X	224.11736	97.40108	199.65470	27.67462	0.3735387	0.23659136	2.59	1.62	3.56	Mc	1 14.9	23.0
517532 2014 SW	16.3	X	190.01464	255.65526	60.63014	30.95970	0.4051844	0.21157554	2.79	1.66	3.92	Mc	1 30.6	22.2
517542 2014 SY_{223}	18.8	X	53.37276	100.54562	194.16739	16.50979	0.2059334	0.43524308	1.72	1.37	2.08	Mc	12 5.6	21.1
517594 2014 WX_{199}	14.4	X	335.69070	311.61606	30.21400	17.16994	0.1083802	0.09619913	4.72	4.21	5.23	Jc	8 16.2	20.6
517714 2015 JF_{3}	17.5	X	283.83286	98.67708	187.22586	20.62967	0.3164400	0.28741407	2.27	1.55	2.99	Mc	2 7.3	21.6
517726 2015 LZ_{22}	18.3	X	301.89880	196.26117	94.23692	3.48002	0.2926171	0.30703764	2.18	1.54	2.81	Mc	3 6.6	21.4
517735 2015 MN_{54}	18.3	X	261.82973	205.15174	95.17274	4.63360	0.2757598	0.28768996	2.27	1.65	2.90	Mc	2 15.5	22.1
517739 2015 MS_{101}	17.9	X	239.37762	278.62187	37.07101	2.41749	0.3029104	0.27480926	2.34	1.63	3.05	Mc	2 17.5	22.0
518422 1998 WH_{30}	17.5	X	327.54094	87.37804	235.68969	24.83399	0.4105287	0.29550468	2.23	1.32	3.15	Mc	5 5.9	19.7
518434 2003 PB_{8}	17.1	X	206.86246	226.96403	142.70336	9.45080	0.3290728	0.25638718	2.45	1.65	3.26	Mc	4 3.8	21.8
518441 2004 FC_{6}	17.8	X	347.61264	179.52568	16.55177	8.97749	0.3153339	0.28374124	2.29	1.57	3.02	Mc	—	—
518452 2005 ES_{267}	17.4	X	86.05110	312.72162	144.51396	20.05925	0.2350250	0.31127278	2.16	1.65	2.66	Mc	3 17.8	19.4
518482 2005 TZ_{42}	17.6	X	280.96261	172.93194	160.92258	9.14943	0.2973310	0.29439877	2.24	1.57	2.90	Mc	4 13.2	21.0
518509 2006 FZ_{51}	16.9	X	180.72015	322.82383	304.76145	5.05875	0.5031447	0.16452959	3.30	1.64	4.96	Jc	12 31.3	23.5
518528 2006 SE_{285}	16.5	X	186.82782	129.92484	229.27263	27.84762	0.4065080	0.23268087	2.62	1.55	3.68	Mc	3 2.1	22.2
518542 2006 VA_{76}	18.5	X	260.29385	102.72206	252.52255	0.88365	0.2364213	0.31208827	2.15	1.64	2.66	Mc	4 23.6	21.8
518568 2007 HO_{67}	18.1	X	276.62618	104.99527	196.31659	13.25523	0.3561558	0.27201338	2.36	1.52	3.20	Mc	2 19.4	22.4
518635 2008 HO_{3}	18.1	X	202.98542	128.89034	206.06788	14.07004	0.6505747	0.19773039	2.92	1.02	4.82	Ja	2 19.2	24.8
518645 2008 PL_{12}	18.8	X	279.65060	186.52729	125.79661	0.72311	0.2841227	0.28757701	2.27	1.63	2.92	Mc	3 15.1	22.4
518717 2009 DH_{32}	17.4	X	296.44136	131.98564	8.71661	3.01880	0.4354055	0.22324908	2.69	1.52	3.86	Mc	11 29.9	19.3
519198 2010 PZ_{77}	17.0	X	208.11359	102.83493	229.85152	25.56166	0.3719827	0.22881455	2.65	1.66	3.63	Mc	2 10.9	22.7
519610 2012 UN_{68}	18.2	X	300.88399	36.29314	270.59757	2.34847	0.3720153	0.30474186	2.19	1.37	3.00	Mc	3 14.8	21.6
519783 2013 FP_{21}	16.9	X	210.79606	94.09121	191.37893	16.85695	0.4546121	0.20222148	2.87	1.57	4.18	Mc	1 1.8	23.0
520399 2014 JQ_{54}	18.2	X	272.07039	84.53378	169.54263	7.62085	0.4239227	0.24005897	2.56	1.48	3.65	Mc	—	—
521938 2015 VT_{1}	17.9	X	265.98671	181.09584	144.79178	9.48174	0.3077068	0.27777444	2.33	1.61	3.04	Mc	3 21.6	21.8
523581 2018 FL_{5}	17.1	X	255.51259	101.27435	163.98114	27.72341	0.4079656	0.23610981	2.59	1.53	3.65	Mc	1 1.4	22.6
523589 2001 HA_{4}	17.7	X	226.71877	95.64832	354.07068	17.17924	0.7935297	0.22373489	2.69	0.55	4.82	Ja	7 2.8	24.3
523592 2001 SK_{276}	17.5	X	159.29972	119.40677	297.68763	20.74373	0.5932240	0.17312969	3.19	1.30	5.08	Jc	5 1.9	24.5
523612 2006 BH	18.2	X	221.54508	249.19618	306.09913	31.08023	0.6445850	0.16914268	3.24	1.15	5.33	Jc	10 11.0	25.4
523630 2009 OG	16.2	X	231.85987	114.15867	309.40151	48.38798	0.8584613	0.22165860	2.70	0.38	5.03	Jc	6 7.9	23.3
523649 2010 XZ_{78}	13.2	X	158.13785	228.40883	252.31063	39.17950	0.2922459	0.04649790	7.66	5.42	9.90	Jc	7 1.7	23.2
523806 2002 WW_{17}	17.4	X	165.72799	91.50787	71.20142	18.30450	0.6519427	0.18656940	3.03	1.06	5.01	Jc	9 13.5	24.4
