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Asterank is a scientific and economic database of over 600,000 asteroids.

We've collected, computed, or inferred important data such as asteroid mass and composition from multiple scientific sources. With this information, we estimate the costs and rewards of mining asteroids.

Details on orbits and basic physical parameters are sourced from the Minor Planet Center and NASA JPL. Composition data is based on spectral classification and size. Our calculations incorporate conclusions from multiple scientific publications in addition to cross-referencing known meteorite data.

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Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Ryugu	Cg	1.190	0.190	82.76 billion	30.08 billion	4.663	0.000638	APO (PHA)
1989 ML	X	1.272	0.137	13.94 billion	4.38 billion	4.889	0.082029	AMO
Nereus	Xe	1.489	0.360	4.71 billion	1.39 billion	4.987	0.003153	APO (PHA)
Bennu	B	1.126	0.204	669.96 million	185.00 million	5.096	0.003223	APO (PHA)

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Didymos	Xk	1.644	0.384	62.25 billion	16.41 billion	5.162	0.039777	APO (PHA)
2011 UW158	Xc	1.621	0.376	6.69 billion	1.74 billion	5.189	0.002914	APO (PHA)
Anteros	L	1.430	0.256	5.57 trillion	1.25 trillion	5.440	0.062212	AMO
2001 CC21	L	1.032	0.219	147.04 billion	29.77 billion	5.636	0.083067	APO
1992 TC	X	1.566	0.292	84.01 billion	16.78 billion	5.648	0.167212	AMO
2001 SG10	X	1.449	0.424	3.05 billion	544.48 million	5.880	0.017183	APO (PHA)
2002 DO3	X	1.860	0.499	334.44 million	59.03 million	5.896	0.029415	APO (PHA)
2000 CE59	L	1.137	0.167	10.65 billion	1.80 billion	6.015	0.008298	APO (PHA)
1995 BC2	X	1.917	0.430	78.87 billion	13.22 billion	6.010	0.135685	AMO
1991 DB	C	1.715	0.402	168.20 billion	26.68 billion	6.146	0.102803	AMO
2000 RW37	C	1.248	0.250	29.27 billion	4.53 billion	6.225	0.008221	APO (PHA)
1998 UT18	C	1.404	0.329	644.70 billion	99.62 billion	6.221	0.037188	APO (PHA)
Seleucus	K	2.033	0.456	33.52 trillion	5.02 trillion	6.289	0.102357	AMO
1998 KU2	Cb	2.252	0.553	80.32 trillion	11.95 trillion	6.302	0.060029	APO

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
1989 UQ	B	0.915	0.265	600.73 billion	87.58 billion	6.402	0.013980	ATE (PHA)
1999 KV4	B	1.540	0.371	25.68 trillion	3.73 trillion	6.384	0.172981	APO
1988 XB	B	1.468	0.482	217.07 billion	31.31 billion	6.411	0.006611	APO (PHA)
1997 RT	O	2.247	0.524	174.31 billion	24.24 billion	6.498	0.059847	AMO
1997 XF11	Xk	1.443	0.484	383.99 billion	52.97 billion	6.548	0.000531	APO (PHA)
1996 FG3	C	1.054	0.350	1.33 trillion	181.34 billion	6.607	0.028342	APO (PHA)
1992 QN	X	1.190	0.359	253.70 billion	34.53 billion	6.601	0.132115	APO
2001 TY44	X	2.358	0.522	3.50 billion	473.52 million	6.583	0.148551	AMO
1999 JV6	Xk	1.008	0.311	12.03 billion	1.59 billion	6.700	0.031786	APO (PHA)
2002 EA	L	1.378	0.423	672.12 million	87.43 million	6.747	0.035610	APO
2001 HK31	X	2.437	0.575	1.33 billion	172.64 million	6.725	0.117916	AMO
2005 YU55	C	1.157	0.431	49.84 billion	6.23 billion	6.907	0.000467	APO (PHA)
1992 BF	Xc	0.908	0.272	2.90 billion	357.67 million	6.982	0.062737	ATE
2001 PD1	K	2.234	0.458	646.08 billion	80.77 billion	6.859	0.239755	AMO

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Lucianotesi	Xc	1.325	0.118	53.17 billion	6.49 billion	6.988	0.248206	AMO
2002 CS11	X	2.019	0.404	766.16 million	94.41 million	6.921	0.220314	AMO
1992 NA	C	2.398	0.555	4.55 trillion	547.95 billion	7.005	0.063013	AMO
2002 AV	K	2.470	0.659	17.79 billion	2.14 billion	7.023	0.019524	APO (PHA)
2002 BM26	X	1.833	0.444	77.75 billion	9.25 billion	7.074	0.032462	AMO (PHA)
1999 NC43	Q	1.759	0.579	2.61 billion	307.19 million	7.131	0.024621	APO (PHA)
2000 CO101	Xk	1.076	0.090	29.27 billion	3.39 billion	7.237	0.021957	APO (PHA)
Dionysus	Cb	2.199	0.542	2.62 trillion	304.03 billion	7.181	0.020620	APO (PHA)
1999 CF9	Q	1.773	0.600	152.75 million	17.52 million	7.248	0.018825	APO (PHA)
2002 AH29	K	2.409	0.561	7.77 billion	892.46 million	7.212	0.110300	AMO
1986 DA	M	2.822	0.582	4.25 trillion	484.74 billion	7.229	0.190995	AMO
1996 BZ3	X	2.644	0.527	73.17 billion	8.35 billion	7.236	0.275839	AMO
Davidharvey	C	2.850	0.589	53.90 trillion	6.14 trillion	7.238	0.203700	AMO
2001 HA8	C	2.386	0.529	1.51 trillion	169.29 billion	7.314	0.121856	AMO

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Apollo	Q	1.470	0.560	805.03 million	88.36 million	7.484	0.025757	APO (PHA)
2000 LC16	Xk	2.735	0.553	4.23 trillion	472.54 billion	7.335	0.212293	AMO
2001 WH2	X	2.042	0.427	4.62 billion	497.31 million	7.544	0.195226	AMO
2000 WC67	X	2.692	0.574	296.27 billion	32.10 billion	7.492	0.232789	AMO
1998 HT31	C	2.512	0.693	10.42 billion	1.11 billion	7.585	0.031156	APO (PHA)
2000 WJ10	Xk	2.069	0.459	3.50 billion	373.22 million	7.602	0.190025	AMO
Atlantis	L	2.251	0.335	48.69 trillion	5.22 trillion	7.550	0.491807	MC A
2001 HW15	X	1.525	0.253	3.50 billion	362.50 million	7.801	0.133584	AMO
1999 VN6	C	1.733	0.370	62.78 billion	6.50 billion	7.787	0.168070	AMO
2001 XS1	Cb	2.670	0.556	125.08 billion	13.16 billion	7.653	0.204889	AMO
Eger	Xe	1.404	0.354	442.75 billion	44.76 billion	7.961	0.079032	APO
Calingasta	Cb	2.195	0.389	20.76 trillion	2.15 trillion	7.762	0.332804	MC A
Vishnu	O	1.060	0.444	242.46 billion	23.25 billion	8.358	0.019393	APO (PHA)
2000 BG19	X	2.658	0.561	727.45 billion	74.68 billion	7.797	0.277888	AMO
Zao	X	2.103	0.423	1.60 trillion	161.92 billion	7.888	0.245362	AMO
1999 SE10	X	3.216	0.619	5.30 billion	546.90 million	7.752	0.232981	AMO

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
1999 JM8	X	2.726	0.641	45.00 trillion	4.58 trillion	7.858	0.024720	APO (PHA)
1994 AH2	O	2.537	0.707	21.02 trillion	2.11 trillion	7.952	0.101523	APO
2000 WL10	Xc	3.141	0.717	92.39 billion	9.31 billion	7.908	0.065028	APO
2000 BM19	O	0.740	0.359	914.79 billion	73.15 billion	9.951	0.083090	ATE
1997 US9	Q	1.053	0.282	67.65 million	6.01 million	8.943	0.249018	APO
2001 SJ262	C	2.945	0.575	30.61 billion	3.04 billion	7.984	0.258586	AMO
1997 SE5	T	3.759	0.661	76.10 million	7.64 million	7.903	0.271512	AMO
Ra-Shalom	Xc	0.832	0.437	1.76 trillion	130.81 billion	10.649	0.150112	ATE
1997 AQ18	C	1.147	0.465	329.46 billion	28.82 billion	9.071	0.186643	APO
1999 HF1	X	0.819	0.463	9.21 trillion	556.48 billion	13.130	0.173457	ATE
1999 YK5	X	0.829	0.558	7.66 trillion	475.65 billion	12.768	0.114081	ATE
1999 JD6	K	0.883	0.633	4.77 trillion	254.72 billion	14.847	0.048097	ATE (PHA)
2000 WO107	X	0.912	0.781	17.40 billion	725.99 million	18.996	0.003075	ATE (PHA)
1997 AC11	Xc	0.913	0.368	2.92 billion	170.33 million	13.580	0.103694	ATE
2000 EA107	Q	0.930	0.456	1.06 billion	61.22 million	13.755	0.161775	ATE
2000 CK33	Xk	0.968	0.415	63.73 billion	4.55 billion	11.089	0.125383	ATE

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Poseidon	O	1.835	0.679	38.13 trillion	3.50 trillion	8.627	0.194222	APO
2002 DH2	Ch	2.051	0.541	20.79 billion	1.96 billion	8.409	0.070741	APO
2001 YK4	X	2.656	0.776	314.94 billion	29.75 billion	8.372	0.064345	APO
Cruithne	Q	0.998	0.515	2.12 billion	117.69 million	14.237	0.070852	ATE
1999 FB	Q	1.180	0.607	175.38 million	14.15 million	9.799	0.197574	APO
2002 DY3	Xk	1.492	0.274	48.34 billion	4.31 billion	8.856	0.143475	AMO
Izhdubar	Q	1.007	0.266	801.64 million	24.81 million	25.539	0.145265	APO
2001 XS30	Xc	1.165	0.828	139.84 billion	7.00 billion	15.785	0.302990	APO
2000 YH66	Xk	1.173	0.744	73.17 billion	4.62 billion	12.510	0.164470	APO
David Hughes	Xe	1.726	0.149	12.14 trillion	1.11 trillion	8.637	0.553546	MC A
Phaethon	B	1.271	0.890	>100 trillion	5.30 trillion	15.347	0.020192	APO (PHA)
2000 CN33	X	2.601	0.586	16.01 billion	1.51 billion	8.344	0.094403	AMO
Bede	Xc	1.774	0.284	11.47 trillion	1.04 trillion	8.662	0.351907	AMO
Gressmann	B	2.220	0.192	81.81 trillion	7.76 trillion	8.317	0.781724	MB A
1995 BL2	L	1.235	0.504	261.02 billion	19.86 billion	10.365	0.375960	APO
2000 BJ19	Q	1.292	0.764	2.78 billion	150.11 million	14.597	0.389692	APO

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2001 UY4	X	1.453	0.788	252.55 billion	18.59 billion	10.701	0.026137	APO (PHA)
2000 WK10	X	1.479	0.702	48.34 billion	3.77 billion	10.098	0.022761	APO (PHA)
2002 AU5	X	2.020	0.754	145.99 billion	12.69 billion	9.055	0.135793	APO
Tantalus	Q	1.290	0.299	1.07 billion	35.86 million	23.460	0.043465	APO (PHA)
Tapio	B	2.299	0.245	>100 trillion	>100 trillion	8.464	0.731415	MB A
Heracles	O	1.834	0.772	>100 trillion	30.33 trillion	9.636	0.058402	APO
Sigurd	K	1.392	0.375	32.74 trillion	2.02 trillion	12.716	0.118482	APO
Munroe	X	2.202	0.136	5.40 trillion	495.45 billion	8.563	0.885403	MB A
Orchis	C	2.419	0.259	>100 trillion	>100 trillion	8.476	0.809220	MB A
Pyotr Pervyj	C	2.331	0.203	>100 trillion	51.16 trillion	8.520	0.852253	MB A
1991 WA	Q	1.575	0.643	698.20 million	37.97 million	14.434	0.193285	APO
2002 AD9	L	1.773	0.809	1.54 trillion	88.50 billion	13.653	0.409705	APO
1991 AM	Q	1.698	0.695	2.42 billion	155.32 million	12.226	0.397203	APO
1974 MA	Q	1.786	0.762	5.55 billion	295.91 million	14.699	0.161869	APO
Yakhontovia	X	2.610	0.324	95.95 trillion	8.86 trillion	8.496	0.776512	MB A
Lilliputia	Cb	2.313	0.171	>100 trillion	17.98 trillion	8.645	0.927667	MB A



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Syringa	Xk	2.629	0.344	>100 trillion	>100 trillion	8.533	0.748952	MB A
Bryantsev	C <sub>g</sub> <sub>h</sub>	2.453	0.238	>100 trillion	18.78 trillion	8.597	0.874962	MB A
1991 XB	K	2.952	0.587	323.81 billion	29.41 billion	8.626	0.236104	AM O
2002 BP26	X	1.697	0.394	16.01 billion	1.23 billion	10.201	0.056726	AM O
2000 YO29	C	1.815	0.694	754.75 billion	31.53 billion	18.756	0.335340	APO
Toyota	Xk	2.220	0.117	>100 trillion	9.91 trillion	8.754	0.978827	MB A
Rudra	B	1.740	0.229	90.46 trillion	7.32 trillion	9.678	0.484550	MC A
Leonardo	B	2.351	0.180	>100 trillion	66.78 trillion	8.672	0.926910	MB A
Mukai	X	2.184	0.091	85.23 trillion	7.59 trillion	8.796	1.004210	MB A
Olmstead	L	2.366	0.300	76.85 trillion	6.90 trillion	8.727	0.695380	MC A
2001 TX16	X	3.579	0.598	23.04 trillion	2.14 trillion	8.434	0.473576	OM B
Eichhorn	Cb	2.335	0.193	38.37 trillion	3.45 trillion	8.709	0.869192	MB A
Parvulesco	C	2.426	0.220	>100 trillion	13.12 trillion	8.667	0.909882	MB A
Beatty	C <sub>g</sub> <sub>h</sub>	2.387	0.191	>100 trillion	25.12 trillion	8.690	0.947972	MB A
Boznemcova	O	2.540	0.297	>100 trillion	97.88 trillion	8.650	0.776509	MB A
Storeria	Ch	2.365	0.287	>100 trillion	83.06 trillion	8.775	0.682309	MB A
Swann	Ch	2.389	0.258	>100 trillion	60.29 trillion	8.761	0.808239	MB A

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Nora	C	2.342	0.230	>100 trillion	>100 trillion	8.79 1	0.7927 21	MB A
Horky	C	2.401	0.190	>100 trillion	20.84 trillion	8.73 4	0.9592 72	MB A
1994 EF2	Q	2.293	0.516	304.77 million	26.04 million	9.15 8	0.2471 84	AM O
Amy	C	2.172	0.025	>100 trillion	20.69 trillion	8.93 7	1.1234 30	MB A
Leetsungdao	T	2.392	0.307	604.51 million	53.60 million	8.82 3	0.6926 78	MC A
Sigrid	Xc	2.430	0.201	>100 trillion	>100 trillion	8.74 2	0.9298 13	MB A
Berry	C	2.287	0.154	>100 trillion	>100 trillion	8.86 0	0.9561 95	MB A
Lunacharsky	B	2.355	0.161	>100 trillion	>100 trillion	8.79 7	0.9614 47	MB A
Tangshan	Cb	2.281	0.122	>100 trillion	>100 trillion	8.87 4	1.0107 60	MB A
A'Hearn	C	2.377	0.168	64.58 trillion	5.74 trillion	8.79 9	0.9912 14	MB A
1998 ST49	Q	2.308	0.595	231.20 million	19.20 million	9.41 5	0.0555 71	APO
Fowler	Cb	2.330	0.153	69.31 trillion	6.13 trillion	8.84 2	0.9897 74	MB A
Tiflis	L	2.329	0.221	>100 trillion	>100 trillion	8.87 9	0.8020 62	MB A
Tatiana	Xc	2.358	0.194	5.10 trillion	450.42 billion	8.85 1	0.9028 66	MB A
Dugan	B	2.314	0.205	>100 trillion	60.19 trillion	8.90 8	0.8728 74	MB A
Kani	C	2.429	0.199	>100 trillion	>100 trillion	8.81 2	0.9482 88	MB A
Amaravella	X	2.274	0.079	7.77 trillion	677.75 billion	8.95 6	1.0871 50	MB A

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Peraga	Ch	2.374	0.153	>100 trillion	>100 trillion	8.871	1.024850	MB A
Lacadiera	Xk	2.251	0.095	>100 trillion	>100 trillion	8.989	1.022800	MB A
Maisica	B	2.365	0.158	32.64 trillion	2.87 trillion	8.885	0.990058	MB A
Kaho	Ch	2.400	0.274	>100 trillion	89.25 trillion	8.920	0.728648	MB A
1980 RC1	C	2.458	0.200	>100 trillion	>100 trillion	8.827	0.965319	MB A
Vernadskij	B	2.429	0.180	>100 trillion	>100 trillion	8.845	0.982494	MB A
Chukotka	C	2.456	0.194	>100 trillion	>100 trillion	8.844	0.967543	MB A
Komendantov	Xc	2.468	0.209	32.49 trillion	2.86 trillion	8.868	0.961573	MB A
Paavo Nurmi	C	2.466	0.191	>100 trillion	>100 trillion	8.863	0.996427	MB A
Horn-d'Arturo	Ch	2.628	0.277	>100 trillion	>100 trillion	8.782	0.909576	MB A
Makharadze	C	2.461	0.188	>100 trillion	>100 trillion	8.870	0.986015	MB A
Levitan	B	2.361	0.127	>100 trillion	>100 trillion	8.954	1.077530	MB A
Sequoia	Xk	1.934	0.095	39.31 trillion	3.12 trillion	9.835	0.811874	IMB
Popov	B	2.339	0.111	>100 trillion	64.96 trillion	8.986	1.094440	MB A
Lilio	C	2.371	0.157	>100 trillion	76.53 trillion	8.985	1.003270	MB A
Madreteresa	C <sub>g</sub> <sub>h</sub>	2.400	0.239	>100 trillion	85.82 trillion	9.008	0.851237	MB A
Gregory	B	2.467	0.186	>100 trillion	33.06 trillion	8.905	1.005660	MB A

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Appenzella	C	2.450	0.179	>100 trillion	>100 trillion	8.921	1.016700	MB A
Capek	C	2.541	0.272	>100 trillion	19.89 trillion	8.897	0.845107	MB A
Heckmann	C	2.435	0.163	>100 trillion	>100 trillion	8.955	1.024630	MB A
Jo-Ann	C	2.451	0.166	>100 trillion	>100 trillion	8.953	1.027390	MB A
1995 WQ5	Ch	2.347	0.414	3.00 trillion	250.04 billion	9.374	0.538128	MC A
Salli	X	2.398	0.241	>100 trillion	>100 trillion	9.071	0.816384	MB A
Aurelia	C	2.598	0.251	>100 trillion	>100 trillion	8.876	0.931765	MB A
Clifford	Cb	2.010	0.204	68.11 trillion	5.34 trillion	9.947	0.615049	MC A
Jekhovsky	C	2.687	0.319	>100 trillion	>100 trillion	8.873	0.827211	MB A
1992 UB	X	3.105	0.568	766.16 billion	66.98 billion	8.920	0.441195	MC A
Kenos	M	1.909	0.168	39.19 trillion	2.81 trillion	10.885	0.710759	MC A
Seilandfarm	L	2.264	0.019	>100 trillion	16.22 trillion	9.223	1.237400	MB A
1999 CW8	B	2.236	0.599	217.07 billion	14.58 billion	11.605	0.231602	APO
Stearns	Xe	1.884	0.132	14.73 trillion	970.17 billion	11.835	0.629586	MC A
Sazava	C	2.452	0.163	>100 trillion	>100 trillion	9.033	1.038110	MB A
Ostro	Xe	1.892	0.067	13.29 trillion	894.63 billion	11.582	0.796210	IMB
Barto	C	2.459	0.158	>100 trillion	>100 trillion	9.042	1.070840	MB A

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Einstein	Xe	1.934	0.099	8.24 trillion	591.00 billion	10.866	0.767434	IMB
Ops	Xc	2.291	0.085	9.07 trillion	762.76 billion	9.266	1.093990	MB A
Jennifer	Xe	1.915	0.142	84.01 trillion	5.50 trillion	11.904	0.667503	MC A
Paola	B	2.468	0.153	>100 trillion	>100 trillion	9.054	1.105650	MB A
Geichenko	C	2.452	0.148	>100 trillion	40.08 trillion	9.076	1.090390	MB A
Hungaria	Xe	1.944	0.074	93.54 trillion	6.61 trillion	11.021	0.833343	IMB
2002 CE26	C	2.233	0.561	33.39 trillion	1.70 trillion	15.275	0.096733	APO
Billmclaughlin	Xc	2.353	0.143	>100 trillion	13.11 trillion	9.239	1.010850	MB A
Roberta	B	2.475	0.173	>100 trillion	>100 trillion	9.085	1.033480	MB A
Kagamigawa	Xc	2.351	0.070	60.28 trillion	5.09 trillion	9.227	1.172320	MB A
Kanaya	Ch	2.345	0.168	>100 trillion	>100 trillion	9.302	0.979082	MB A
Sayers	B	2.349	0.147	>100 trillion	88.15 trillion	9.288	1.012470	MB A
Limpopo	Xc	2.354	0.155	>100 trillion	39.57 trillion	9.289	1.011410	MB A
Robeson	C	2.342	0.146	>100 trillion	>100 trillion	9.310	1.010490	MB A
Dwornik	M	1.954	0.043	6.23 trillion	419.14 billion	11.569	0.907345	IMB
Devosa	X	2.383	0.137	>100 trillion	>100 trillion	9.249	1.090620	MB A
Reaves	X	2.368	0.133	>100 trillion	18.38 trillion	9.277	1.058180	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Dunham	C	2.463	0.135	>100 trillion	>100 trillion	9.137	1.122480	MB A
Nansenia	Ch	2.312	0.106	>100 trillion	>100 trillion	9.371	1.073700	MB A
Walkure	C	2.486	0.161	>100 trillion	>100 trillion	9.131	1.096970	MB A
Viola	C	2.474	0.146	>100 trillion	>100 trillion	9.143	1.131360	MB A
Betulia	C	2.197	0.488	>100 trillion	6.93 trillion	17.060	0.135315	AMO
Wielen	Xc	2.285	0.064	20.52 trillion	1.69 trillion	9.428	1.132170	MB A
Oskar	C	2.445	0.129	>100 trillion	>100 trillion	9.190	1.147600	MB A
Aenna	Xe	2.464	0.164	>100 trillion	8.89 trillion	9.193	1.049140	MB A
Fredegundis	X	2.573	0.219	>100 trillion	>100 trillion	9.099	1.025040	MB A
Riema	Xe	1.979	0.039	12.81 trillion	801.24 billion	12.448	0.911444	IMB
Eichsfeldia	Ch	2.345	0.071	>100 trillion	>100 trillion	9.358	1.180810	MB A
Thais	T	2.431	0.242	12.08 billion	1.01 billion	9.338	0.873401	MB A
Onizaki	Xe	2.346	0.109	>100 trillion	15.41 trillion	9.408	1.074570	MB A
Newell	Xc	2.402	0.111	32.68 trillion	2.73 trillion	9.320	1.159340	MB A
Portlandia	Xk	2.373	0.110	>100 trillion	>100 trillion	9.391	1.133440	MB A
Alvema	Xc	2.786	0.313	>100 trillion	32.91 trillion	9.027	0.931584	MB A
Hamburga	C	2.551	0.173	>100 trillion	>100 trillion	9.163	1.126520	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Sarema	C	2.482	0.134	>100 trillion	>100 trillion	9.24 4	1.1657 20	MB A
NOT	T	2.400	0.096	875.46 million	72.92 million	9.34 3	1.1885 80	MB A
Tatry	C	2.351	0.077	>100 trillion	53.10 trillion	9.47 3	1.2044 50	MB A
Rebekka	C	2.400	0.158	>100 trillion	>100 trillion	9.43 4	1.0259 00	MB A
Drakonia	M	2.436	0.135	>100 trillion	42.78 trillion	9.36 5	1.0996 60	MB A
Boury	C	2.324	0.046	>100 trillion	24.16 trillion	9.55 7	1.2457 40	MB A
Bilkis	C	2.431	0.128	>100 trillion	>100 trillion	9.37 5	1.1338 20	MB A
Zelinda	Ch	2.297	0.231	>100 trillion	>100 trillion	9.85 5	0.8046 55	MB A
d'Alembert	C	2.711	0.292	>100 trillion	>100 trillion	9.16 2	0.9178 39	MB A
Lindelof	X	2.763	0.283	>100 trillion	93.95 trillion	9.09 8	0.9930 47	MB A
Lindbloom	Xc	2.399	0.080	73.10 trillion	6.00 trillion	9.46 9	1.1968 60	MB A
Arpola	Xc	2.328	0.042	>100 trillion	8.53 trillion	9.65 4	1.2553 40	MB A
Tercidina	Ch	2.326	0.061	>100 trillion	>100 trillion	9.67 9	1.2106 70	MB A
Braille	Q	2.342	0.433	2.78 billion	197.73 million	10.9 31	0.3151 51	MC A
Brangane	K	2.587	0.220	>100 trillion	>100 trillion	9.29 8	1.0328 40	MB A
Sanguin	Ch	2.319	0.114	>100 trillion	>100 trillion	9.81 0	1.0435 80	MB A
Opik	Ch	2.304	0.360	24.54 trillion	1.76 trillion	10.8 38	0.4950 97	MC A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Iva	M	2.851	0.300	>100 trillion	>100 trillion	9.104	0.993900	MB A
Idelsonia	C <sub>g</sub> h	2.716	0.295	>100 trillion	>100 trillion	9.263	0.910033	MB A
2001 UC5	X	2.743	0.627	879.67 million	62.42 million	10.955	0.059866	AM O
Tsubetsu	X	2.401	0.067	63.39 trillion	5.12 trillion	9.613	1.233310	MB A
Osiris	C	2.435	0.063	>100 trillion	>100 trillion	9.530	1.304450	MB A
Gaoshiqi	X <sub>k</sub>	2.410	0.050	>100 trillion	9.33 trillion	9.591	1.276010	MB A
1996 TE11	X <sub>c</sub>	2.570	0.473	1.68 trillion	128.40 billion	10.175	0.585323	MC A
Lyyli	X	2.591	0.407	>100 trillion	>100 trillion	9.774	0.687971	MC A
1988 AA5	C <sub>b</sub>	2.796	0.283	>100 trillion	81.57 trillion	9.194	1.015040	MB A
Lambrecht	X <sub>c</sub>	2.473	0.072	>100 trillion	53.59 trillion	9.527	1.307880	MB A
Spicer	X <sub>c</sub>	2.697	0.234	>100 trillion	56.48 trillion	9.278	1.080790	MB A
Titius	X <sub>c</sub>	2.419	0.064	>100 trillion	33.48 trillion	9.671	1.266480	MB A
Misa	C <sub>g</sub>	2.657	0.181	>100 trillion	>100 trillion	9.292	1.192040	MB A
Thia	C <sub>h</sub>	2.585	0.243	>100 trillion	>100 trillion	9.493	0.977069	MB A
Seifert	X <sub>k</sub>	2.609	0.253	>100 trillion	44.24 trillion	9.468	0.989422	MB A
Kridsadaporn	C	3.113	0.574	>100 trillion	26.80 trillion	9.548	0.522162	MC A
Dolores	C <sub>b</sub>	2.701	0.237	>100 trillion	>100 trillion	9.301	1.050750	MB A



Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Barbarossa	X	2.568	0.201	>100 trillion	50.98 trillion	9.479	1.037500	MB A
Daisetsuzan	Xc	2.436	0.070	77.84 trillion	6.25 trillion	9.672	1.259480	MB A
Smiley	C <sub>gh</sub>	2.734	0.262	>100 trillion	>100 trillion	9.297	1.046310	MB A
Therhoe	K	2.769	0.238	>100 trillion	>100 trillion	9.234	1.124930	MB A
Flagsymphony	Ch	2.778	0.288	>100 trillion	>100 trillion	9.299	0.991621	MB A
Decaro	Cb	2.608	0.270	>100 trillion	73.51 trillion	9.553	0.961449	MB A
Strattonia	C	2.683	0.214	>100 trillion	>100 trillion	9.351	1.123260	MB A
Lilith	X	2.663	0.196	>100 trillion	93.59 trillion	9.366	1.153130	MB A
Edburga	X	2.586	0.341	>100 trillion	>100 trillion	9.850	0.795395	MB A
Durrell	C	2.728	0.252	>100 trillion	>100 trillion	9.358	1.040750	MB A
Antwerpia	C	2.686	0.234	>100 trillion	>100 trillion	9.419	1.075270	MB A
Brixia	Ch	2.741	0.282	>100 trillion	>100 trillion	9.418	0.993845	MB A
Tokio	M	2.652	0.223	>100 trillion	>100 trillion	9.484	1.071290	MB A
Ludibunda	K	2.746	0.238	>100 trillion	>100 trillion	9.360	1.095740	MB A
Johnmills	C	2.737	0.272	>100 trillion	90.13 trillion	9.449	1.004770	MB A
Bower	C	2.572	0.150	>100 trillion	>100 trillion	9.619	1.216870	MB A
Afra	X	2.640	0.223	>100 trillion	>100 trillion	9.573	1.089790	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Zwetana	Cb	2.569	0.211	>100 trillion	>100 trillion	9.73 2	1.0459 90	MB A
Endymion	Ch	2.568	0.129	>100 trillion	>100 trillion	9.63 5	1.2597 20	MB A
Nicole	C	2.568	0.114	>100 trillion	>100 trillion	9.62 5	1.2664 20	MB A
Vienna	K	2.635	0.247	>100 trillion	>100 trillion	9.66 2	1.0011 50	MB A
Buda	L	2.472	0.148	>100 trillion	>100 trillion	9.96 8	1.1298 40	MB A
Tamara	C	2.317	0.190	>100 trillion	>100 trillion		0.9439 52	MB A
Nasi	C <sub>g</sub> h	2.729	0.252	>100 trillion	>100 trillion	9.48 8	1.0700 20	MB A
Victoria	L	2.334	0.220	9.64 billion	623.30 million		0.8249 53	MB A
Amherstia	X	2.682	0.272	>100 trillion	>100 trillion	9.61 8	0.9926 89	MB A
Tarkovskij	C	2.474	0.190	>100 trillion	>100 trillion	10.0 78	1.0213 80	MB A
Desiderata	C	2.597	0.314	>100 trillion	>100 trillion	9.97 4	0.8330 17	MB A
Westphalia	Ch	2.431	0.144	>100 trillion	>100 trillion	10.1 78	1.0807 00	MB A
Austria	Xe	2.286	0.085	>100 trillion	>100 trillion		1.0915 80	MB A
Roxane	Xe	2.287	0.085	>100 trillion	55.01 trillion		1.0818 10	MB A
Hedda	Ch	2.284	0.029	>100 trillion	>100 trillion		1.2083 50	MB A
Milton	Xe	2.585	0.315	>100 trillion	15.52 trillion	10.0 77	0.7734 66	MB A
Backlunda	C	2.436	0.119	>100 trillion	>100 trillion	10.1 74	1.1964 00	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Klio	Ch	2.362	0.236	>100 trillion	>100 trillion		0.7976 48	MB A
Beira	B	2.733	0.490	>100 trillion	57.73 trillion	10.6 89	0.6381 35	MC A
Henrika	C	2.712	0.206	>100 trillion	>100 trillion	9.49 6	1.1422 20	MB A
Liguria	C	2.756	0.240	>100 trillion	>100 trillion	9.47 0	1.1270 00	MB A
Amalia	Ch	2.358	0.222	>100 trillion	>100 trillion		0.8328 25	MB A
Ruanda	X	2.751	0.188	>100 trillion	75.17 trillion	9.42 5	1.2177 60	MB A
Giovanniprati	Ch	2.792	0.237	>100 trillion	>100 trillion	9.42 7	1.1458 70	MB A
Pamina	Ch	2.738	0.213	>100 trillion	>100 trillion	9.48 6	1.1669 80	MB A
Alemannia	M	2.592	0.120	>100 trillion	>100 trillion	9.69 2	1.2910 90	MB A
Brubeck	B	2.643	0.204	>100 trillion	>100 trillion	9.68 7	1.1415 70	MB A
Caprera	C	2.720	0.219	>100 trillion	>100 trillion	9.55 8	1.1549 10	MB A
Boliviana	X	2.574	0.187	>100 trillion	>100 trillion	9.87 0	1.1035 20	MB A
Mathieu	X	2.766	0.305	>100 trillion	28.07 trillion	9.64 0	0.9041 24	MB A
Erigone	Ch	2.367	0.191	17.33 billion	1.12 billion		0.9366 16	MB A
Prymno	X	2.332	0.089	>100 trillion	>100 trillion		1.1362 30	MB A
Lampetia	Xc	2.779	0.330	>100 trillion	>100 trillion	9.68 2	0.9167 95	MB A
Dora	Ch	2.793	0.236	>100 trillion	>100 trillion	9.46 3	1.1336 80	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Fanny	Ch	2.771	0.213	>100 trillion	>100 trillion	9.468	1.171750	MB A
Ostrovskij	Xk	2.750	0.190	>100 trillion	25.22 trillion	9.485	1.246100	MB A
Sarita	X	2.634	0.320	>100 trillion	>100 trillion	10.110	0.811397	MB A
Chaldae	C	2.375	0.182	>100 trillion	>100 trillion		0.973294	MB A
Clorinde	B	2.340	0.080	>100 trillion	>100 trillion		1.185040	MB A
Celuta	K	2.361	0.150	>100 trillion	>100 trillion		1.018420	MB A
Artemis	Ch	2.374	0.177	18.15 billion	1.17 billion		1.011440	MB A
Chloris	Ch	2.724	0.242	>100 trillion	>100 trillion	9.642	1.047750	MB A
Evelyn	Ch	2.723	0.176	>100 trillion	>100 trillion	9.550	1.262810	MB A
Bezovec	C	2.422	0.211	>100 trillion	>100 trillion	11.551	0.928514	MB A
Olga	Xc	2.404	0.222	1.27 billion	81.91 million		0.861074	MB A
Athor	Xc	2.379	0.138	>100 trillion	>100 trillion		1.056860	MB A
Svetlanov	Ch	2.788	0.233	>100 trillion	>100 trillion	9.541	1.137760	MB A
Zhongolovich	Ch	2.777	0.231	>100 trillion	>100 trillion	9.566	1.134120	MB A
Nemausa	Ch	2.366	0.068	>100 trillion	>100 trillion		1.210150	MB A
Estremadoyro	C	2.784	0.234	>100 trillion	>100 trillion	9.566	1.145950	MB A
Baucis	L	2.380	0.114	>100 trillion	>100 trillion		1.097010	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Arsinoe	Ch	2.594	0.199	>100 trillion	>100 trillion	10.0 10	1.1086 60	MB A
Marghanna	Ch	2.729	0.322	>100 trillion	>100 trillion	9.92 5	0.8933 85	MB A
Happelia	Xc	2.751	0.192	>100 trillion	>100 trillion	9.57 6	1.2150 50	MB A
Semphyra	Xe	2.806	0.200	>100 trillion	57.34 trillion	9.48 4	1.2625 50	MB A
Admete	C	2.743	0.223	>100 trillion	>100 trillion	9.65 0	1.1511 90	MB A
Burnaby	C	2.701	0.173	>100 trillion	68.18 trillion	9.66 9	1.2607 10	MB A
Libera	X	2.654	0.247	>100 trillion	>100 trillion	9.95 3	1.0420 70	MB A
Metcalfia	X	2.622	0.131	>100 trillion	>100 trillion	9.82 6	1.3026 10	MB A
Aeolia	Xe	2.741	0.160	>100 trillion	>100 trillion	9.57 4	1.2850 30	MB A
Pariana	M	2.612	0.166	>100 trillion	>100 trillion	9.92 3	1.2202 70	MB A
Milani	Xe	2.703	0.140	>100 trillion	31.91 trillion	9.63 8	1.3323 90	MB A
Isis	L	2.442	0.223	8.07 billion	521.52 million		0.8995 44	MB A
Ellenbeth	Ch	2.789	0.230	>100 trillion	>100 trillion	9.58 6	1.1509 00	MB A
Fujiwara	Ch	2.772	0.225	>100 trillion	>100 trillion	9.61 6	1.1548 20	MB A
Aethra	Xe	2.608	0.390	>100 trillion	26.67 trillion		0.7727 63	MC A
Pien	B	2.728	0.188	>100 trillion	>100 trillion	9.65 9	1.2261 80	MB A
Odessa	Xk	2.758	0.265	>100 trillion	42.07 trillion	9.73 4	1.0297 10	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Colchis	Xk	2.665	0.116	>100 trillion	>100 trillion	9.721	1.350290	MB A
Ryabov	B	2.703	0.165	>100 trillion	79.02 trillion	9.689	1.271180	MB A
Hertha	Xk	2.428	0.207	1.50 billion	96.79 million		0.912862	MB A
Merlin	Ch	2.781	0.218	>100 trillion	>100 trillion	9.601	1.191970	MB A
Lubomir	Ch	2.768	0.206	>100 trillion	>100 trillion	9.616	1.187140	MB A
Priska	Ch	2.669	0.183	>100 trillion	>100 trillion	9.819	1.181730	MB A
Lotis	C	2.607	0.123	>100 trillion	>100 trillion	9.922	1.292350	MB A
Latvia	L	2.645	0.171	>100 trillion	>100 trillion	9.875	1.230050	MB A
Comas Sola	B	2.779	0.235	>100 trillion	>100 trillion	9.647	1.148650	MB A
Clarissa	C	2.405	0.111	>100 trillion	>100 trillion		1.151730	MB A
van Altena	Cb	2.715	0.182	>100 trillion	>100 trillion	9.706	1.216340	MB A
Lova	Ch	2.702	0.149	>100 trillion	>100 trillion	9.691	1.315790	MB A
Nezarka	X	2.621	0.144	>100 trillion	>100 trillion	9.915	1.230040	MB A
Lene	C	2.697	0.151	>100 trillion	>100 trillion	9.715	1.274450	MB A
Nysa	Xc	2.423	0.148	>100 trillion	>100 trillion		1.081940	MB A
Polana	B	2.419	0.135	>100 trillion	>100 trillion		1.084290	MB A
Chloe	K	2.559	0.112	>100 trillion	>100 trillion	10.125	1.288170	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Hedera	X	2.716	0.158	>100 trillion	24.36 trillion	9.684	1.285290	MB A
Recogné	C	2.713	0.174	>100 trillion	>100 trillion	9.714	1.240910	MB A
Phillipadams	B	2.711	0.225	>100 trillion	>100 trillion	9.821	1.138330	MB A
Chodas	Ch	2.735	0.209	>100 trillion	61.74 trillion	9.728	1.170490	MB A
Tinette	X	2.721	0.273	>100 trillion	>100 trillion	9.918	1.016800	MB A
Rufino	C	2.555	0.202	>100 trillion	>100 trillion	10.413	1.090600	MB A
Siberia	Xk	2.545	0.133	>100 trillion	56.53 trillion	10.262	1.247730	MB A
Ruvuma	C	2.751	0.212	>100 trillion	>100 trillion	9.703	1.172180	MB A
Paulharris	C	2.788	0.467	>100 trillion	34.29 trillion	11.270	0.727830	MC A
Lucidor	C	2.692	0.143	>100 trillion	>100 trillion	9.749	1.321830	MB A
Bezruc	C	2.666	0.195	>100 trillion	>100 trillion	9.920	1.137200	MB A
Madeline	D	2.626	0.162	3.65 billion	284.51 million	9.951	1.222690	MB A
1980 VX1	Ch	2.787	0.207	>100 trillion	83.26 trillion	9.634	1.239680	MB A
Fortuna	Ch	2.443	0.158	73.89 billion	4.77 billion		1.062130	MB A
Nina	X	2.663	0.228	>100 trillion	>100 trillion	10.033	1.074360	MB A
Harryford	C	2.739	0.198	>100 trillion	>100 trillion	9.735	1.214350	MB A
Lutetia	Xk	2.435	0.163	1.70 billion	110.03 million		1.027910	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Pax	K	2.589	0.310	>100 trillion	>100 trillion	11.077	0.962939	MB A
Iphigenia	Ch	2.434	0.128	16.98 billion	1.10 billion		1.113770	MB A
1992 ST1	Cb	2.790	0.209	>100 trillion	>100 trillion	9.644	1.192280	MB A
Octavia	X	2.761	0.250	>100 trillion	>100 trillion	9.795	1.110860	MB A
Soderblom	Ch	2.747	0.149	>100 trillion	>100 trillion	9.656	1.349610	MB A
Murray	X	2.784	0.196	>100 trillion	63.74 trillion	9.641	1.243630	MB A
Montague	C	2.569	0.024	>100 trillion	>100 trillion	10.096	1.529010	MB A
Faina	Ch	2.551	0.153	>100 trillion	>100 trillion	10.389	1.207470	MB A
Dabu	Ch	2.786	0.215	>100 trillion	>100 trillion	9.676	1.217050	MB A
Jacqueline	C	2.605	0.079	>100 trillion	>100 trillion	9.997	1.416570	MB A
1989 BD	C	2.699	0.152	>100 trillion	47.67 trillion	9.788	1.317040	MB A
Flammario	B	2.736	0.285	>100 trillion	>100 trillion	10.004	1.030170	MB A
Hurban	Xk	2.726	0.161	>100 trillion	>100 trillion	9.740	1.283890	MB A
Beatrix	X	2.432	0.082	>100 trillion	>100 trillion		1.232610	MB A
1991 PK11	D	2.745	0.177	696.64 million	55.73 million	9.686	1.282040	MB A
Vala	Xc	2.432	0.068	>100 trillion	>100 trillion		1.258500	MB A
Pawlowia	K	2.706	0.112	>100 trillion	>100 trillion	9.748	1.408370	MB A



Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Georgia	X	2.727	0.157	>100 trillion	>100 trillion	9.750	1.291410	MB A
Marceline	Xe	2.786	0.222	>100 trillion	36.74 trillion	9.720	1.185010	MB A
1987 YH	Ch	2.779	0.203	>100 trillion	>100 trillion	9.707	1.245600	MB A
Fiducia	C	2.678	0.113	>100 trillion	>100 trillion	9.845	1.372350	MB A
Tikhov	Cb	2.710	0.149	>100 trillion	>100 trillion	9.805	1.305830	MB A
Irkutsk	X	2.781	0.168	>100 trillion	>100 trillion	9.666	1.304180	MB A
Komarov	Ch	2.785	0.191	>100 trillion	>100 trillion	9.695	1.236100	MB A
Johnpearse	Ch	2.801	0.206	>100 trillion	>100 trillion	9.689	1.256320	MB A
Janacek	X	2.715	0.112	>100 trillion	9.65 trillion	9.772	1.426250	MB A
Parks	Ch	2.712	0.399	>100 trillion	8.36 trillion	11.601	0.819440	MC A
Eva	X	2.632	0.346	>100 trillion	60.10 trillion		0.880177	MB A
Arachne	C	2.625	0.070	>100 trillion	>100 trillion	10.044	1.455970	MB A
Woltjer	Ch	2.785	0.191	>100 trillion	>100 trillion	9.729	1.251140	MB A
Akan	C	2.796	0.199	>100 trillion	>100 trillion	9.717	1.268540	MB A
Aspasia	Xc	2.576	0.073	>100 trillion	>100 trillion	10.290	1.376860	MB A
Antoku	X	2.741	0.146	>100 trillion	58.10 trillion	9.771	1.344160	MB A
Moira	Ch	2.735	0.159	>100 trillion	>100 trillion	9.820	1.297960	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Viipuri	C	2.693	0.081	>100 trillion	>100 trillion	9.846	1.491430	MB A
Grissom	C	2.748	0.163	>100 trillion	>100 trillion	9.795	1.313100	MB A
Kodaira	B	2.755	0.417	>100 trillion	43.86 trillion	11.709	0.818484	MC A
Cora	X	2.723	0.215	>100 trillion	>100 trillion	9.996	1.168080	MB A
Zdenekhorsky	C	2.741	0.128	>100 trillion	>100 trillion	9.780	1.388200	MB A
Clasien	C	2.774	0.180	>100 trillion	>100 trillion	9.768	1.273060	MB A
Barks	C	2.721	0.130	>100 trillion	>100 trillion	9.854	1.361350	MB A
Lobachevskij	L	2.698	0.078	>100 trillion	44.89 trillion	9.871	1.470480	MB A
Canterbury	Ch	2.790	0.181	>100 trillion	>100 trillion	9.754	1.271860	MB A
Alsatia	C	2.640	0.162	>100 trillion	>100 trillion	10.247	1.228690	MB A
Kemi	C	2.773	0.417	>100 trillion	>100 trillion	11.594	0.875135	MC A
Thirouin	K	2.717	0.093	>100 trillion	61.14 trillion	9.844	1.455310	MB A
Pia	C	2.693	0.111	>100 trillion	>100 trillion	9.937	1.410890	MB A
Henan	L	2.699	0.086	>100 trillion	85.45 trillion	9.893	1.479270	MB A
Scania	K	2.716	0.106	>100 trillion	>100 trillion	9.864	1.425910	MB A
Haug	C	2.920	0.222	>100 trillion	>100 trillion	9.563	1.266030	MB A
Notburga	Xc	2.573	0.243	>100 trillion	>100 trillion	11.655	0.997854	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Gentelec	D	2.740	0.121	525.91 million	41.68 million	9.773	1.426450	MB A
Kimura	Ch	2.793	0.178	>100 trillion	59.67 trillion	9.764	1.315330	MB A
Lugano	Ch	2.677	0.136	>100 trillion	>100 trillion	10.050	1.348300	MB A
Svea	C	2.477	0.025	>100 trillion	>100 trillion		1.432610	MB A
Luisa	K	2.774	0.292	>100 trillion	>100 trillion	10.145	1.021420	MB A
Tetsuya	Ch	2.785	0.173	>100 trillion	>100 trillion	9.782	1.328410	MB A
Lena	X	2.685	0.148	>100 trillion	>100 trillion	10.055	1.285100	MB A
Benfranklin	B	2.801	0.194	>100 trillion	>100 trillion	9.783	1.266780	MB A
Namaqua	X	2.782	0.160	>100 trillion	>100 trillion	9.775	1.332820	MB A
Lavrov	L	2.730	0.103	>100 trillion	85.51 trillion	9.852	1.446200	MB A
Charlois	C	2.672	0.148	>100 trillion	>100 trillion	10.140	1.291050	MB A
Kiladze	L	2.694	0.078	>100 trillion	24.30 trillion	9.954	1.467520	MB A
Hestia	Xc	2.526	0.172	7.03 billion	453.77 million		1.086710	MB A
Delila	B	2.750	0.161	>100 trillion	>100 trillion	9.893	1.324050	MB A
Albitskij	Ch	2.662	0.133	>100 trillion	>100 trillion	10.167	1.333950	MB A
Subbotina	Cg	2.787	0.138	>100 trillion	>100 trillion	9.760	1.387450	MB A
Rimskij-Korsakov	Cb	2.797	0.178	>100 trillion	>100 trillion	9.797	1.290590	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Lujiaxi	L	2.732	0.104	>100 trillion	>100 trillion	9.871	1.448140	MB A
Alvarez	B	2.776	0.405	>100 trillion	99.35 trillion	11.704	0.834209	MC A
Walbeck	Cg	2.785	0.290	>100 trillion	>100 trillion	10.171	1.004350	MB A
Kennoguchi	Ch	2.792	0.172	>100 trillion	>100 trillion	9.809	1.329320	MB A
Izu	Ch	2.675	0.160	>100 trillion	>100 trillion	10.197	1.237780	MB A
Pasteur	C	2.694	0.116	>100 trillion	>100 trillion	10.033	1.400580	MB A
Sonneberga	X	2.682	0.060	>100 trillion	>100 trillion	10.014	1.521970	MB A
MIT	Ch	2.682	0.140	>100 trillion	>100 trillion	10.122	1.326550	MB A
Melanie	C	2.698	0.140	>100 trillion	>100 trillion	10.066	1.317110	MB A
Karl Marx	C	2.797	0.181	>100 trillion	>100 trillion	9.826	1.323690	MB A
Demokritos	Ch	2.796	0.167	>100 trillion	>100 trillion	9.807	1.328810	MB A
Julia	K	2.550	0.185	45.43 billion	2.93 billion		1.100120	MB A
Euryanthe	Cb	2.727	0.150	>100 trillion	>100 trillion	10.008	1.307140	MB A
Whitehouse	Cg	2.800	0.152	>100 trillion	82.76 trillion	9.792	1.390220	MB A
Gunma	Ch	2.785	0.167	>100 trillion	>100 trillion	9.856	1.340580	MB A
Megaira	C	2.800	0.206	>100 trillion	>100 trillion	9.892	1.247140	MB A
Vinifera	X	2.618	0.206	>100 trillion	>100 trillion	10.895	1.066460	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Russia	C	2.552	0.175	>100 trillion	>100 trillion		1.1088 10	MB A
Okadanoboru	Cgh	2.698	0.192	>100 trillion	>100 trillion	10.2 44	1.2231 80	MB A
Sumeria	Ch	2.781	0.158	>100 trillion	>100 trillion	9.86 0	1.3552 40	MB A
Dudu	Xc	2.746	0.278	>100 trillion	>100 trillion	10.3 73	0.9909 92	MB A
Campania	Ch	2.689	0.078	>100 trillion	>100 trillion	10.0 63	1.4886 50	MB A
Elba	Xc	2.736	0.142	>100 trillion	45.22 trillion	10.0 00	1.3363 70	MB A
Emita	Ch	2.741	0.157	>100 trillion	>100 trillion	10.0 12	1.3216 60	MB A
1988 FF	Ch	2.769	0.168	>100 trillion	>100 trillion	9.94 4	1.2892 80	MB A
Tesla	C	2.811	0.181	>100 trillion	>100 trillion	9.84 5	1.3237 00	MB A
Arenda	Xc	2.731	0.089	>100 trillion	>100 trillion	9.95 1	1.5094 80	MB A
Melete	Xk	2.596	0.238	4.63 billion	298.39 million		0.9803 57	MB A
Thuringia	Ch	2.748	0.218	>100 trillion	>100 trillion	10.1 62	1.1920 80	MB A
Virginia	Ch	2.649	0.286	24.14 billion	1.56 billion		0.8914 22	MB A
Polyakhova	L	2.689	0.030	>100 trillion	26.15 trillion	10.0 72	1.6249 80	MB A
Monicalazzarin	Ch	2.783	0.157	>100 trillion	>100 trillion	9.89 4	1.3554 30	MB A
Fabini	C	2.699	0.083	>100 trillion	>100 trillion	10.0 89	1.4869 60	MB A
Federer	L	2.734	0.075	>100 trillion	20.63 trillion	9.95 7	1.5128 30	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Eurydike	Xk	2.675	0.304	>100 trillion	>100 trillion		0.8537 35	MB A
Prokne	C	2.615	0.238	19.23 billion	1.24 billion		0.9858 87	MB A
Hugo	C	2.705	0.096	>100 trillion	>100 trillion	10.1 01	1.4652 50	MB A
Titania	C	2.698	0.217	>100 trillion	>100 trillion	10.4 76	1.1460 10	MB A
Gyptis	C	2.769	0.176	>100 trillion	>100 trillion	10.0 07	1.2817 50	MB A
Rockholt	B	2.734	0.356	>100 trillion	18.23 trillion	12.4 42	0.9535 10	MB A
Weissman	C <sub>g</sub> h	2.666	0.181	>100 trillion	>100 trillion	10.5 47	1.2285 10	MB A
Sinzot	C	2.772	0.139	>100 trillion	>100 trillion	9.93 9	1.4116 30	MB A
Stobbe	Xc	2.610	0.021	>100 trillion	55.82 trillion	10.5 87	1.5465 50	MB A
Sarahill	Ch	2.718	0.065	>100 trillion	>100 trillion	10.0 45	1.5531 80	MB A
Hedwig	X	2.651	0.072	>100 trillion	>100 trillion	10.3 87	1.4416 00	MB A
Richilde	Xk	2.711	0.118	>100 trillion	>100 trillion	10.1 62	1.3837 50	MB A
Mathilde	Cb	2.649	0.263	>100 trillion	57.19 trillion		0.9446 80	MB A
Peter	C	2.735	0.090	>100 trillion	>100 trillion	10.0 29	1.4896 80	MB A
Sheba	X	2.653	0.179	>100 trillion	>100 trillion	10.7 28	1.2542 50	MB A
Aeria	M	2.649	0.096	>100 trillion	>100 trillion	10.4 69	1.4315 80	MB A
Lawrence	C	2.757	0.363	>100 trillion	14.56 trillion	12.5 20	0.9243 34	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Anyuta	X	2.750	0.123	>100 trillion	16.36 trillion	10.030	1.403910	MB A
Jerome	Ch	2.784	0.161	>100 trillion	>100 trillion	9.982	1.348370	MB A
Sophrosyne	Ch	2.563	0.117	>100 trillion	>100 trillion		1.312450	MB A
Hirundo	C <sub>g</sub> <sub>h</sub>	2.729	0.194	>100 trillion	>100 trillion	10.307	1.204350	MB A
1991 RN10	L	2.767	0.114	>100 trillion	18.75 trillion	9.970	1.450260	MB A
Tarka	Ch	2.635	0.214	>100 trillion	>100 trillion	11.406	1.166530	MB A
1992 EU	B	2.800	0.380	>100 trillion	9.79 trillion	11.916	0.963948	MB A
Felicitas	Ch	2.696	0.299	>100 trillion	>100 trillion		0.915348	MB A
Egorov	C	2.750	0.088	>100 trillion	84.28 trillion	10.021	1.510460	MB A
Bauschinger	X	2.731	0.065	>100 trillion	56.53 trillion	10.068	1.549430	MB A
Diana	Ch	2.619	0.207	10.95 billion	706.10 million		1.095700	MB A
Slipher	C	2.748	0.088	>100 trillion	>100 trillion	10.033	1.500900	MB A
Radcliffe	X	2.749	0.076	>100 trillion	87.62 trillion	10.017	1.531320	MB A
1988 AG	X	2.808	0.169	>100 trillion	11.29 trillion	9.971	1.355690	MB A
Svoboda	Xk	2.788	0.155	>100 trillion	92.26 trillion	10.022	1.391770	MB A
Miriam	C	2.662	0.252	>100 trillion	>100 trillion		0.989341	MB A
Somville	C	2.728	0.088	>100 trillion	>100 trillion	10.144	1.511560	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Roerich	L	2.752	0.067	>100 trillion	42.61 trillion	10.026	1.551030	MB A
Dzus	Ch	2.726	0.201	>100 trillion	>100 trillion	10.452	1.225840	MB A
Rovereto	D	2.799	0.184	1.47 billion	113.55 million	10.004	1.290670	MB A
Crabeels	L	2.741	0.070	>100 trillion	16.66 trillion	10.087	1.533360	MB A
Suevia	Xk	2.798	0.136	>100 trillion	>100 trillion	9.971	1.419160	MB A
Panopaea	Ch	2.616	0.180	37.33 billion	2.41 billion		1.163100	MB A
Egeria	Ch	2.576	0.085	102.58 billion	6.61 billion		1.436330	MB A
Beograd	X	2.717	0.046	>100 trillion	>100 trillion	10.178	1.580510	MB A
Vibilia	Ch	2.655	0.235	49.31 billion	3.18 billion		1.037420	MB A
Wilson	Ch	2.754	0.073	>100 trillion	>100 trillion	10.052	1.535640	MB A
Alku	C	2.673	0.189	>100 trillion	>100 trillion	10.924	1.199960	MB A
Shcherbakovia	C	2.775	0.099	>100 trillion	>100 trillion	10.019	1.488340	MB A
Gunnie	X	2.694	0.091	>100 trillion	>100 trillion	10.378	1.463160	MB A
Sweitzer	Cb	2.698	0.045	>100 trillion	>100 trillion	10.293	1.589230	MB A
Strenua	Xc	2.700	0.039	>100 trillion	>100 trillion	10.283	1.593340	MB A
Aquitania	L	2.741	0.235	>100 trillion	>100 trillion	10.625	1.089970	MB A
Kozlovskij	Cb	2.744	0.063	>100 trillion	81.95 trillion	10.109	1.573270	MB A



Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Anacostia	L	2.739	0.203	>100 trillion	>100 trillion	10.473	1.232110	MB A
Holda	X	2.732	0.079	>100 trillion	>100 trillion	10.182	1.512600	MB A
Hakone	Xe	2.688	0.119	>100 trillion	>100 trillion	10.503	1.421140	MB A
Vangelis	Cb	2.656	0.217	>100 trillion	22.83 trillion	11.758	1.230210	MB A
Aegina	Ch	2.592	0.106	>100 trillion	>100 trillion		1.335350	MB A
Klotho	M	2.668	0.257	1.33 billion	85.95 million		1.036570	MB A
Ate	Ch	2.593	0.103	13.10 billion	844.68 million		1.344010	MB A
Declercq	Ch	2.785	0.085	>100 trillion	>100 trillion	9.997	1.548140	MB A
1988 TQ4	C	2.783	0.080	>100 trillion	>100 trillion	10.006	1.562110	MB A
Anastasia	L	2.792	0.138	>100 trillion	>100 trillion	10.054	1.396780	MB A
Fram	C	2.780	0.085	>100 trillion	>100 trillion	10.024	1.548970	MB A
Botolphia	X	2.719	0.070	>100 trillion	>100 trillion	10.279	1.550250	MB A
Freud	Xc	2.766	0.091	>100 trillion	77.99 trillion	10.098	1.499350	MB A
Nonie	B	2.761	0.329	>100 trillion	>100 trillion	12.620	0.997162	MB A
Bogorodskij	Cg	2.754	0.071	>100 trillion	>100 trillion	10.127	1.542030	MB A
Padua	X	2.748	0.071	>100 trillion	>100 trillion	10.153	1.556160	MB A
Massachusetts	X	2.613	0.070	>100 trillion	>100 trillion	11.315	1.447460	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Praxedis	Xk	2.775	0.235	>100 trillion	>100 trillion	10.489	1.130900	MB A
Descartes	C	2.703	0.039	>100 trillion	>100 trillion	10.348	1.608700	MB A
Delia	Ch	2.784	0.085	>100 trillion	>100 trillion	10.032	1.530410	MB A
Koyo	Cb	2.780	0.087	>100 trillion	>100 trillion	10.051	1.540520	MB A
Coppelia	Xe	2.659	0.076	>100 trillion	45.39 trillion	10.734	1.501740	MB A
Kiso	T	2.759	0.059	33.01 billion	2.53 billion	10.109	1.581010	MB A
Atalante	C	2.747	0.305	37.24 billion	2.40 billion		0.959267	MB A
Lumen	Ch	2.664	0.215	71.13 billion	4.59 billion		1.117740	MB A
Io	B	2.652	0.195	19.54 billion	1.26 billion		1.151400	MB A
Nanon	Xk	2.712	0.066	>100 trillion	>100 trillion	10.364	1.531010	MB A
Aoba	C	2.751	0.048	>100 trillion	>100 trillion	10.153	1.638230	MB A
Albanese	Xk	2.759	0.073	>100 trillion	>100 trillion	10.144	1.581200	MB A
Bogoslovskij	C <sub>g</sub> h	2.739	0.159	>100 trillion	90.74 trillion	10.429	1.320810	MB A
Shimizu	X	2.769	0.142	>100 trillion	>100 trillion	10.224	1.388490	MB A
Vanadis	C	2.664	0.208	21.27 billion	1.37 billion		1.123240	MB A
Feodosia	Ch	2.733	0.181	>100 trillion	>100 trillion	10.571	1.228000	MB A
Apollonia	Ch	2.877	0.153	>100 trillion	>100 trillion	9.870	1.452960	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Postrema	B	2.738	0.204	>100 trillion	>100 trillion	10.672	1.218460	MB A
Brita	Xk	2.804	0.109	>100 trillion	>100 trillion	10.039	1.515790	MB A
Maja	Ch	2.646	0.173	>100 trillion	>100 trillion		1.199900	MB A
Estonia	Xc	2.767	0.070	>100 trillion	>100 trillion	10.134	1.573700	MB A
Omsk	X	2.797	0.131	>100 trillion	41.56 trillion	10.111	1.430320	MB A
Manas	L	2.739	0.031	>100 trillion	37.39 trillion	10.234	1.650310	MB A
Neva	Ch	2.755	0.095	>100 trillion	>100 trillion	10.232	1.511780	MB A
Erna	P	2.920	0.179	>100 trillion	>100 trillion	9.832	1.392090	MB A
Dike	Xk	2.666	0.195	>100 trillion	>100 trillion		1.137990	MB A
Wawel	X	2.777	0.066	>100 trillion	79.96 trillion	10.120	1.599830	MB A
Piironen	X	2.719	0.118	>100 trillion	>100 trillion	10.517	1.416830	MB A
1988 CJ	K	2.760	0.041	>100 trillion	>100 trillion	10.185	1.639970	MB A
Aschera	Xc	2.611	0.031	>100 trillion	>100 trillion		1.547780	MB A
Tornio	T	2.716	0.118	25.67 billion	1.88 billion	10.579	1.452360	MB A
Rhodope	Xe	2.685	0.212	>100 trillion	>100 trillion		1.161060	MB A
Daguerre	X	2.778	0.099	>100 trillion	86.37 trillion	10.197	1.533380	MB A
Herba	C	2.996	0.323	>100 trillion	>100 trillion	10.085	1.089120	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Lorre	C	2.746	0.276	>100 trillion	>100 trillion	11.944	1.097420	MB A
DuBridge	C	2.729	0.275	>100 trillion	9.26 trillion	13.664	1.127390	MB A
Gondola	X	2.707	0.068	>100 trillion	14.94 trillion	10.565	1.510590	MB A
Varsavia	Xc	2.665	0.189	>100 trillion	>100 trillion	12.966	1.320260	MB A
Zibiturtle	C	2.783	0.045	>100 trillion	>100 trillion	10.158	1.641210	MB A
1990 SU10	Cb	2.790	0.062	>100 trillion	>100 trillion	10.147	1.630660	MB A
Siegma	Xc	2.749	0.035	>100 trillion	62.81 trillion	10.318	1.674970	MB A
Taiwan	C	2.788	0.049	>100 trillion	>100 trillion	10.158	1.664750	MB A
Penelope	X	2.680	0.180	>100 trillion	>100 trillion		1.187970	MB A
Alex	X	2.785	0.069	>100 trillion	8.83 trillion	10.192	1.612870	MB A
Astrid	C	2.787	0.045	>100 trillion	>100 trillion	10.168	1.644310	MB A
Lamberta	Ch	2.727	0.242	28.06 billion	1.81 billion		1.063960	MB A
Daphne	Ch	2.760	0.275	54.40 billion	3.51 billion		1.026330	MB A
Ilsebill	C	2.772	0.083	>100 trillion	>100 trillion	10.288	1.547860	MB A
Tina	X	2.794	0.250	>100 trillion	>100 trillion	10.857	1.147650	MB A
Ianthe	Ch	2.688	0.187	9.89 billion	637.28 million		1.201840	MB A
Emel'yanov	X	2.744	0.005	>100 trillion	22.12 trillion	10.384	1.719990	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Heiskanen	C	3.163	0.277	>100 trillion	>100 trillion	9.606	1.275600	MB A
Chaumont	X	2.738	0.014	>100 trillion	41.53 trillion	10.421	1.686620	MB A
Divis	X	2.749	0.013	>100 trillion	18.17 trillion	10.359	1.702330	MB A
Lederle	C	2.728	0.132	>100 trillion	>100 trillion	10.727	1.400140	MB A
Northcott	X	2.742	0.016	>100 trillion	68.53 trillion	10.422	1.684130	MB A
Dermott	B	2.799	0.103	>100 trillion	>100 trillion	10.229	1.507580	MB A
Vladimir	B	2.711	0.058	>100 trillion	>100 trillion	10.706	1.594520	MB A
Eukrate	Xc	2.741	0.245	>100 trillion	>100 trillion		1.154890	MB A
1990 RO1	C	2.790	0.059	>100 trillion	>100 trillion	10.214	1.644230	MB A
Xanthippe	Ch	2.727	0.227	55.95 billion	3.61 billion		1.102390	MB A
Adeona	Ch	2.675	0.144	13.03 billion	839.44 million		1.323020	MB A
Podobed	T	2.789	0.041	5.65 billion	428.56 million	10.190	1.681550	MB A
Oceana	M	2.645	0.044	>100 trillion	>100 trillion		1.520340	MB A
Eugenisis	Ch	2.793	0.059	>100 trillion	>100 trillion	10.225	1.638330	MB A
Hoffmeister	Cb	2.788	0.042	>100 trillion	>100 trillion	10.236	1.655490	MB A
Asterope	K	2.660	0.099	>100 trillion	>100 trillion		1.399840	MB A
Alexandra	C	2.710	0.197	52.69 billion	3.40 billion		1.161470	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Jeffbell	Ch	2.791	0.093	>100 trillion	>100 trillion	10.300	1.529820	MB A
Bowman	Xc	2.781	0.032	>100 trillion	91.88 trillion	10.279	1.678350	MB A
Kassandra	Xk	2.679	0.135	>100 trillion	>100 trillion		1.326010	MB A
Corduba	C	2.802	0.157	>100 trillion	>100 trillion	10.417	1.379230	MB A
Jennabelle	X	2.788	0.138	>100 trillion	12.69 trillion	10.442	1.428580	MB A
Herriot	B	2.786	0.033	>100 trillion	>100 trillion	10.281	1.713950	MB A
Migaic	Xc	2.781	0.067	>100 trillion	37.23 trillion	10.343	1.619490	MB A
Yvonne	C	2.766	0.270	>100 trillion	>100 trillion	13.717	1.155820	MB A
Frigga	Xe	2.668	0.132	1.74 billion	112.37 million		1.329080	MB A
Angelina	Xe	2.681	0.126	>100 trillion	>100 trillion		1.360020	MB A
Siwa	Xc	2.734	0.214	>100 trillion	>100 trillion		1.132900	MB A
Euripides	C	2.782	0.022	>100 trillion	37.29 trillion	10.339	1.741840	MB A
Occidental	L	2.803	0.078	>100 trillion	38.25 trillion	10.306	1.577370	MB A
Isakovskij	C	2.783	0.012	>100 trillion	>100 trillion	10.352	1.738310	MB A
Voronikhin	Ch	2.848	0.185	>100 trillion	>100 trillion	10.372	1.363600	MB A
Winchester	C	3.006	0.339	>100 trillion	>100 trillion	10.423	1.088250	MB A
Ada	X	2.966	0.178	>100 trillion	>100 trillion	9.913	1.454610	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Circe	Ch	2.687	0.106	31.42 billion	2.02 billion		1.4143 50	MB A
Bobone	Xe	2.781	0.082	>100 trillion	41.01 trillion	10.5 00	1.5687 30	MB A
Ino	Xk	2.743	0.209	6.03 billion	388.52 million		1.1963 70	MB A
Bathilde	Xk	2.807	0.080	>100 trillion	>100 trillion	10.3 59	1.6007 90	MB A
Haremari	L	2.767	0.149	>100 trillion	>100 trillion	10.8 88	1.4347 90	MB A
Irma	Ch	2.774	0.234	>100 trillion	>100 trillion		1.1282 70	MB A
Pallas	B	2.772	0.230	1.78 trillion	114.54 billion		1.2332 40	MB A
Kalahari	L	2.855	0.144	>100 trillion	>100 trillion	10.2 78	1.4538 90	MB A
Ksana	B	2.871	0.330	>100 trillion	43.76 trillion	13.1 48	1.0581 50	MB A
Galatea	C	2.783	0.236	52.85 billion	3.40 billion		1.1244 30	MB A
Lise	X	2.757	0.072	>100 trillion	>100 trillion	10.7 71	1.5855 10	MB A
Elpis	B	2.712	0.119	29.89 billion	1.93 billion		1.3937 80	MB A
Phaeo	X	2.781	0.246	1.86 billion	120.08 million		1.1101 60	MB A
Mandeville	X	2.737	0.144	>100 trillion	>100 trillion	11.5 51	1.3881 90	MB A
Stampfer	X	2.804	0.055	>100 trillion	11.54 trillion	10.4 25	1.6401 80	MB A
Kleopatra	Xe	2.794	0.251	4.65 billion	299.54 million		1.0991 10	MB A
Deborah	B	2.816	0.050	>100 trillion	>100 trillion	10.3 67	1.6590 70	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Hale	Ch	2.870	0.223	>100 trillion	>100 trillion	10.590	1.269410	MB A
Isabella	Cb	2.722	0.124	29.36 billion	1.89 billion		1.395080	MB A
Concordia	Ch	2.700	0.043	>100 trillion	>100 trillion		1.586330	MB A
Leda	C <sub>g</sub> <sub>h</sub>	2.739	0.155	49.23 billion	3.17 billion		1.332320	MB A
Transvaalia	X	2.768	0.083	>100 trillion	>100 trillion	10.869	1.564390	MB A
Arkipova	Xk	2.757	0.079	>100 trillion	>100 trillion	10.992	1.554700	MB A
Niobe	Xe	2.757	0.173	>100 trillion	>100 trillion		1.409540	MB A
Ursina	X	2.797	0.106	>100 trillion	>100 trillion	10.730	1.491300	MB A
Eunike	C	2.738	0.129	33.29 billion	2.14 billion		1.417170	MB A
Eugenia	C	2.721	0.084	50.26 billion	3.24 billion		1.490600	MB A
Dynamene	Ch	2.740	0.132	92.25 billion	5.94 billion		1.400890	MB A
Lucina	Ch	2.718	0.067	>100 trillion	>100 trillion		1.531880	MB A
Kurchenko	Xc	2.768	0.120	>100 trillion	66.18 trillion	11.196	1.445690	MB A
Fini	C	2.748	0.103	>100 trillion	>100 trillion	11.514	1.464530	MB A
Lilaea	B	2.753	0.145	>100 trillion	>100 trillion		1.338010	MB A
Ingelehmenn	Xc	2.744	0.083	>100 trillion	23.26 trillion	11.470	1.501390	MB A
Thoma	L	2.784	0.136	>100 trillion	76.36 trillion	11.151	1.409220	MB A



Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Bavaria	C	2.726	0.067	>100 trillion	>100 trillion		1.5295 20	MB A
Lydia	X	2.731	0.081	>100 trillion	>100 trillion		1.5080 70	MB A
Una	C	2.728	0.067	>100 trillion	>100 trillion		1.5591 90	MB A
Frieden	C	2.787	0.081	>100 trillion	>100 trillion	10.8 63	1.5765 00	MB A
Elisabetha	C	2.763	0.043	>100 trillion	>100 trillion	11.0 53	1.6834 00	MB A
Marcelle	Cg	2.784	0.006	>100 trillion	>100 trillion	10.7 85	1.7806 30	MB A
Orlov	K	2.926	0.120	>100 trillion	>100 trillion	10.1 23	1.5599 00	MB A
Nemesis	C	2.750	0.127	61.31 billion	3.95 billion		1.4085 90	MB A
Sapientia	C	2.770	0.164	>100 trillion	>100 trillion		1.3239 30	MB A
Minerva	C	2.756	0.139	30.17 billion	1.94 billion		1.3753 00	MB A
Thisbe	B	2.769	0.162	117.40 billion	7.56 billion		1.3089 40	MB A
Watsonia	L	2.759	0.098	>100 trillion	>100 trillion	11.3 92	1.5646 90	MB A
Pandora	X	2.760	0.143	>100 trillion	>100 trillion		1.3656 60	MB A
Hercynia	L	2.993	0.242	>100 trillion	>100 trillion	10.2 42	1.3214 50	MB A
Sechenov	B	2.760	0.164	>100 trillion	>100 trillion	14.8 39	1.3167 00	MB A
Honorina	L	2.797	0.191	>100 trillion	>100 trillion		1.2599 30	MB A
Zerlina	B	2.786	0.197	>100 trillion	>100 trillion	14.1 77	1.3398 20	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Juewa	X	2.782	0.175	6.76 billion	435.22 million		1.304190	MB A
Liberatrix	X	2.744	0.078	>100 trillion	>100 trillion		1.518810	MB A
Rhoda	Xk	2.803	0.161	>100 trillion	>100 trillion	11.360	1.462040	MB A
Olympiada	X	2.804	0.175	>100 trillion	>100 trillion	11.544	1.358620	MB A
Senrikyu	B	2.765	0.157	>100 trillion	>100 trillion	14.343	1.328110	MB A
Anneliese	Ch	2.926	0.154	>100 trillion	>100 trillion	10.271	1.464900	MB A
Hersilia	C	2.741	0.038	>100 trillion	>100 trillion		1.655290	MB A
Mombasa	Xc	2.811	0.141	>100 trillion	>100 trillion	11.121	1.473050	MB A
Sholokhov	L	2.790	0.117	>100 trillion	>100 trillion	11.274	1.527940	MB A
Polyxo	T	2.750	0.041	2.30 trillion	148.33 billion		1.625390	MB A
Johanna	Ch	2.755	0.067	26.55 billion	1.71 billion		1.603070	MB A
Hispania	C	2.839	0.140	>100 trillion	>100 trillion	10.889	1.433550	MB A
Adria	Xc	2.760	0.074	>100 trillion	>100 trillion		1.575910	MB A
Cornelia	C	2.887	0.060	>100 trillion	>100 trillion	10.343	1.719350	MB A
Toni	X	2.941	0.154	>100 trillion	>100 trillion	10.278	1.495220	MB A
Palomaa	Xk	2.788	0.079	>100 trillion	>100 trillion	11.296	1.629090	MB A
Ortrud	C	2.968	0.122	>100 trillion	>100 trillion	10.104	1.620160	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Ioffe	B	2.775	0.143	>100 trillion	>100 trillion	14.6 47	1.3972 80	MB A
Seraphina	P	2.900	0.131	>100 trillion	>100 trillion	10.4 53	1.5366 10	MB A
Tirza	D	2.775	0.099	36.48 billion	2.35 billion		1.4857 70	MB A
Ceres	C	2.769	0.076	8.12 trillion	522.92 billion		1.5947 80	MB A
Siri	Xk	2.773	0.088	>100 trillion	>100 trillion		1.5191 30	MB A
Aline	Ch	2.807	0.154	35.78 billion	2.30 billion		1.3895 10	MB A
Paeonia	C	3.123	0.216	>100 trillion	>100 trillion	9.89 5	1.4564 00	MB A
Terpsichore	Cb	2.854	0.211	53.29 billion	3.43 billion		1.2720 90	MB A
Martha	Ch	2.778	0.036	>100 trillion	>100 trillion		1.6813 90	MB A
Erida	X	3.057	0.199	>100 trillion	>100 trillion	10.0 71	1.4423 00	MB A
Sayama	X	2.851	0.131	>100 trillion	46.95 trillion	11.0 44	1.4730 10	MB A
Antonia	X	2.780	0.027	>100 trillion	>100 trillion		1.7261 70	MB A
Wilhelmina	Ch	2.882	0.141	>100 trillion	>100 trillion	10.8 07	1.4792 00	MB A
Don Quixote	D	4.259	0.709	1.42 billion	92.38 million	11.9 14	0.3335 24	AM O
Pannekoek	C <sub>g</sub> h	2.889	0.143	>100 trillion	>100 trillion	10.8 00	1.5419 70	MB A
Charis	X	2.901	0.058	>100 trillion	>100 trillion	10.4 93	1.7182 00	MB A
Lucifer	C <sub>g</sub> h	2.899	0.142	>100 trillion	>100 trillion	10.7 96	1.4766 00	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Solvejg	B	3.098	0.191	>100 trillion	>100 trillion	10.003	1.491460	MB A
Antigone	X	2.869	0.212	2.73 billion	175.45 million		1.280460	MB A
Burns	B	3.081	0.178	>100 trillion	>100 trillion	10.037	1.550490	MB A
Raybatson	X	2.850	0.097	>100 trillion	68.08 trillion	11.258	1.569760	MB A
Terentia	Ch	2.932	0.115	>100 trillion	>100 trillion	10.531	1.618700	MB A
Haidea	D	3.075	0.201	69.07 billion	5.26 billion	10.144	1.459930	MB A
Onnetoh	X	2.867	0.130	>100 trillion	18.12 trillion	11.328	1.536790	MB A
Scheila	T	2.929	0.163	4.42 trillion	315.73 billion	10.802	1.436920	MB A
Ginevra	P	2.922	0.058	>100 trillion	>100 trillion	10.607	1.773860	MB A
Budrosa	Xk	2.911	0.022	>100 trillion	>100 trillion	10.645	1.860070	MB A
Irmintraud	T	2.858	0.079	834.99 billion	56.48 billion	11.415	1.626370	MB A
Carmen	M	2.907	0.043	>100 trillion	>100 trillion	10.707	1.807990	MB A
Letaba	C	2.866	0.155	>100 trillion	>100 trillion	12.469	1.430160	MB A
Siegena	C	2.900	0.169	>100 trillion	>100 trillion	11.557	1.440160	MB A
Bardwell	B	3.118	0.182	>100 trillion	>100 trillion	10.044	1.559780	MB A
Kriemhild	Xc	2.861	0.122	>100 trillion	>100 trillion		1.558550	MB A
Pickeringia	C	3.097	0.243	>100 trillion	>100 trillion	10.340	1.358870	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Konkolya	C	3.119	0.182	>100 trillion	>100 trillion	10.055	1.548340	MB A
Beruti	C	3.088	0.161	>100 trillion	>100 trillion	10.105	1.607200	MB A
Pirola	C	3.120	0.181	>100 trillion	>100 trillion	10.054	1.544000	MB A
Carlova	C	3.008	0.176	>100 trillion	>100 trillion	10.508	1.521220	MB A
Bondia	B	3.122	0.182	>100 trillion	>100 trillion	10.064	1.548390	MB A
Borrelly	B	3.145	0.190	>100 trillion	>100 trillion	10.042	1.553060	MB A
Aglaja	B	2.881	0.130	34.60 billion	2.23 billion		1.496610	MB A
Sorga	Xe	2.988	0.141	>100 trillion	>100 trillion	10.560	1.583060	MB A
Athalia	Cb	3.120	0.175	>100 trillion	>100 trillion	10.086	1.586020	MB A
Berbericia	C <sub>g</sub> h	2.931	0.165	>100 trillion	>100 trillion	11.300	1.497980	MB A
Tekmessa	Xc	3.148	0.198	>100 trillion	>100 trillion	10.080	1.533990	MB A
Marianna	C	3.085	0.250	>100 trillion	>100 trillion	10.608	1.339390	MB A
Beethoven	C	3.151	0.191	>100 trillion	>100 trillion	10.066	1.566500	MB A
Hippo	C	2.890	0.105	>100 trillion	>100 trillion	11.768	1.624800	MB A
Huenna	C	3.143	0.180	>100 trillion	>100 trillion	10.087	1.569930	MB A
Eurykleia	Ch	2.878	0.044	>100 trillion	>100 trillion		1.775420	MB A
Hilaritas	B	3.090	0.140	>100 trillion	>100 trillion	10.200	1.671880	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Kolga	Cb	2.894	0.091	>100 trillion	>100 trillion		1.6462 10	MB A
Charlotte	Xe	3.057	0.154	>100 trillion	>100 trillion	10.4 02	1.6098 50	MB A
Naema	C	2.938	0.070	>100 trillion	>100 trillion	11.0 36	1.7536 10	MB A
Nephele	B	3.140	0.170	>100 trillion	>100 trillion	10.1 36	1.5950 20	MB A
Ute	X	3.052	0.182	>100 trillion	>100 trillion	10.5 96	1.5018 50	MB A
Hammonia	C	2.993	0.055	>100 trillion	>100 trillion	10.5 68	1.8442 10	MB A
Psyche	X	2.924	0.134	27.67 billion	1.78 billion		1.5358 00	MB A
Virtus	Ch	2.986	0.065	>100 trillion	>100 trillion	10.6 31	1.7829 50	MB A
May	X	2.968	0.070	>100 trillion	>100 trillion	10.7 86	1.7772 80	MB A
Rusthawelia	P	3.178	0.194	>100 trillion	>100 trillion	10.0 98	1.5756 80	MB A
Bathseba	K	3.022	0.133	>100 trillion	>100 trillion	10.5 97	1.6556 50	MB A
Leukothea	C	2.994	0.226	>100 trillion	>100 trillion		1.3199 80	MB A
Hypatia	Ch	2.907	0.090	37.42 billion	2.41 billion		1.6578 80	MB A
Edwin	Xe	2.983	0.065	>100 trillion	>100 trillion	10.6 82	1.8076 10	MB A
Valeria	L	2.977	0.123	>100 trillion	>100 trillion	10.9 29	1.6678 20	MB A
Janina	B	3.140	0.167	>100 trillion	>100 trillion	10.1 66	1.6270 20	MB A
Kalliope	X	2.915	0.098	7.88 billion	506.99 million		1.6432 10	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Charybdis	C	3.003	0.066	>100 trillion	>100 trillion	10.6 12	1.7964 00	MB A
Vilas	Ch	3.132	0.158	>100 trillion	>100 trillion	10.2 16	1.6203 50	MB A
Rauma	K	3.007	0.092	>100 trillion	>100 trillion	10.7 14	1.7320 60	MB A
Edisona	K	3.013	0.118	>100 trillion	>100 trillion	10.7 60	1.6807 80	MB A
Dodona	M	3.122	0.172	>100 trillion	>100 trillion	10.3 28	1.5908 00	MB A
Turandot	C	3.187	0.219	>100 trillion	>100 trillion	10.2 52	1.4770 70	MB A
Tatsuo	K	3.019	0.093	>100 trillion	>100 trillion	10.6 63	1.7358 80	MB A
Elyna	K	3.015	0.086	>100 trillion	>100 trillion	10.6 75	1.7771 80	MB A
Dorothea	K	3.013	0.098	>100 trillion	>100 trillion	10.7 38	1.7105 40	MB A
Tombaugh	Xc	3.024	0.102	>100 trillion	>100 trillion	10.6 83	1.7134 50	MB A
Whitemora	M	3.169	0.232	>100 trillion	>100 trillion	10.4 09	1.4620 50	MB A
Rarahu	K	3.017	0.108	>100 trillion	>100 trillion	10.7 72	1.6765 60	MB A
Schalen	D	3.094	0.116	15.81 billion	1.18 billion	10.3 50	1.7346 70	MB A
Tauris	C	3.153	0.307	>100 trillion	>100 trillion	11.3 67	1.2791 60	MB A
Hesperia	X	2.977	0.170	5.58 billion	358.91 million		1.5023 50	MB A
Thekla	Ch	3.046	0.062	>100 trillion	>100 trillion	10.5 10	1.8748 80	MB A
Jena	B	3.122	0.134	>100 trillion	>100 trillion	10.2 93	1.7184 20	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Centesima	K	3.014	0.084	>100 trillion	>100 trillion	10.784	1.779730	MB A
Koussevitzky	K	3.027	0.118	>100 trillion	>100 trillion	10.803	1.662540	MB A
Erminia	C	2.923	0.050	>100 trillion	>100 trillion	13.142	1.863930	MB A
Miune	X	3.007	0.067	>100 trillion	>100 trillion	10.833	1.837090	MB A
Theobalda	C	3.183	0.254	>100 trillion	>100 trillion	10.543	1.413040	MB A
Hannibal	Ch	3.125	0.220	>100 trillion	>100 trillion	10.681	1.460270	MB A
Marlu	P	3.110	0.237	>100 trillion	>100 trillion	11.027	1.403040	MB A
Pieters	K	3.022	0.097	>100 trillion	>100 trillion	10.887	1.721090	MB A
Washingtonia	C	3.170	0.270	>100 trillion	>100 trillion	10.834	1.360630	MB A
Sidonia	K	3.012	0.078	>100 trillion	>100 trillion	10.931	1.775460	MB A
Oriola	C	3.014	0.034	>100 trillion	>100 trillion	10.816	1.908000	MB A
Laurentia	Ch	3.017	0.181	>100 trillion	>100 trillion		1.489850	MB A
Nuwa	Cb	2.983	0.123	15.32 billion	985.08 million		1.611670	MB A
Adzhimushkaj	K	3.005	0.045	>100 trillion	>100 trillion	11.071	1.884980	MB A
Angelica	Xc	3.154	0.282	>100 trillion	>100 trillion	11.446	1.327070	MB A
Makarenko	Xc	3.012	0.061	>100 trillion	63.11 trillion	11.060	1.815700	MB A
Ruth	M	3.015	0.036	>100 trillion	>100 trillion	10.968	1.901310	MB A



Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Cloelia	K	3.018	0.035	>100 trillion	>100 trillion	10.976	1.923600	MB A
Tergeste	L	3.016	0.083	>100 trillion	>100 trillion	11.147	1.809490	MB A
Zhangguoxi	K	3.018	0.032	>100 trillion	>100 trillion	11.013	1.921630	MB A
Freda	C	3.129	0.271	>100 trillion	>100 trillion	12.155	1.392200	MB A
Berenike	K	3.014	0.040	>100 trillion	>100 trillion	11.142	1.916350	MB A
Natalie	C	3.132	0.188	>100 trillion	>100 trillion	10.722	1.566820	MB A
Millis	B	3.128	0.103	>100 trillion	>100 trillion	10.431	1.820020	MB A
Asta	C	3.071	0.144	>100 trillion	>100 trillion	11.004	1.641110	MB A
Interamnia	B	3.058	0.155	644.19 billion	43.66 billion	11.379	1.657370	MB A
Sniadeckia	C	3.002	0.005	>100 trillion	>100 trillion	11.494	1.972860	MB A
Norma	B	3.190	0.150	>100 trillion	>100 trillion	10.319	1.728270	MB A
Isolda	Ch	3.041	0.161	38.25 billion	2.46 billion		1.567380	MB A
Bernardina	X	3.143	0.154	>100 trillion	>100 trillion	10.580	1.682370	MB A
Eos	K	3.011	0.104	50.54 billion	3.25 billion		1.686810	MB A
Pafuri	X	3.128	0.143	>100 trillion	>100 trillion	10.634	1.665710	MB A
Chalonge	Ch	3.123	0.186	>100 trillion	>100 trillion	10.941	1.609260	MB A
Malabar	Ch	2.988	0.049	>100 trillion	>100 trillion	13.114	1.891020	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Lomia	X	2.990	0.028	5.97 billion	383.53 million		1.9233 30	MB A
Pales	Ch	3.105	0.222	48.99 billion	3.15 billion		1.4246 30	MB A
Quintilla	M	3.182	0.138	>100 trillion	>100 trillion	10.3 82	1.7378 70	MB A
Tanete	C	2.999	0.092	>100 trillion	>100 trillion	13.7 98	1.7354 00	MB A
Klotilde	C	3.173	0.161	>100 trillion	>100 trillion	10.5 09	1.6899 20	MB A
Ani	C	3.124	0.193	>100 trillion	>100 trillion	11.1 26	1.5139 20	MB A
Palma	B	3.150	0.259	>100 trillion	>100 trillion	11.9 88	1.4468 70	MB A
Isergina	C	3.141	0.120	>100 trillion	>100 trillion	10.5 61	1.7807 00	MB A
Semele	C	3.107	0.215	>100 trillion	>100 trillion		1.4490 80	MB A
Persephone	X	3.054	0.075	>100 trillion	>100 trillion	11.2 25	1.8312 90	MB A
Etheridgea	C	3.029	0.097	>100 trillion	>100 trillion		1.7309 10	MB A
The NORC	C	3.191	0.229	>100 trillion	>100 trillion	10.9 08	1.4994 30	MB A
Carnegia	Xk	3.093	0.067	>100 trillion	>100 trillion	10.8 36	1.9175 80	MB A
Arethusa	Ch	3.065	0.153	>100 trillion	>100 trillion		1.6121 90	MB A
Meliboea	C	3.123	0.212	65.95 billion	4.24 billion		1.4885 30	MB A
Germania	B	3.050	0.103	>100 trillion	>100 trillion		1.7365 10	MB A
Radek	D	3.182	0.210	7.29 billion	514.60 million	10.9 27	1.5591 30	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Elektra	Ch	3.125	0.209	56.90 billion	3.66 billion		1.5413 70	MB A
Diotima	C	3.066	0.036	>100 trillion	>100 trillion	11.2 24	1.9424 90	MB A
Eucharis	Xk	3.126	0.206	>100 trillion	>100 trillion		1.5268 60	MB A
Kreusa	C	3.167	0.158	>100 trillion	>100 trillion	10.7 91	1.7041 60	MB A
Lorraine	Xc	3.096	0.071	>100 trillion	>100 trillion	11.0 47	1.8867 90	MB A
Finsen	C	3.130	0.151	>100 trillion	>100 trillion	11.1 23	1.6585 00	MB A
Zappala	T	3.134	0.153	35.65 billion	2.47 billion	11.1 37	1.7111 50	MB A
Ara	M	3.146	0.201	>100 trillion	>100 trillion	11.5 75	1.5647 30	MB A
Davida	C	3.165	0.188	>100 trillion	>100 trillion	11.1 45	1.5930 70	MB A
Euphrosyne	Cb	3.155	0.221	143.32 billion	9.21 billion		1.5699 20	MB A
Melusina	C	3.121	0.138	>100 trillion	>100 trillion	11.2 76	1.6861 70	MB A
Lictoria	Xc	3.184	0.124	>100 trillion	>100 trillion	10.6 23	1.8059 00	MB A
Maritima	C	3.137	0.176	>100 trillion	>100 trillion	11.5 15	1.6814 80	MB A
Filipenko	C	3.181	0.204	>100 trillion	>100 trillion	11.2 16	1.6140 10	MB A
Messalina	Cb	3.203	0.170	>100 trillion	>100 trillion	10.7 48	1.6506 70	OM B
Andromache	Cg	3.183	0.233	>100 trillion	>100 trillion		1.4330 80	MB A
Fatme	X	3.124	0.052	>100 trillion	>100 trillion	10.9 92	1.9704 50	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Laodica	X	3.154	0.100	>100 trillion	>100 trillion	10.874	1.863850	MB A
Europa	C	3.093	0.110	220.94 billion	14.19 billion		1.769430	MB A
Ornamenta	C	3.111	0.159	>100 trillion	>100 trillion	12.702	1.641670	MB A
Imatra	C	3.111	0.095	>100 trillion	>100 trillion	11.469	1.855180	MB A
Erato	Ch	3.135	0.168	>100 trillion	>100 trillion		1.618610	MB A
Clara	L	3.197	0.123	>100 trillion	>100 trillion	10.719	1.831850	MB A
Bredichina	C	3.177	0.160	>100 trillion	>100 trillion	11.124	1.680710	MB A
Farinella	D	3.204	0.151	10.15 billion	723.18 million	10.812	1.720280	OM B
Aemilia	Ch	3.103	0.107	>100 trillion	>100 trillion		1.789270	MB A
Kamenyar	Ch	3.164	0.096	>100 trillion	>100 trillion	10.892	1.856530	MB A
Vundtia	C	3.142	0.077	>100 trillion	>100 trillion	11.104	1.920180	MB A
Ursula	Xc	3.128	0.105	>100 trillion	>100 trillion	11.524	1.789530	MB A
Klymene	Ch	3.145	0.161	>100 trillion	>100 trillion		1.655200	MB A
Antiope	C	3.150	0.166	>100 trillion	>100 trillion		1.613120	MB A
Veritas	Ch	3.172	0.094	>100 trillion	>100 trillion	10.910	1.874310	MB A
Ophelia	C	3.129	0.132	>100 trillion	>100 trillion		1.726120	MB A
Tanjiazhen	C	3.177	0.087	>100 trillion	>100 trillion	10.855	1.897360	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Thomana	Cgh	3.172	0.100	>100 trillion	>100 trillion	10.949	1.860470	MB A
Pulcova	C	3.153	0.106	>100 trillion	>100 trillion	11.201	1.835310	MB A
Byblis	X	3.166	0.180	>100 trillion	>100 trillion		1.578360	MB A
Nerthus	C	3.135	0.104	>100 trillion	>100 trillion	11.570	1.804760	MB A
Silesia	Ch	3.126	0.111	>100 trillion	>100 trillion		1.793590	MB A
Doris	Ch	3.110	0.072	57.85 billion	3.71 billion		1.908390	MB A
Vincentina	Ch	3.146	0.056	>100 trillion	>100 trillion	11.168	1.961050	MB A
Aletheia	X	3.133	0.129	7.81 billion	501.66 million		1.714960	MB A
Themis	B	3.136	0.125	52.83 billion	3.39 billion		1.758130	MB A
Bettina	Xk	3.143	0.135	>100 trillion	>100 trillion		1.770230	MB A
Nata	Ch	3.163	0.054	>100 trillion	>100 trillion	11.011	2.010660	MB A
Edna	C	3.197	0.197	>100 trillion	>100 trillion	11.942	1.669590	MB A
Tjossem	Cg	3.173	0.074	>100 trillion	>100 trillion	11.030	1.934320	MB A
Harris	T	3.122	0.068	4.59 billion	305.67 million	11.565	1.925480	MB A
Loreley	Cb	3.126	0.086	168.40 billion	10.81 billion		1.843140	MB A
Philippa	C	3.118	0.026	>100 trillion	>100 trillion	11.799	2.085950	MB A
Jean-Jacques	M	3.125	0.048	>100 trillion	>100 trillion	11.720	1.996430	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Hygiea	C	3.142	0.112	750.20 billion	48.17 billion		1.7783 90	MB A
Lachesis	C	3.120	0.052	>100 trillion	>100 trillion		1.9577 80	MB A
Aristophanes	Ch	3.169	0.052	>100 trillion	>100 trillion	11.0 64	2.0065 20	MB A
Iduna	Ch	3.181	0.171	>100 trillion	>100 trillion		1.6435 20	MB A
Gedania	C	3.195	0.097	>100 trillion	>100 trillion	10.9 86	1.8991 30	MB A
Brambilla	C <sub>g</sub> h	3.161	0.081	>100 trillion	>100 trillion	11.3 65	1.8985 90	MB A
Kharadze	Ch	3.173	0.056	>100 trillion	>100 trillion	11.1 57	2.0236 60	MB A
Dione	C <sub>g</sub> h	3.186	0.162	25.61 billion	1.64 billion		1.6763 40	MB A
Comacina	C	3.153	0.047	>100 trillion	>100 trillion	11.4 70	2.0102 50	MB A
Christa	Xc	3.205	0.087	>100 trillion	>100 trillion	10.9 95	1.9524 20	OM B
Aurora	C	3.157	0.094	60.78 billion	3.90 billion		1.8827 60	MB A
Sundmania	X	3.192	0.058	>100 trillion	>100 trillion	11.0 95	2.0138 70	MB A
Uzbekistania	Xk	3.195	0.067	>100 trillion	>100 trillion	11.0 94	2.0094 20	MB A
Leontina	X	3.203	0.069	>100 trillion	>100 trillion	11.0 25	1.9727 50	OM B
Protogeneia	C	3.141	0.026	106.04 billion	6.81 billion		2.0530 30	MB A
Spiridonia	P	3.171	0.075	>100 trillion	>100 trillion	11.7 29	1.9420 20	MB A
Dido	Xc	3.147	0.056	5.06 billion	324.78 million		1.9663 80	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Princetonia	C	3.163	0.008	>100 trillion	>100 trillion	11.705	2.127940	MB A
Heidelberga	M	3.216	0.157	>100 trillion	>100 trillion		1.736520	OM B
Arosa	X	3.196	0.118	>100 trillion	>100 trillion	11.985	1.822040	MB A
Caltech	Xc	3.172	0.105	>100 trillion	>100 trillion	14.284	1.948840	MB A
Aralia	Xk	3.212	0.112	>100 trillion	>100 trillion	11.575	1.923590	OM B
Helio	B	3.202	0.145	>100 trillion	>100 trillion	13.103	1.753380	OM B
Tugela	Xc	3.229	0.148	>100 trillion	>100 trillion	11.830	1.780020	OM B
Undina	Xc	3.186	0.105	4.88 billion	312.95 million		1.858360	MB A
Carina	C	3.189	0.087	>100 trillion	>100 trillion	12.113	1.952860	MB A
Myrrha	Cb	3.225	0.090	>100 trillion	>100 trillion	11.304	1.928420	OM B
Elfriede	C	3.191	0.070	>100 trillion	>100 trillion	11.930	1.980610	MB A
Dejopeja	X	3.188	0.066	>100 trillion	>100 trillion		1.979540	MB A
Bertha	C	3.196	0.077	71.69 billion	4.60 billion		1.952000	MB A
Kartvelia	Xc	3.217	0.117	>100 trillion	>100 trillion	12.037	1.834280	OM B
Alikoski	C	3.212	0.083	>100 trillion	>100 trillion	11.921	2.000210	OM B
Iclea	Ch	3.196	0.028	>100 trillion	>100 trillion		2.103860	MB A
Cincinnati	Xk	3.421	0.314	>100 trillion	48.90 trillion	15.198	1.634280	OM B