523822 2012 DG_{61}	18.2	X	190.39158	186.17582	69.99906	15.32314	0.7375380	0.16795028	3.25	0.85	5.65	Jc	12 16.2	25.3
523915 1997 VM_{4}	18.2	X	183.00368	124.90345	45.41347	14.21245	0.8137835	0.23242316	2.62	0.49	4.75	Ja	9 22.9	24.7
524093 2000 PF_{4}	17.8	X	234.30346	31.71223	313.14871	6.94099	0.4277007	0.22067094	2.71	1.55	3.87	Mc	3 16.7	23.3
524095 2000 QP_{30}	17.9	X	277.16902	21.97615	316.07030	5.93148	0.4033709	0.27211661	2.36	1.41	3.31	Mc	4 1.6	22.1
524098 2000 QV_{38}	17.9	X	187.16977	195.17428	155.73562	5.28406	0.2544838	0.30965899	2.16	1.61	2.71	Mc	2 17.3	21.3
524114 2000 SB_{1}	15.1	X	133.43930	145.04554	276.99601	22.18086	0.5407820	0.16148359	3.34	1.53	5.15	Jc	4 26.1	21.8
524115 2000 SY_{9}	17.8	X	243.44630	213.12727	204.12531	22.54827	0.3269630	0.27279891	2.35	1.58	3.12	Mc	6 20.8	22.3
524120 2000 SR_{94}	17.9	X	272.62316	47.63752	335.19976	7.17407	0.2904042	0.27483255	2.34	1.66	3.02	Mc	6 7.5	21.4
524136 2000 SD_{372}	18.1	X	287.62156	101.07565	276.80495	8.30391	0.2949649	0.27607949	2.34	1.65	3.02	Mc	6 18.5	20.9
524185 2001 KF_{18}	17.4	X	276.29415	91.35379	192.45966	27.47521	0.3800170	0.23582973	2.59	1.61	3.58	Mc	1 30.6	22.6
524187 2001 OJ_{78}	18.3	X	316.13933	302.37793	36.26169	3.84235	0.2624058	0.29276690	2.25	1.66	2.84	Mc	6 9.9	20.2
524198 2001 QC_{333}	18.3	X	315.50882	290.57154	27.56244	4.44976	0.2638831	0.29103509	2.26	1.66	2.85	Mc	5 6.3	20.3
524201 2001 RH_{33}	18.5	X	321.53789	79.72865	274.67500	3.28975	0.2960778	0.29425206	2.24	1.58	2.90	Mc	7 13.7	19.8
524203 2001 RA_{42}	17.8	X	189.16663	73.55297	351.10519	21.37348	0.5192462	0.17891669	3.12	1.50	4.74	Mc	5 20.2	24.5
524204 2001 RD_{47}	17.3	X	230.32654	75.72212	350.49081	27.90825	0.3820093	0.23653957	2.59	1.60	3.58	Mc	6 23.1	22.7
524207 2001 RP_{82}	17.7	X	259.92308	198.35080	198.90661	7.37371	0.3959873	0.23778849	2.58	1.56	3.60	Mc	6 5.9	22.2
524238 2001 SQ_{217}	16.7	X	207.66311	81.37459	12.34166	26.82880	0.4450914	0.23332243	2.61	1.45	3.78	Mc	7 14.4	22.4
524339 2001 XN_{1}	16.9	X	238.70205	78.97840	345.70085	27.48115	0.3881349	0.23262578	2.62	1.60	3.63	Mc	6 28.9	22.2
524369 2001 YB_{4}	17.2	X	201.72153	79.50098	84.79596	28.63002	0.3875894	0.23456841	2.60	1.59	3.61	Mc	10 14.2	22.7
524395 2002 AW_{17}	16.4	X	237.42515	240.91819	145.22292	22.87725	0.3751006	0.28007088	2.31	1.45	3.18	Mc	5 14.2	21.2
524421 2002 CN_{12}	17.0	X	242.48680	99.54302	12.96659	29.77906	0.4251592	0.23408069	2.60	1.50	3.71	Mc	9 5.6	21.9
524443 2002 DA_{4}	17.4	X	237.13683	76.45563	27.23131	26.86626	0.4338360	0.23334804	2.61	1.48	3.75	Mc	8 21.1	22.7
524477 2002 LV_{6}	18.1	X	342.67395	40.07493	241.68391	9.09767	0.3738909	0.30881835	2.17	1.36	2.98	Mc	3 31.9	19.9
524481 2002 PZ_{10}	16.6	X	169.89293	88.38354	303.47764	16.43078	0.4719438	0.18684178	3.03	1.60	4.46	Mc	4 2.9	23.0
524508 2002 TR_{96}	16.1	X	73.97007	314.67377	9.42820	19.56831	0.4733275	0.16708848	3.26	1.72	4.81	Ja	—	—
524516 2002 UN	17.1	X	201.27054	39.84294	33.55458	26.18717	0.6100899	0.18941200	3.00	1.17	4.83	Ja	6 3.2	23.9
524593 2003 NZ	18.4	X	315.14772	221.62467	87.34097	7.44446	0.3829580	0.26784384	2.38	1.47	3.30	Mc	4 9.4	21.5
524598 2003 PJ	18.0	X	303.18672	88.07572	227.56345	4.76629	0.3244905	0.26631935	2.39	1.62	3.17	Mc	4 7.7	21.2
524604 2003 QZ_{46}	17.9	X	338.41831	54.40450	296.46885	4.04864	0.2970824	0.27408370	2.35	1.65	3.04	Mc	9 1.5	18.7
524606 2003 QT_{79}	18.0	X	269.50613	293.70089	79.46917	6.33801	0.4197919	0.26501003	2.40	1.39	3.41	Mc	5 12.1	22.2
524607 2003 QB_{89}	18.8	X	174.85769	148.18115	156.67646	3.56115	0.2766740	0.30020246	2.21	1.60	2.82	Mc	—	—
524635 2003 SS_{130}	17.5	X	336.69200	348.87791	355.84048	8.22831	0.3137486	0.27184568	2.36	1.62	3.10	Mc	8 15.8	18.2
524639 2003 SA_{169}	17.7	X	241.76981	284.75274	116.51747	6.36836	0.3418221	0.26239341	2.42	1.59	3.24	Mc	6 1.5	22.0
524644 2003 SC_{220}	19.9	X	194.39280	139.16383	199.22194	33.22419	0.1241457	0.52552307	1.52	1.33	1.71	Mc	—	—
524678 2003 TA	17.6	X	132.75566	94.49622	205.78697	27.38621	0.3755861	0.23353815	2.61	1.63	3.59	Mc	—	—
524702 2003 UT_{19}	17.4	X	255.65635	312.53313	99.53043	24.42249	0.3347757	0.26359520	2.41	1.60	3.22	Mc	6 26.3	21.2
524743 2003 UR_{267}	16.9	X	137.87497	43.84143	31.99969	6.14010	0.5266882	0.13336076	3.79	1.80	5.79	Jc	5 17.7	24.0

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
524801 2003 WN_{156}	17.8	X	179.72416	332.96563	156.00083	9.93003	0.4789115	0.19684043	2.93	1.53	4.33	Mc	8 2.7	23.9
524810 2003 WU_{194}	18.4	X	144.27708	308.94240	5.77111	5.81013	0.2571732	0.29530360	2.23	1.66	2.81	Mc	—	—
524818 2003 YK_{3}	17.1	X	317.45469	86.55619	312.37505	20.75623	0.3035586	0.26897081	2.38	1.66	3.10	Mc	9 7.1	19.0
524819 2003 YM_{8}	17.1	X	198.32903	59.09155	89.96836	25.23258	0.3182313	0.26061187	2.43	1.65	3.20	Mc	9 25.1	22.0
524900 2004 FB_{32}	17.2	X	172.74779	137.74473	86.39065	14.46564	0.4930951	0.20295869	2.87	1.45	4.28	Mc	11 17.4	23.2
524943 2004 HY_{26}	18.5	X	175.85329	238.73477	45.16215	11.70923	0.4532093	0.26159519	2.42	1.32	3.52	Mc	—	—
524968 2004 NZ_{19}	18.3	X	292.16810	165.72310	167.23413	4.32331	0.2998641	0.28255373	2.30	1.61	2.99	Mc	4 22.9	21.5
524990 2004 PP_{111}	18.2	X	302.30463	342.63971	358.22057	5.81378	0.3014155	0.28342252	2.30	1.60	2.99	Mc	5 12.6	21.1
525009 2004 RK_{112}	17.0	X	231.37840	102.31129	329.95346	20.71971	0.3422739	0.27722224	2.33	1.53	3.13	Mc	7 5.9	21.4
525033 2004 RN_{193}	18.0	X	194.14215	98.94667	207.86095	13.89312	0.4510308	0.26272058	2.41	1.33	3.50	Mc	1 11.1	23.1
525095 2004 TX_{10}	17.9	X	279.18053	193.33671	218.75894	27.99263	0.2853375	0.28526970	2.29	1.63	2.94	Mc	7 18.6	21.6
525098 2004 TJ_{19}	17.2	X	263.96431	184.04296	132.43207	13.96594	0.4769922	0.21485141	2.76	1.44	4.08	Mc	3 3.6	22.6
525217 2004 TK_{345}	17.8	X	340.40838	357.92121	70.31819	28.05378	0.3973891	0.29455766	2.24	1.35	3.13	Mc	—	—
525338 2005 AU_{28}	17.6	X	249.28313	102.97653	351.94926	22.03510	0.3445527	0.27770954	2.33	1.53	3.13	Mc	8 21.5	21.4
525395 2005 EU_{78}	18.3	X	202.22937	228.49112	10.95295	5.71859	0.2816317	0.28248462	2.30	1.65	2.95	Mc	—	—
525399 2005 ET_{87}	17.6	X	253.96662	83.35772	359.46756	21.20266	0.3573812	0.27444754	2.35	1.51	3.18	Mc	8 10.4	21.6
525421 2005 ED_{169}	18.9	X	214.97580	177.52298	180.28427	22.12952	0.1085971	0.42908214	1.74	1.55	1.93	Mc	3 1.8	20.9
525422 2005 EQ_{169}	17.1	X	171.49018	93.60353	136.68793	23.61260	0.2967234	0.27486021	2.34	1.65	3.04	Mc	12 6.6	21.7
525500 2005 GL_{63}	18.2	X	204.61157	180.99311	48.70607	10.73876	0.2992221	0.28148337	2.31	1.62	3.00	Mc	12 26.5	21.9
525511 2005 GY_{119}	17.8	X	234.13078	256.05320	213.02259	20.74932	0.3121736	0.27068725	2.37	1.63	3.11	Mc	8 15.1	22.1
525783 2005 SU_{164}	17.6	X	350.74154	289.08781	56.15388	8.87747	0.2784187	0.30725620	2.18	1.57	2.78	Mc	10 24.8	18.3
525824 2005 TH_{7}	17.1	X	251.54416	336.88812	353.18270	17.18176	0.3775971	0.22755969	2.66	1.65	3.66	Mc	3 13.8	22.1
525933 2005 UE_{90}	16.9	X	194.16695	292.23765	231.23436	22.87893	0.4123041	0.23597678	2.59	1.52	3.66	Mc	9 14.9	22.4
526111 2005 UJ_{456}	18.0	X	334.49660	46.14712	278.79808	4.10072	0.3054409	0.30255386	2.20	1.53	2.87	Mc	6 22.6	18.8
526174 2005 WZ_{30}	18.6	X	300.77489	105.66112	265.92730	4.41649	0.2907089	0.29964183	2.21	1.57	2.85	Mc	6 29.0	20.6
526181 2005 WM_{52}	16.5	X	181.73706	26.29653	75.66090	36.98915	0.3817171	0.22506463	2.68	1.65	3.70	Mc	6 30.4	22.0
526255 2005 YP_{128}	16.6	X	196.91552	272.19431	251.14592	26.57024	0.3777333	0.23480485	2.60	1.62	3.59	Mc	9 13.3	22.1