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Harimaya-Bashi	Xc	3.204	0.066	>100 trillion	>100 trillion	12.1 28	2.0132 90	OM B
Alauda	B	3.192	0.017	>100 trillion	>100 trillion	12.7 58	2.1208 00	MB A
Henrietta	C	3.394	0.264	>100 trillion	>100 trillion		1.5802 70	OM B
Gerda	L	3.225	0.032	>100 trillion	>100 trillion		2.1358 40	OM B
Tauntonia	Xk	3.210	0.034	>100 trillion	>100 trillion	12.9 17	2.1257 40	OM B
Stereoskopia	C	3.376	0.119	>100 trillion	>100 trillion	10.7 68	1.9789 50	OM B
Tchaikovsky	D	3.401	0.181	21.49 billion	1.49 billion	11.1 24	1.8043 70	OM B
Luscinia	C	3.404	0.157	>100 trillion	>100 trillion	10.9 71	1.8769 10	OM B
Kythera	T	3.422	0.119	725.75 billion	52.03 billion	10.7 35	2.0191 60	OM B
Lydina	C	3.406	0.106	>100 trillion	>100 trillion	11.1 39	2.0643 60	OM B
Tisiphone	C	3.352	0.092	>100 trillion	>100 trillion	12.2 97	2.1145 10	OM B
Herrick	C	3.439	0.126	>100 trillion	>100 trillion	11.0 31	2.0390 00	OM B
Scheherezade	P	3.363	0.057	>100 trillion	>100 trillion	11.7 52	2.2065 60	OM B
Dubiago	D	3.412	0.069	52.24 billion	3.63 billion	11.0 81	2.1670 10	OM B
Freia	X	3.413	0.166	5.14 billion	329.52 million		1.8646 10	OM B
Pretoria	P	3.408	0.152	>100 trillion	>100 trillion	12.2 63	1.8998 80	OM B
Sibylla	Ch	3.372	0.074	36.21 billion	2.32 billion		2.1259 50	OM B



Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Tone	P	3.360	0.051	>100 trillion	>100 trillion	12.2 21	2.2085 80	OM B
Riga	Cb	3.358	0.056	>100 trillion	>100 trillion	13.0 60	2.1762 10	OM B
Bertholda	P	3.415	0.030	>100 trillion	>100 trillion	11.3 09	2.3353 80	OM B
Cybele	Xc	3.426	0.112	15.79 billion	1.01 billion		2.0297 20	OM B
Hermione	Ch	3.452	0.132	43.45 billion	2.79 billion		2.0063 60	OM B
Abastumani	P	3.438	0.035	>100 trillion	>100 trillion	12.7 89	2.3255 90	OM B
Sylvia	X	3.483	0.093	14.73 billion	943.99 million		2.1736 90	OM B
Pushkin	D	3.497	0.031	14.16 billion	961.24 million	11.3 28	2.4055 60	OM B
Liriope	Cg	3.507	0.072	>100 trillion	>100 trillion	11.4 17	2.2756 40	OM B
Tabora	D	3.553	0.117	86.91 billion	5.99 billion	11.1 65	2.1442 10	OM B
Camilla	X	3.492	0.065	11.22 billion	719.15 million		2.2915 80	OM B
El Leoncito	D	3.634	0.042	31.17 billion	2.09 billion	11.4 83	2.4741 80	OM B
Kirkwood	D	3.923	0.240	21.67 billion	1.57 billion	10.6 29	1.9976 30	OM B
Mauderli	D	3.958	0.220	18.81 billion	1.34 billion	10.7 97	2.0735 90	OM B
Oda	D	3.756	0.092	37.16 billion	2.46 billion	11.5 79	2.4177 90	OM B
Simeisa	P	3.945	0.188	>100 trillion	>100 trillion	10.9 24	2.2201 40	OM B
Brouwer	D	3.950	0.208	50.77 billion	3.52 billion	11.0 85	2.1345 80	OM B

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Venusia	P	4.006	0.216	>100 trillion	>100 trillion	10.834	2.156190	OMB
Francette	X	3.951	0.191	>100 trillion	>100 trillion	11.123	2.211800	OMB
Aksnes	P	3.964	0.182	>100 trillion	>100 trillion	10.987	2.261900	OMB
Schubart	P	3.973	0.171	>100 trillion	>100 trillion	11.021	2.311460	OMB
Hidalgo	D	5.741	0.661	11.40 billion	576.08 million	15.188	1.150400	CEN
Bus	T	3.969	0.161	32.62 billion	2.25 billion	11.130	2.323640	OMB
Duboshin	D	3.961	0.157	26.16 billion	1.80 billion	11.171	2.346850	OMB
Rollandia	D	3.902	0.100	239.75 billion	16.26 billion	11.316	2.524490	OMB
Cunningham	P	3.943	0.170	>100 trillion	>100 trillion	11.572	2.284870	OMB
Normannia	D	3.897	0.079	66.05 billion	4.43 billion	11.447	2.583350	OMB
Oulu	P	3.959	0.144	>100 trillion	>100 trillion	11.295	2.382420	OMB
Larissa	P	3.932	0.107	>100 trillion	>100 trillion	11.291	2.497860	OMB
Rita	P	3.996	0.158	>100 trillion	>100 trillion	11.298	2.351440	OMB
Chicago	C	3.890	0.024	>100 trillion	>100 trillion	11.704	2.782950	OMB
Ismene	X	3.986	0.166	>100 trillion	>100 trillion		2.346620	OMB
Bowell	D	3.955	0.093	23.59 billion	1.57 billion	11.529	2.591180	OMB
Libya	P	3.974	0.102	>100 trillion	>100 trillion	11.414	2.588800	OMB

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Hilda	X	3.980	0.140	>100 trillion	>100 trillion		2.4104 10	OMB
Thule	X	4.283	0.040	>100 trillion	>100 trillion		3.1284 90	OMB
Priamus	D	5.182	0.123	214.62 billion	13.38 billion	12.2 63	3.5316 60	TJN
Peiroos	D	5.147	0.077	136.25 billion	8.04 billion	12.9 53	3.7344 40	TJN
Pandarus	D	5.182	0.069	85.09 billion	5.32 billion	12.2 28	3.8164 20	TJN
Deiphobus	D	5.127	0.044	343.23 billion	17.66 billion	14.8 53	3.8827 10	TJN
Antenor	D	5.150	0.016	193.48 billion	11.73 billion	12.6 10	4.0890 60	TJN
Antilochus	D	5.132	0.052	267.86 billion	13.55 billion	15.1 06	3.8745 50	TJN
Mentor	X	5.143	0.070	>100 trillion	>100 trillion	14.3 45	3.8195 30	TJN
Patroclus	P	5.216	0.138	>100 trillion	>100 trillion	13.6 28	3.5405 00	TJN
Alcathous	D	5.180	0.067	305.20 billion	17.63 billion	13.2 30	3.8684 70	TJN
Paris	T	5.221	0.127	1.82 trillion	94.84 billion	14.6 41	3.5646 20	TJN
Aneas	D	5.219	0.104	341.49 billion	19.96 billion	13.0 75	3.6861 00	TJN
Phereclos	D	5.212	0.046	176.01 billion	10.88 billion	12.3 59	3.9602 10	TJN
Anchises	P	5.292	0.138	>100 trillion	>100 trillion	12.1 21	3.5521 20	TJN
Odysseus	D	5.248	0.090	312.85 billion	19.62 billion	12.1 86	3.7953 10	TJN
Cebriones	D	5.213	0.037	183.66 billion	8.83 billion	15.8 99	4.0578 80	TJN

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
Hektor	D	5.260	0.023	2.37 trillion	132.44 billion	13.653	4.145130	TJN
Agamemnon	D	5.278	0.066	467.42 billion	25.59 billion	13.956	4.020130	TJN
Chiron	Cb	13.669	0.380	>100 trillion	>100 trillion	11.922	7.471030	CEN
Chariklo	D	15.842	0.171	5.72 trillion	305.43 billion	14.258	12.211300	CEN
2002 EC	X	2.149	0.519	48.34 million	8.21 million	5.977	0.044509	AMO
Golevka	Q	2.502	0.605	35.51 million	5.03 million	6.441	0.028050	APO (PHA)
1991 BN	Q	1.443	0.398	33.42 million	6.97 million	5.571	0.020635	APO (PHA)
1999 VQ5	Q	2.422	0.433	29.07 million	1.64 million	13.739	0.400216	MC A
2000 PG3	D	2.824	0.856	15.39 million	1.07 million	11.205	0.210137	APO
2002 AL31	X	1.177	0.248	10.58 million	2.41 million	5.412	0.012816	APO
1984 BC	D	3.494	0.533	8.16 million	610347.4186731597	10.340	0.696671	OMB
2000 AC6	Q	0.853	0.286	1.30 million	148811.88649098628	7.317	0.046069	ATE (PHA)
2001 SK162	T	1.926	0.474	726094.4661377894	148518.8733147989	5.598	0.029371	APO (PHA)
2001 AE2	T	1.350	0.082	132253.45366384918	28914.585070637186	5.485	0.233602	AMO
Aegle	T	3.051	0.141	61959.999999999999	3981.251332567333		1.641370	MB A

Name	Type	a (AU)	e	Value (\$)	Est. Profit (\$)	$\Delta v$ (km/s)	MOID (AU)	Group
2001 UU92	T	3.171	0.668	38142.31267638344	4300.143475881483	7.287	0.118818	AMO
2001 YE1	T	1.912	0.501	14501.302830704335	2547.227036770019	5.905	0.059394	APO
2001 SG286	D	1.358	0.347	2420.770464723525	486.88162686684234	5.640	0.005336	APO (PHA)
2002 AT4	D	1.867	0.446	1599.3871851731303	334.4927518515527	5.557	0.042987	AMO (PHA)
Herculina	S	2.773	0.175	0	0	10.733	1.354400	MB A
Eleonora	Sl	2.799	0.114	0	0	11.417	1.492900	MB A
Papagena	S	2.894	0.229	0	0	10.450	1.267260	MB A
Dembowska	R	2.923	0.092	0	0	10.493	1.657380	MB A
Harmonia	S	2.267	0.047	0	0		1.161590	MB A
Fides	S	2.642	0.176	0	0		1.194420	MB A
Rachele	S	2.923	0.195	0	0	10.484	1.385960	MB A
Alkeste	S	2.631	0.075	0	0		1.419660	MB A
Hermentaria	S	2.796	0.102	0	0	10.286	1.531230	MB A
Hekate	S	3.087	0.169	0	0		1.549870	MB A
Vaticana	Sl	2.792	0.218	0	0	10.088	1.171680	MB A
Hera	S	2.702	0.079	0	0		1.474640	MB A

Pomona	S	2.589	0.0 81	0	0		1.3770 40	MB A
Thyra	S	2.380	0.1 93	0	0		0.9696 38	MB A
Ludmilla	S	2.769	0.2 04	0	0	9.81 7	1.2218 30	MB A
Vera	S	3.096	0.1 96	0	0		1.4952 10	MB A
Hecuba	Sl	3.237	0.0 55	0	0		2.0567 80	OM B
Industria	S	2.608	0.0 67	0	0	10.0 72	1.4510 30	MB A
Cyrene	S	3.064	0.1 35	0	0		1.6456 40	MB A
Sirona	Sk	2.766	0.1 42	0	0		1.3861 70	MB A
Sappho	S	2.296	0.2 00	0	0		0.8428 72	MB A
Helena	S	2.584	0.1 40	0	0		1.2114 50	MB A
Phaedra	S	2.862	0.1 41	0	0		1.4749 30	MB A
Tyche	S	2.616	0.2 04	0	0		1.0881 70	MB A
Genua	S	2.749	0.1 92	0	0	10.2 76	1.2869 90	MB A
Eurynome	S	2.447	0.1 90	0	0		0.9919 80	MB A
Libussa	S	2.797	0.1 37	0	0		1.4216 50	MB A
Alkmene	Sq	2.763	0.2 20	0	0		1.1709 20	MB A
Alphonsina	S	2.702	0.0 79	0	0	11.9 39	1.5109 50	MB A
Althaea	Sl	2.581	0.0 80	0	0		1.3739 20	MB A

Ampella	S	2.459	0.2 27	0	0	0.9238 75	MB A	
Semiramis	Sl	2.374	0.2 33	0	0	8.97 9	0.8548 59	MB A
Cyane	S	2.809	0.0 98	0	0	10.3 58	1.5660 80	MB A
Suleika	Sl	2.712	0.2 36	0	0	9.58 8	1.0901 80	MB A
Bohemia	S	2.728	0.0 65	0	0	10.2 42	1.5354 60	MB A
Iolanda	S	3.064	0.0 95	0	0	11.4 25	1.7797 30	MB A
Philippina	S	2.793	0.0 82	0	0	11.6 66	1.6487 00	MB A
Amalthea	S	2.376	0.0 87	0	0		1.1731 10	MB A
Arequipa	S	2.590	0.2 45	0	0	9.53 3	0.9634 54	MB A
Pythia	S	2.369	0.1 46	0	0	9.60 4	1.0066 50	MB A
Pierretta	Sk	2.782	0.1 60	0	0		1.3435 00	MB A
Justitia	Ld	2.616	0.2 13	0	0		1.0483 80	MB A
Brunhild	S	2.695	0.1 20	0	0		1.3919 60	MB A
Burgundia	S	2.780	0.0 80	0	0	10.3 86	1.5492 00	MB A
Marconia	Ld	3.063	0.1 32	0	0	10.2 24	1.6549 10	MB A
Coelestina	S	2.763	0.0 71	0	0		1.5520 00	MB A
Peitho	S	2.437	0.1 65	0	0		1.0559 10	MB A
Sylvania	S	2.791	0.1 83	0	0	10.0 76	1.2961 30	MB A

Lacrimosa	Sk	2.892	0.0 12	0	0	1.8738 70	MB A	
Urda	Sk	2.852	0.0 37	0	0	1.7300 30	MB A	
Elsa	S	2.416	0.1 86	0	0	0.9782 60	MB A	
Abundantia	Sl	2.592	0.0 33	0	0	1.5134 30	MB A	
Koronis	S	2.871	0.0 52	0	0	1.7355 20	MB A	
Abnoba	S	2.789	0.1 79	0	0	10.4 85	1.2797 00	MB A
Ganymed	S	2.664	0.5 33	0	0	10.3 69	0.3434 97	AM O
Edda	S	2.814	0.0 11	0	0	10.4 00	1.8016 80	MB A
Zelia	Sl	2.358	0.1 31	0	0	1.0393 00	MB A	
Pepita	S	3.069	0.1 11	0	0	11.4 11	1.7632 20	MB A
Phyllis	S	2.464	0.1 04	0	0	9.41 5	1.2259 10	MB A
Bandusia	S	2.670	0.1 45	0	0	10.2 66	1.3010 20	MB A
Ottegebe	S	2.801	0.1 94	0	0	9.74 3	1.2573 70	MB A
Belisana	S	2.461	0.0 43	0	0	1.3386 20	MB A	
Menippe	S	2.761	0.1 79	0	0	1.2831 40	MB A	
Planckia	S	3.127	0.1 10	0	0	11.2 00	1.7992 40	MB A
Geometria	Sl	2.289	0.1 72	0	0	8.67 9	0.8834 98	MB A
Burdigala	S	2.651	0.1 49	0	0	9.58 6	1.2754 30	MB A