526336 2006 CP	17.8	X	259.57620	3.14510	132.97037	26.13447	0.3343676	0.30285081	2.20	1.46	2.93	Mc	11 4.4	21.0
526401 2006 HR_{52}	18.0	X	162.14825	155.20839	81.11692	8.95122	0.2903401	0.29126004	2.25	1.60	2.91	Mc	12 4.3	21.8
526565 2006 SF_{400}	19.7	X	240.21710	64.85838	9.47181	2.65447	0.4132619	0.24933234	2.50	1.47	3.53	Mc	7 5.9	24.2
526708 2006 VJ_{77}	17.8	X	165.16754	264.61818	59.05198	23.62436	0.3837415	0.29125989	2.25	1.39	3.12	Mc	1 10.2	22.0
526774 2006 XT_{3}	18.4	X	107.20187	134.15401	279.71113	19.38251	0.1097014	0.42140053	1.76	1.57	1.96	Mc	—	—
526788 2006 YZ_{1}	17.1	X	204.80973	113.37980	290.70518	28.24181	0.3978185	0.23579471	2.59	1.56	3.63	Mc	5 4.3	22.8
526802 2007 BC	16.6	X	144.64133	93.25717	63.27288	28.31583	0.3765003	0.23169117	2.63	1.64	3.61	Mc	8 30.2	22.2
526937 2007 OR	17.9	X	218.81063	291.46164	321.56379	26.05222	0.3151372	0.31735235	2.13	1.46	2.80	Mc	—	—
526940 2007 PR	16.6	X	209.66265	50.28891	317.95835	12.74685	0.5346919	0.18667331	3.03	1.41	4.65	Mc	3 27.8	23.1
526947 2007 PH_{49}	17.7	X	152.24978	120.95122	150.46908	29.52115	0.3752125	0.23806130	2.58	1.61	3.55	Mc	—	—
526964 2007 RE_{33}	17.1	X	261.44527	167.55030	228.06432	8.53825	0.2990861	0.27066183	2.37	1.66	3.07	Mc	6 13.1	20.9
527141 2007 TV_{62}	18.0	X	163.41534	294.14121	18.21270	4.95588	0.2640107	0.31036406	2.16	1.59	2.73	Mc	—	—
527188 2007 TD_{140}	16.8	X	141.87625	82.32974	229.62523	27.16272	0.3796950	0.23496982	2.60	1.61	3.59	Mc	—	—
527305 2007 TG_{385}	18.0	X	30.28932	300.93655	25.80684	7.77157	0.2650770	0.28906583	2.27	1.66	2.87	Mc	12 2.3	20.7
527311 2007 TA_{394}	18.4	X	160.00055	88.40688	224.93543	3.43522	0.2269728	0.31222847	2.15	1.66	2.64	Mc	—	—
527601 2007 VY_{297}	18.2	X	317.68524	235.51352	142.03906	8.37657	0.2865549	0.27747680	2.33	1.66	3.00	Mc	8 17.1	19.3
527604 2007 VL_{305}	8.1	X	20.79920	214.86441	188.51628	28.09542	0.0640543	0.00599039	30.03	28.10	31.95	NT	12 1.1	22.7
527714 2007 YG_{55}	19.2	X	351.99838	46.50911	108.06246	22.98409	0.1549136	0.44264536	1.71	1.44	1.97	Mc	—	—
528184 2008 HD_{58}	18.7	X	197.57698	40.69112	212.41828	6.21077	0.3098827	0.27003499	2.37	1.64	3.11	Mc	—	—
528201 2008 JB_{31}	17.5	X	205.68350	189.48277	20.49584	15.17675	0.3519431	0.26875934	2.38	1.54	3.22	Mc	11 23.9	21.8
528205 2008 JS_{36}	18.6	X	10.63374	79.16195	207.22127	3.44061	0.2696377	0.30818549	2.17	1.59	2.76	Mc	8 23.1	19.5
528231 2008 OL_{22}	17.8	X	302.09675	32.86204	288.68642	7.32260	0.3545884	0.29153949	2.25	1.45	3.05	Mc	4 4.8	21.2
528235 2008 QA_{21}	18.0	X	357.81530	47.92691	280.17593	5.74835	0.2463748	0.30530920	2.18	1.65	2.72	Mc	9 28.2	19.2
528351 2008 SX_{235}	18.3	X	14.94525	135.87148	227.51247	3.72432	0.2343786	0.30720811	2.18	1.67	2.69	Mc	—	—
528436 2008 TQ_{116}	18.2	X	346.10621	13.95262	322.56229	7.15828	0.2578435	0.30091889	2.21	1.64	2.77	Mc	9 7.5	18.8
528476 2008 UD_{4}	18.3	X	1.60221	305.09619	54.75710	7.45631	0.2661271	0.30751616	2.17	1.60	2.75	Mc	12 10.3	20.0
528497 2008 UE_{72}	18.6	X	191.73673	101.04505	3.47521	6.01281	0.4482332	0.20049904	2.89	1.60	4.19	Mc	7 13.8	24.5
528569 2008 UY_{274}	18.7	X	339.06568	322.52702	27.59403	0.47806	0.2489186	0.29886227	2.22	1.66	2.77	Mc	9 13.2	19.0
528736 2008 YS_{126}	17.2	X	213.43080	283.33424	294.94808	23.26228	0.2686719	0.29968262	2.21	1.62	2.81	Mc	12 29.8	20.4
528792 2009 BO_{37}	17.4	X	303.50162	74.48359	314.63381	22.53149	0.3287480	0.29016521	2.26	1.52	3.00	Mc	7 28.2	19.3
528808 2009 BW_{71}	17.9	X	335.62800	255.52984	149.58955	24.95132	0.3648767	0.29975845	2.21	1.40	3.02	Mc	—	—
528858 2009 CB_{2}	19.1	X	292.76461	81.37970	138.97291	40.44591	0.1642636	0.39663410	1.83	1.53	2.14	Mc	—	—
528972 2009 HM_{15}	14.8	X	72.60685	169.55181	24.14658	14.19148	0.2510235	0.09671231	4.70	3.52	5.88	Jc	7 23.2	21.3
528991 2009 HE_{82}	18.7	X	179.51716	144.17037	227.24422	30.50145	0.1032197	0.55468550	1.47	1.32	1.62	Mc	—	—
529015 2009 KA_{9}	18.8	X	195.20578	29.61111	223.59261	5.21437	0.2757433	0.28984109	2.26	1.64	2.88	Mc	—	—
529030 2009 ME_{8}	17.7	X	157.51467	163.60701	128.35134	6.38895	0.2856851	0.28491924	2.29	1.63	2.94	Mc	—	—
529050 2009 PY_{2}	17.1	X	257.70834	243.86448	99.33962	29.32369	0.4684387	0.22524046	2.68	1.42	3.93	Mc	4 11.5	22.8
529189 2009 SA_{209}	17.5	X	229.94180	278.19054	196.00907	27.37297	0.3691852	0.23329689	2.61	1.65	3.58	Mc	8 14.0	22.6
529262 2009 UG_{25}	18.0	X	155.78221	110.22038	209.69845	4.40071	0.3067838	0.27774666	2.33	1.61	3.04	Mc	—	—
529382 2009 WL_{69}	17.3	X	278.97492	249.97583	128.10123	6.88412	0.3908834	0.23103553	2.63	1.60	3.66	Mc	5 30.2	21.5
529388 2009 WN_{78}	18.5	X	222.04390	93.44334	274.58762	4.33574	0.4622342	0.21785048	2.74	1.47	4.00	Mc	4 5.5	24.2
529456 2010 AN_{39}	15.5	X	88.06426	141.12651	285.77585	5.97046	0.3867286	0.10292289	4.51	2.77	6.25	Jc	3 26.3	22.1
529465 2010 AZ_{60}	16.0	X	110.87639	259.71533	156.15695	12.50026	0.5037138	0.10830523	4.36	2.16	6.55	Jc	4 15.9	23.3
529494 2010 BX_{31}	18.4	X	216.57183	64.03600	305.38191	10.53800	0.4274574	0.21907834	2.73	1.56	3.89	Mc	4 1.7	24.1
529825 2010 QE_{4}	17.8	X	299.15476	215.65741	174.54759	10.27371	0.3121042	0.26376290	2.41	1.66	3.16	Mc	7 19.0	20.5
529841 2010 RL_{79}	18.0	X	151.97365	13.75014	288.69447	7.37035	0.2506463	0.30411893	2.19	1.64	2.74	Mc	—	—
529879 2010 SN_{10}	18.2	X	143.33557	30.61539	301.99363	5.01730	0.2912565	0.30627894	2.18	1.54	2.81	Mc	—	—
529933 2010 TO_{174}	17.2	X	0.73792	216.08248	116.60399	7.47264	0.3408508	0.26797162	2.38	1.57	3.19	Mc	11 1.4	18.7
529935 2010 TE_{176}	19.6	X	252.45949	148.49302	222.72502	5.97994	0.3873566	0.24757442	2.51	1.54	3.48	Mc	4 29.7	24.1
529970 2010 UD_{96}	17.6	X	240.97371	145.17132	207.38322	17.56923	0.3558897	0.23937046	2.57	1.65	3.48	Mc	3 31.9	22.5
530028 2010 VR_{145}	18.4	X	168.46538	212.75192	121.77814	4.51758	0.3206700	0.31173316	2.15	1.46	2.84	Mc	1 17.7	21.7
530099 2010 XJ_{51}	17.7	X	209.15895	98.96678	307.83917	25.98411	0.4610985	0.23607176	2.59	1.40	3.79	Mc	5 7.6	23.5
530101 2010 XD_{52}	17.5	X	248.65109	124.76146	238.31745	15.82612	0.3515721	0.24094282	2.56	1.66	3.46	Mc	4 17.6	22.2

ELEMENTS AND OPPOSITION DATES OF SOME UNUSUAL MINOR PLANETS

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
530121 2011 AV_2	18.1	X	232.98423	60.34022	317.29520	5.25533	0.3580383	0.23698958	2.59	1.66	3.51	Mc	4 24.6	23.1
530336 2011 EZ_9	16.9	X	207.07358	294.12170	177.52324	29.22768	0.3780002	0.23537194	2.60	1.62	3.58	Mc	7 29.1	22.3
530351 2011 EE_{45}	16.9	X	194.61870	97.26795	44.46281	24.62490	0.3598525	0.23857166	2.57	1.65	3.50	Mc	9 12.8	22.2
530484 2011 JG_8	18.8	X	193.06956	256.18168	54.28264	34.46630	0.0542962	0.46142866	1.66	1.57	1.75	Mc	—	—
530509 2011 KO_4	17.1	X	191.89013	105.73491	56.50814	28.80918	0.3753279	0.23590625	2.59	1.62	3.57	Mc	10 6.9	22.5
530535 2011 OR_{18}	18.1	X	332.27149	110.89766	219.00122	9.02564	0.2814328	0.29046244	2.26	1.62	2.89	Mc	6 29.7	19.5
530540 2011 OY_{39}	18.2	X	319.41595	191.70394	157.13639	5.24975	0.2843941	0.29001907	2.26	1.62	2.90	Mc	6 30.4	19.9
530554 2011 QS_{11}	16.9	X	310.78109	94.52027	221.74162	23.22843	0.3114575	0.28393659	2.29	1.58	3.01	Mc	4 18.1	19.7
530558 2011 QF_{21}	18.0	X	310.48812	343.04994	17.50481	7.21341	0.3058010	0.28953551	2.26	1.57	2.95	Mc	6 26.7	20.1
530573 2011 QG_{95}	18.1	X	34.40507	40.83889	312.04323	5.82007	0.2429732	0.31100802	2.16	1.63	2.68	Mc	—	—
530664 2011 SO_{277}	7.6	X	146.37889	136.24568	113.39566	9.64210	0.0099390	0.00592153	30.26	29.96	30.56	NT	11 3.2	22.4
530682 2011 UN_3	18.1	X	310.71018	121.03856	208.93854	24.03250	0.2879776	0.28054019	2.31	1.65	2.98	Mc	5 14.6	20.8
530706 2011 UV_{62}	17.7	X	256.81133	127.64912	259.61936	22.59036	0.3462315	0.27443540	2.35	1.53	3.16	Mc	5 24.7	21.8
530723 2011 UY_{89}	18.2	X	30.95580	356.11228	51.00570	21.06096	0.0760395	0.41488024	1.78	1.65	1.92	Mc	—	—
530747 2011 UO_{138}	18.2	X	276.91239	39.30396	323.45617	4.03689	0.3079042	0.27678747	2.33	1.61	3.05	Mc	5 13.2	21.8
530766 2011 UG_{188}	18.2	X	342.25772	331.12603	355.92803	4.13969	0.2776946	0.29122841	2.25	1.63	2.88	Mc	8 3.9	18.9
530863 2011 VT_{10}	17.5	X	213.87421	44.35222	63.85793	24.72120	0.3053058	0.27203704	2.36	1.64	3.08	Mc	8 12.9	22.1
530930 2011 WG_{157}	7.2	X	215.19964	219.17109	352.01028	22.28254	0.0265127	0.00598971	30.03	29.23	30.82	NT	11 21.7	22.1
530980 2012 BW_{23}	17.5	X	311.42379	88.73430	340.07830	25.31865	0.2812029	0.28714453	2.28	1.64	2.92	Mc	10 17.2	19.5
530990 2012 BW_{85}	17.7	X	216.17950	329.66416	235.85293	4.46013	0.3572630	0.27763820	2.33	1.50	3.16	Mc	12 1.2	21.6
530991 2012 BD_{86}	19.3	X	38.65320	54.81681	307.75775	11.59582	0.2035070	0.39823302	1.83	1.46	2.20	Mc	—	—
531071 2012 DD_{90}	18.6	X	209.54023	111.23456	110.13826	4.89721	0.3471191	0.28177289	2.30	1.50	3.10	Mc	12 16.5	22.3
531105 2012 EC_{15}	18.4	X	206.48415	291.78037	302.35729	3.72498	0.3257516	0.27900243	2.32	1.56	3.08	Mc	12 31.0	22.2
531126 2012 FG_{38}	16.9	X	290.64360	58.93536	35.48492	24.69429	0.3186862	0.27647135	2.33	1.59	3.08	Mc	10 19.4	18.7
531150 2012 GF	19.0	X	6.06527	323.99620	138.23309	16.35983	0.2158600	0.40952224	1.80	1.41	2.18	Mc	—	—
531178 2012 GD_{40}	18.2	X	213.73230	113.66063	129.92969	22.12889	0.2908798	0.28371952	2.29	1.63	2.96	Mc	—	—
531221 2012 HL_{82}	17.9	X	173.31771	250.96044	55.17439	23.00077	0.3319519	0.28110222	2.31	1.54	3.07	Mc	—	—
531357 2012 RE_{20}	18.6	X	28.94886	230.21118	180.52705	10.27683	0.2191731	0.35811136	1.96	1.53	2.39	Mc	—	—
531471 2012 TY_{78}	18.5	X	338.16863	71.32539	230.32155	4.47411	0.3888173	0.31404636	2.14	1.31	2.98	Mc	4 24.6	19.9
531895 2013 BP_7	17.4	X	294.19443	75.74989	127.91555	30.95278	0.2775324	0.34246354	2.02	1.46	2.58	Mc	—	—
532057 2013 GR_{68}	18.2	X	210.32418	202.43569	43.99509	6.21776	0.3068745	0.31565471	2.14	1.48	2.79	Mc	—	—
532112 2013 LW_1	18.3	X	346.23888	337.87264	260.11202	16.39925	0.1933155	0.48052028	1.61	1.30	1.93	Mc	1 19.6	19.7
532233 2013 PT_{69}	19.3	X	217.79118	159.65764	133.39026	5.70458	0.3448842	0.32032032	2.12	1.39	2.85	Mc	1 2.4	23.2
532281 2013 QD_{28}	18.3	X	168.88703	133.08652	156.73914	8.55255	0.2660130	0.30053316	2.21	1.62	2.79	Mc	—	—
532359 2013 RX_{51}	17.0	X	251.04422	74.85997	9.07634	27.24734	0.4052599	0.22543680	2.67	1.59	3.76	Mc	8 7.4	22.1
532430 2013 SL	18.0	X	182.84915	288.80485	15.48038	23.65813	0.2391930	0.30754337	2.17	1.65	2.69	Mc	—	—
532546 2013 TN_{100}	17.8	X	85.47161	30.90779	317.00395	8.83084	0.2876254	0.27694928	2.33	1.66	3.00	Mc	—	—
532777 2013 WL_{64}	16.7	X	262.65568	83.49402	285.99851	27.00046	0.4304095	0.21419550	2.77	1.58	3.96	Mc	4 25.3	22.3
532841 2013 XS_{12}	18.9	X	337.61639	163.41016	297.38103	9.62760	0.2398837	0.38505274	1.87	1.42	2.32	Mc	—	—
533321 2014 FV_6	18.9	X	327.72870	71.97243	70.33412	10.35336	0.2399687	0.38509096	1.87	1.42	2.32	Mc	—	—
533495 2014 HU_{177}	18.0	X	353.34376	176.67016	135.54856	6.79833	0.2480019	0.29949008	2.21	1.66	2.76	Mc	8 14.9	18.4
533544 2014 JK_{57}	17.8	X	24.62356	209.81826	67.85504	9.61978	0.2973372	0.28700522	2.28	1.60	2.95	Mc	9 25.0	19.9
533609 2014 KS_{38}	18.0	X	313.17916	102.67756	199.07533	21.30474	0.2990123	0.27480929	2.34	1.64	3.04	Mc	4 4.9	21.0
533671 2014 LJ_{21}	16.1	X	170.43857	302.80761	126.65374	24.25278	0.8952275	0.20069076	2.89	0.30	5.48	Jc	6 3.3	23.5
533711 2014 NA_3	18.2	X	343.97010	289.77214	59.25621	9.06338	0.3421040	0.28391588	2.29	1.51	3.08	Mc	10 10.2	18.6
533726 2014 NK_{59}	17.9	X	356.64427	266.48368	105.05087	6.11520	0.2537430	0.29645130	2.23	1.66	2.79	Mc	12 13.9	19.5
533736 2014 OG_3	17.2	X	296.35785	95.79415	285.66654	22.19442	0.2938277	0.27508430	2.34	1.65	3.03	Mc	7 6.8	19.5
533744 2014 OA_{40}	17.8	X	332.49527	40.77655	323.36179	4.91067	0.2820552	0.28623322	2.28	1.64	2.92	Mc	9 11.1	18.5
533849 2014 OH_{338}	17.0	X	225.31270	182.88181	200.46207	7.82251	0.3728685	0.23499079	2.60	1.63	3.57	Mc	4 29.1	21.9
533850 2014 OD_{339}	19.1	X	256.91169	56.98016	339.11668	7.37543	0.4575287	0.25223676	2.48	1.35	3.62	Mc	5 26.1	23.7
533967 2014 QV_{168}	17.6	X	358.35202	213.73487	157.85893	10.64619	0.3949931	0.28935687	2.26	1.37	3.16	Mc	—	—
534181 2014 SW_1	17.7	X	256.00505	298.24777	134.57892	20.30112	0.3515029	0.26790006	2.38	1.55	3.22	Mc	7 21.0	21.6
534245 2014 SK_{219}	17.1	X	282.65385	124.26855	196.89660	17.90346	0.3818608	0.24144044	2.55	1.58	3.53	Mc	3 21.7	21.5
534391 2014 TF_{66}	16.9	X	189.69830	63.28527	28.74849	29.26421	0.4072764	0.23438908	2.61	1.54	3.67	Mc	6 24.7	22.6
534607 2014 UB_{203}	17.2	X	230.92722	18.66663	341.88557	5.24725	0.3691327	0.23450355	2.60	1.64	3.57	Mc	4 3.8	22.3
534674 2014 VX_1	17.3	X	212.79021	106.74272	348.72339	28.85762	0.3793258	0.23663012	2.59	1.61	3.57	Mc	7 27.0	22.6
534678 2014 VW_6	17.3	X	196.07219	82.14108	21.69980	28.22282	0.3722514	0.23426566	2.61	1.64	3.58	Mc	7 24.3	22.9
534685 2014 VY_9	16.7	X	128.51633	283.66943	233.86240	27.06082	0.3629427	0.23465615	2.60	1.66	3.55	Mc	7 28.5	22.0
534750 2014 WD_{24}	17.5	X	239.43052	66.68116	290.26165	4.61957	0.4018565	0.23598047	2.59	1.55	3.64	Mc	4 2.6	22.6
534917 2014 WV_{366}	18.8	X	210.59003	252.64927	207.02202	4.33758	0.4331692	0.23849709	2.58	1.46	3.69	Mc	7 16.4	23.9
535149 2014 XJ_8	17.9	X	228.29116	146.88262	32.24444	6.56943	0.3708233	0.27561230	2.34	1.47	3.21	Mc	11 6.7	21.6
535203 2014 YJ_{15}	16.0	X	250.97784	132.51549	243.46159	28.98389	0.3571179	0.23807422	2.58	1.66	3.50	Mc	5 6.4	20.7
537562 2015 OX_{77}	17.8	X	322.10593	71.56772	278.30837	16.70762	0.2923666	0.32049868	2.11	1.50	2.73	Mc	7 6.9	18.5
537698 2015 TW	19.1	X	234.97145	157.12543	138.11369	15.52341	0.1041552	0.42192919	1.76	1.58	1.94	Mc	—	—
537702 2015 TE_{21}	18.1	X	354.06453	185.05695	123.28374	7.93011	0.3678697	0.32029061	2.12	1.34	2.89	Mc	9 1.6	17.3
537703 2015 TH_{21}	18.0	X	340.67909	291.81234	32.04133	29.34088	0.3289768	0.31592644	2.14	1.43	2.84	Mc	8 20.4	19.9
537721 2015 TO_{234}	18.1	X	316.37436	18.30331	324.94134	7.12018	0.2894172	0.31274914	2.15	1.53	2.77	Mc	6 11.4	19.9
537725 2015 TX_{243}	18.6	X	309.91931	87.69380	265.34982	4.87956	0.2460110	0.30957271	2.16	1.63	2.70	Mc	6 24.7	20.5
537733 2015 TX_{305}	18.7	X	315.69476	125.35569	219.08560	6.56140	0.2963654	0.31010963	2.16	1.52	2.80	Mc	6 11.4	20.4
537796 2015 WK_2	19.4	X	31.68421	0.28513	88.55406	5.02135	0.2721359	0.37309430	1.91	1.39	2.43	Mc	—	—
537950 2016 AO_{181}	17.7	X	278.92380	180.21349	207.29816	5.74410	0.3008395	0.27759449	2.33	1.63	3.03	Mc	6 20.2	20.9
538652 2016 FW_7	18.9	X	190.75321	132.07701	105.99926	2.97044	0.2916147	0.30119708	2.20	1.56	2.85	Mc	12 28.8	22.4
538657 2016 FG_{12}	19.2	X	235.37235	247.19078	2.50860	3.44048	0.3774540	0.32243901	2.11	1.31	2.90	Mc	—	—
538964 2016 JV_{29}	17.4	X	213.95533	292.69724	235.12859	22.15504	0.2744073	0.28766543	2.27	1.65	2.90	Mc	10 19.8	21.3
538967 2016 JP_{35}	18.1	X	175.12639	199.45687	63.63354	7.94745	0.2756422	0.29383427	2.24	1.62	2.86	Mc	—	—
539062 2016 MQ	18.1	X	139.35811	205.78319	124.52489	2.10003	0.3726015	0.27478817	2.34	1.47	3.22	Mc	—	—
539085 2016 NC_{21}	18.1	X	168.37462	182.50735	105.90535	7.01696	0.2986453	0.28695478	2.28	1.60	2.96	Mc	—	—
539090 2016 NA_{33}	18.0	X	165.43515	221.68526	98.54910	8.95258	0.2777678	0.29168446	2.25	1.63	2.88	Mc	—	—
539653 2016 TT_2	17.2	X	108.75782	100.58697	190.97136	27.97606	0.3618741	0.23496563	2.60	1.66	3.54	Mc	12 26.4	22.7
539918 2017 FC_{128}	17.6	X	25.54440	17.50944	282.17239	5.16904	0.2208985	0.31654694	2.13	1.66	2.60	Mc	10 12.1	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
539946 2017 HB_5	18.8	X	80.21847	304.71694	182.73647	22.95609	0.0649470	0.46088355	1.66	1.55	1.77	Mc	2 7.7	20.0
540205 2017 RS_{17}	14.5	X	73.87809	295.91827	135.85650	42.69485	0.4478814	0.06421034	6.18	3.41	8.94	Jc	4 9.3	22.7
540599 2017 UY_6	16.7	X	254.17522	282.59748	177.23915	29.84414	0.4007272	0.21624464	2.75	1.65	3.85	Mc	8 14.0	21.6
541067 2018 LX_4	18.7	X	275.19737	324.38162	2.46741	14.15074	0.3596508	0.26140970	2.42	1.55	3.29	Mc	3 24.5	22.9
541071 2018 NB_{15}	18.4	X	325.29740	262.17940	54.78246	7.25490	0.2988685	0.30267968	2.20	1.54	2.85	Mc	5 15.3	20.2
541073 2018 PK_{23}	16.3	X	224.41933	26.27182	324.54187	11.58838	0.4000370	0.21465211	2.76	1.66	3.87	Mc	3 17.8	21.8
541093 2018 RJ_4	17.5	X	262.80792	226.42704	163.03872	23.64977	0.3353402	0.26350741	2.41	1.60	3.22	Mc	6 6.3	21.9
541193 2011 BA_{84}	18.0	X	293.64084	125.07913	83.09680	4.39062	0.2979203	0.27883847	2.32	1.63	3.01	Mc	—	—
541555 2011 SX_{96}	17.6	X	226.96541	334.41644	8.75649	1.86035	0.3327581	0.26067868	2.43	1.62	3.23	Mc	3 13.3	22.1
541811 2012 AV	18.1	X	104.10178	86.14490	13.12064	27.64642	0.4163349	0.23543718	2.60	1.52	3.68	Mc	5 3.8	22.7
541852 2012 BF_{61}	17.0	X	151.52889	117.80993	300.70245	28.42118	0.3655383	0.24130722	2.56	1.62	3.49	Mc	4 10.8	22.3
541912 2012 DV_3	17.1	X	104.67933	102.70287	10.03495	28.53792	0.3655177	0.23372109	2.61	1.66	3.56	Mc	5 14.6	21.8
541958 2012 FL	17.2	X	99.71185	278.03029	208.07364	27.51924	0.3696874	0.23394084	2.61	1.64	3.57	Mc	6 7.1	21.8
541995 2012 HE_8	19.0	X	173.17887	330.29515	165.02032	2.04430	0.3374506	0.35643241	1.97	1.31	2.63	Mc	8 11.2	22.5
542044 2012 KH_4	18.6	X	212.84006	227.24607	121.15653	7.53880	0.2836401	0.30815020	2.17	1.56	2.79	Mc	3 9.0	22.4
542069 2012 LK_7	18.1	X	241.07901	186.95753	118.07648	8.49258	0.2555420	0.29954624	2.21	1.65	2.78	Mc	2 4.3	21.9
542143 2012 XS_{54}	18.1	X	175.04475	44.31223	302.31833	6.65433	0.4004434	0.27059383	2.37	1.42	3.32	Mc	2 13.6	22.7
542192 2013 AY_{50}	17.7	X	182.41750	290.56957	99.74894	22.48198	0.3209410	0.27478025	2.34	1.59	3.10	Mc	4 20.0	22.5
542627 2013 GK_{37}	17.8	X	137.74913	59.90192	32.20269	22.41675	0.3448974	0.26331096	2.41	1.58	3.24	Mc	5 18.9	22.2
542675 2013 GN_{92}	18.1	X	93.79515	2.44033	197.08885	3.15145	0.3008625	0.26893769	2.38	1.66	3.09	Mc	8 28.7	21.8
543013 2013 RE_1	18.8	X	202.82793	133.14136	175.92590	2.18291	0.2582870	0.31435378	2.14	1.59	2.70	Mc	1 8.8	22.2
543201 2013 TD_{124}	18.6	X	227.04529	350.03711	342.44941	2.27636	0.2164966	0.32383266	2.10	1.65	2.55	Mc	2 24.4	22.0
543244 2013 VC_2	18.4	X	172.71913	252.35311	247.57240	14.55004	0.2178566	0.34579289	2.01	1.57	2.45	Mc	8 11.2	21.9
543248 2013 VG_9	18.1	X	181.10616	208.79347	105.73627	7.59869	0.2479773	0.29913414	2.21	1.67	2.76	Mc	—	—
543508 2014 MG_1	18.2	X	8.74043	44.08167	239.13906	4.82341	0.2697691	0.29155923	2.25	1.64	2.86	Mc	8 6.4	19.1
543523 2014 MD_{27}	18.6	X	337.44750	193.05156	131.15778	26.09186	0.1570927	0.43211163	1.73	1.46	2.00	Mc	8 2.1	18.4
543554 2014 NT_2	16.6	X	187.34947	146.46184	220.28630	33.77272	0.3844213	0.24387610	2.54	1.56	3.51	Mc	3 12.4	22.0
544235 2014 TB_{34}	18.4	X	217.91487	234.01246	245.06665	22.80578	0.1914045	0.41222903	1.79	1.45	2.13	Mc	8 26.7	21.3
544324 2014 UM_{93}	18.6	X	145.71132	324.57351	227.05059	21.02412	0.1079953	0.41022990	1.79	1.60	1.99	Mc	10 4.5	20.9