Turnera	Sq	3.021	0.1 01	0	0	10.8 07	1.7296 90	MB A
Eriophyla	S	2.872	0.0 88	0	0	10.1 61	1.6163 50	MB A
Bohlinia	Sq	2.886	0.0 19	0	0	10.4 70	1.8429 20	MB A
Margarita	S	2.762	0.1 13	0	0		1.4488 30	MB A
Zelima	S	3.019	0.0 84	0	0	10.9 02	1.7565 60	MB A
Maria	S	2.554	0.0 64	0	0		1.4124 50	MB A
Istria	S	2.791	0.3 50	0	0		1.0095 10	MB A
Paulina	S	2.756	0.1 32	0	0		1.3956 50	MB A
Gretia	Sr	2.802	0.1 97	0	0	9.84 5	1.2615 10	MB A
Aaltje	Sl	2.954	0.0 51	0	0	10.7 51	1.8216 40	MB A
Nassovia	Sq	2.884	0.0 59	0	0	10.3 16	1.7296 30	MB A
Arete	S	2.738	0.1 64	0	0		1.2919 50	MB A
Weringia	S	2.712	0.2 04	0	0		1.1526 20	MB A
Merxia	Sq	2.744	0.1 29	0	0	9.81 1	1.4139 00	MB A
Sara	S	2.978	0.0 45	0	0	10.6 73	1.8404 80	MB A
Columbia	Sl	2.776	0.0 61	0	0		1.5987 20	MB A
Pittsburghia	S	2.667	0.0 58	0	0	10.6 65	1.4979 30	MB A
Arduina	S	2.764	0.2 27	0	0	9.42 5	1.1385 90	MB A

Crimea	S	2.772	0.1 13	0	0	10.7 64	1.4894 00	MB A
Glauke	S	2.762	0.2 05	0	0		1.1961 90	MB A
Jugurtha	S	2.722	0.0 17	0	0	10.5 96	1.6915 70	MB A
Theresia	S	2.795	0.1 71	0	0		1.3291 10	MB A
Punkaharju	S	2.785	0.2 59	0	0	10.3 06	1.0818 50	MB A
Florentina	S	2.885	0.0 47	0	0		1.7661 40	MB A
Holmia	S	2.776	0.1 30	0	0	9.98 5	1.4216 60	MB A
Kilia	S	2.405	0.0 94	0	0	9.46 3	1.1795 60	MB A
Franzia	S	2.803	0.0 82	0	0	10.9 35	1.6169 50	MB A
Gisela	Sl	2.194	0.1 50	0	0	8.45 5	0.8722 11	MB A
Arizona	S	2.795	0.1 25	0	0	10.9 56	1.4709 70	MB A
Ambrosia	Sk	2.603	0.2 97	0	0		0.8895 42	MB A
Barcelona	Sq	2.636	0.1 63	0	0	13.9 67	1.2302 40	MB A
Photographic a	Sl	2.215	0.0 41	0	0	9.08 0	1.1316 90	MB A
Musa	S	2.661	0.0 56	0	0	10.4 07	1.5148 80	MB A
Agnia	S	2.782	0.0 96	0	0	9.95 6	1.5244 00	MB A
Lysistrata	Sl	2.542	0.0 95	0	0	10.4 99	1.2900 80	MB A
Gabriella	S	2.537	0.1 06	0	0	9.50 8	1.2895 90	MB A

Tea	S	2.183	0.1 09	0	0	8.74 2	0.9391 55	MB A
Dresda	S	2.887	0.0 78	0	0		1.6639 80	MB A
Garumna	Sq	2.722	0.1 67	0	0		1.2838 40	MB A
Taurinensis	S	2.189	0.2 54	0	0	8.21 8	0.6510 93	MC A
Italia	S	2.416	0.1 88	0	0	8.88 8	0.9545 84	MB A
Xenia	Sa	2.644	0.2 28	0	0	9.69 5	1.0321 60	MB A
Komppa	Ld	2.699	0.0 96	0	0	10.5 18	1.4879 20	MB A
Esther	S	2.414	0.2 43	0	0	8.81 7	0.8567 82	MB A
Zeelandia	S	2.849	0.0 65	0	0	10.2 27	1.6497 70	MB A
Montana	S	2.535	0.0 61	0	0	9.72 5	1.3688 30	MB A
Otthild	S	2.529	0.1 16	0	0	10.5 18	1.2321 90	MB A
Berkeley	S	2.815	0.0 86	0	0	10.3 68	1.5818 80	MB A
Jose	S	2.860	0.0 80	0	0	10.1 70	1.6341 80	MB A
Gelria	S	2.741	0.1 07	0	0	10.0 31	1.4590 00	MB A
Eliane	S	2.617	0.1 73	0	0	10.2 38	1.1514 30	MB A
Kenya	S	2.405	0.2 63	0	0	8.89 5	0.7874 43	MB A
Celestia	S	2.694	0.2 08	0	0	13.9 83	1.2752 70	MB A
Laplace	S	2.646	0.1 16	0	0	10.2 58	1.3785 30	MB A

Schilt	S	2.548	0.1 72	0	0	10.0 80	1.1268 40	MB A
Dawn	S	2.869	0.0 27	0	0	10.4 28	1.7732 00	MB A
Shura	Sq	2.780	0.0 74	0	0	10.3 16	1.5667 20	MB A
Mineura	S	2.627	0.1 80	0	0	9.97 9	1.1813 20	MB A
Pawona	Sl	2.426	0.0 42	0	0	9.61 5	1.3279 70	MB A
Bohrmann	S	2.854	0.0 58	0	0	10.2 36	1.6756 60	MB A
Delvaux	S	2.870	0.0 46	0	0	10.3 08	1.7212 10	MB A
Ilmari	S	2.627	0.0 79	0	0	10.1 11	1.4272 00	MB A
Rosselia	Sa	2.857	0.0 89	0	0	10.1 21	1.6029 50	MB A
Hoffmann	Sr	2.743	0.1 72	0	0	9.57 1	1.2792 60	MB A
Michel	Sl	2.792	0.1 37	0	0	9.95 0	1.4268 60	MB A
Hill	S	2.752	0.0 66	0	0	10.5 75	1.5895 10	MB A
Proserpina	S	2.654	0.0 90	0	0		1.4028 70	MB A
Cetacea	Sq	2.534	0.1 56	0	0	10.3 06	1.2008 10	MB A
Ingeborg	S	2.320	0.3 05	0	0	10.4 01	0.6444 76	MC A
Heidi	S	2.792	0.0 93	0	0	10.2 39	1.5513 40	MB A
Hela	Sq	2.611	0.4 10	0	0	8.96 9	0.6244 87	MC A
Sumoto	S	2.743	0.1 22	0	0	10.8 44	1.4422 10	MB A

Mitaka	S	2.202	0.1 96	0	0	8.48 7	0.7800 79	MB A
Phocaea	S	2.400	0.2 55	0	0		0.9234 95	MB A
Liszt	S	2.794	0.1 33	0	0	10.1 24	1.4252 80	MB A
Guangdong	S	2.710	0.1 60	0	0	9.92 5	1.2881 20	MB A
Ries	Sk	2.772	0.2 25	0	0	10.5 11	1.2129 60	MB A
Scabiosa	S	2.768	0.0 42	0	0	10.1 98	1.6621 50	MB A
Unitas	S	2.358	0.1 51	0	0		0.9878 50	MB A
Gryphia	S	2.199	0.0 79	0	0	8.83 3	1.0448 70	MB A
Renzia	S	2.263	0.2 94	0	0	7.80 7	0.5853 75	MC A
Montefiore	Sl	2.180	0.0 39	0	0	9.05 6	1.1109 40	MB A
Ruperto- Carola	S	2.736	0.3 28	0	0	8.78 7	0.8565 71	MB A
Per Brahe	S	2.725	0.1 83	0	0	9.49 0	1.2154 30	MB A
Bauersfelda	S	2.906	0.1 00	0	0	10.1 58	1.6292 40	MB A
Manto	S	2.321	0.2 65	0	0	8.29 8	0.6930 23	MB A
Korhonen	S	2.608	0.1 24	0	0	10.5 19	1.2948 40	MB A
Grieve	S	2.605	0.3 83	0	0	11.3 69	0.7712 81	MC A
Talbot	S	2.764	0.1 36	0	0	11.4 31	1.4014 00	MB A
Thomsen	S	2.179	0.3 30	0	0	7.51 3	0.4439 41	MC A

Barbara	Ld	2.386	0.2 45	0	0	0.7916 83	MB A	
Massevitch	R	2.744	0.0 72	0	0	10.7 58	1.5796 40	MB A
Tynka	S	2.199	0.2 08	0	0	8.24 7	0.7281 05	MB A
Stavropolis	S	2.271	0.2 32	0	0	8.23 9	0.7280 39	MB A
Tanina	S	2.226	0.0 75	0	0	8.90 9	1.0552 10	MB A
Ashbrook	S	2.783	0.1 12	0	0	10.2 03	1.4750 30	MB A
Szmytowna	S	2.939	0.1 16	0	0	10.1 39	1.6099 70	MB A
Mehltretter	S	2.741	0.1 12	0	0	9.87 8	1.4217 90	MB A
Amundsenia	S	2.360	0.2 97	0	0	8.36 3	0.6463 92	MC A
Tsvetaeva	S	2.745	0.2 01	0	0	9.69 6	1.2251 30	MB A
Sanenobufuk ui	S	2.801	0.0 92	0	0	10.2 61	1.5613 80	MB A
Plovdiv	S	2.807	0.1 53	0	0	10.0 02	1.3732 00	MB A
Kotka	S	2.746	0.1 96	0	0	9.73 6	1.2438 60	MB A
Geramtina	S	2.796	0.1 71	0	0	9.90 2	1.3466 20	MB A
King	S	2.786	0.0 31	0	0	10.4 99	1.7015 00	MB A
Gothlandia	S	2.190	0.1 81	0	0	8.34 7	0.7938 23	MB A
West	S	2.707	0.1 18	0	0	9.84 4	1.3981 70	MB A
Alva	S	2.805	0.1 13	0	0	9.99 3	1.4797 30	MB A

Vysheslavia	S	2.829	0.0 21	0	0	10.3 44	1.7522 20	MB A
Bruce Helin	Sl	2.362	0.2 15	0	0	11.0 90	0.9180 53	MB A
Simferopol	Sl	2.804	0.1 30	0	0	9.96 8	1.4334 10	MB A
Jaroslawa	S	2.218	0.2 41	0	0	8.15 0	0.6818 93	MB A
Ukyounodai bu	S	2.810	0.2 16	0	0	9.86 8	1.2413 20	MB A
Kahrstedt	Sa	2.547	0.1 53	0	0	9.50 6	1.1890 80	MB A
Miahelena	S	2.792	0.0 98	0	0	10.3 71	1.5313 50	MB A
Gaspra	S	2.210	0.1 74	0	0	8.40 2	0.8320 90	MB A
Cydonia	S	2.596	0.1 26	0	0	10.2 66	1.2923 60	MB A
Echo	S	2.392	0.1 85	0	0		0.9717 24	MB A
Universitas	S	2.216	0.1 54	0	0	8.58 4	0.8778 64	MB A
Naudts	Sl	2.762	0.0 59	0	0	10.2 51	1.5886 20	MB A
Tokiwagoze n	S	2.744	0.0 58	0	0	11.3 05	1.5683 60	MB A
Grubba	S	2.196	0.1 88	0	0	8.27 4	0.7743 12	MB A
Nikonov	S	2.814	0.1 59	0	0	10.0 60	1.3648 10	MB A
Azalea	S	2.230	0.1 78	0	0	8.50 1	0.8215 21	MB A
Gehrels	Sq	2.627	0.0 18	0	0	10.0 44	1.5978 30	MB A
Dollfus	S	2.723	0.1 53	0	0	9.89 8	1.2965 90	MB A

Marshak	Sa	2.387	0.2 33	0	0	9.51 6	0.8435 41	MB A
Dulcinea	S	2.409	0.2 44	0	0	8.56 8	0.8277 09	MB A
Hildegard	Sl	2.731	0.3 71	0	0	8.83 4	0.7206 60	MB A
Zu Chong- Zhi	S	2.548	0.1 67	0	0	9.30 9	1.1451 20	MB A
Kyoto	S	2.760	0.1 98	0	0	9.95 7	1.2281 30	MB A
Huygens	S	2.802	0.1 71	0	0	10.0 18	1.3275 50	MB A
Vojislava	Sl	2.529	0.1 86	0	0	9.74 6	1.0722 90	MB A
Algunde	S	2.239	0.1 13	0	0	8.77 8	0.9713 51	MB A
Flagstaff	S	2.546	0.2 21	0	0	9.05 1	1.0104 50	MB A
Christy Carol	S	2.542	0.1 58	0	0	9.37 4	1.1656 80	MB A
Tito	S	2.544	0.3 14	0	0	8.71 2	0.7625 64	MB A
Lee	V	2.344	0.1 00	0	0	9.29 6	1.1235 30	MB A
Wood	S	2.395	0.3 01	0	0	10.0 61	0.8198 40	MB A
Vulkaneifel	S	2.617	0.1 93	0	0	10.0 42	1.1701 90	MB A
Klytaemnest ra	Sk	2.976	0.1 11	0	0		1.6532 90	MB A
Kraft	S	2.735	0.2 55	0	0	13.2 09	1.0690 50	MB A
Lecar	S	2.759	0.1 07	0	0	10.2 21	1.4671 60	MB A
Robinson	Sr	2.772	0.1 39	0	0	10.2 82	1.3956 40	MB A



Malzovia	S	2.244	0.1 73	0	0	8.56 0	0.8487 47	MB A
Nuki	S	2.801	0.1 44	0	0	10.0 66	1.4236 80	MB A
Lucretia	S	2.187	0.1 33	0	0		0.9069 03	MB A
Giacconi	Sq	2.738	0.0 13	0	0	10.6 88	1.6861 30	MB A
Tolkien	S	2.213	0.1 01	0	0	8.72 6	0.9867 38	MB A
Herget	S	2.789	0.1 75	0	0	9.86 3	1.3113 50	MB A
Ahrensa	Sa	2.372	0.1 58	0	0	11.4 59	1.0052 50	MB A
Jitka	Sr	2.792	0.0 57	0	0	10.1 98	1.6531 10	MB A
Amenemhet	S	2.715	0.2 04	0	0	10.2 62	1.1811 90	MB A
Atami	S	1.947	0.2 56	0	0	8.03 6	0.4704 00	MC A
Eric	S	2.001	0.4 49	0	0	7.70 9	0.1941 59	AM O
Zhejiang	S	2.797	0.1 62	0	0	10.0 60	1.3541 60	MB A
Ebilson	Sl	2.790	0.0 35	0	0	10.5 39	1.6779 80	MB A
Hakoila	Sq	2.719	0.1 76	0	0	9.51 9	1.2540 10	MB A
DiMaggio	Sa	2.604	0.1 37	0	0	10.3 07	1.2937 40	MB A
Gaviola	Sq	2.760	0.0 89	0	0	10.0 00	1.5216 20	MB A
Danjon	S	2.269	0.1 95	0	0	8.77 1	0.8201 67	MB A
Casarini	S	2.749	0.2 49	0	0	9.53 0	1.0630 50	MB A

Mount Locke	Sr	2.801	0.1 31	0	0	10.0 95	1.4208 40	MB A
Mikko	S	2.231	0.0 84	0	0	8.98 5	1.0592 30	MB A
Keithnoll	S	2.271	0.3 02	0	0	8.15 0	0.6194 57	MC A
Janesick	S	2.198	0.3 62	0	0	9.59 3	0.5930 34	MC A
Wurm	S	2.236	0.0 69	0	0	8.97 7	1.0908 10	MB A
Chekhov	S	2.782	0.0 47	0	0	10.1 81	1.6355 60	MB A
Plaskett	S	2.805	0.0 95	0	0	10.3 47	1.5376 90	MB A
1991 VZ1	S	2.764	0.0 64	0	0	10.5 70	1.6156 90	MB A
Suzhousanzhong	Sl	2.762	0.0 67	0	0	10.0 87	1.5876 40	MB A
Arcadia	S	2.789	0.0 44	0	0	10.2 52	1.6597 90	MB A
Rosina	S	2.300	0.2 77	0	0	8.06 3	0.6592 74	MC A
1998 WS	Sr	2.655	0.3 95	0	0	11.3 07	0.8455 03	MC A
Parker	Sl	2.350	0.3 43	0	0	10.0 01	0.7138 64	MC A
Byron	S	2.248	0.1 45	0	0	8.67 0	0.9110 19	MB A
Sitarski	Sq	2.753	0.1 51	0	0	9.74 4	1.3566 30	MB A
Principia	V	2.444	0.0 80	0	0	9.45 9	1.2623 80	MB A
Gaffey	Sa	2.872	0.0 57	0	0	10.2 93	1.6944 20	MB A
Roth	S	2.725	0.1 63	0	0	9.95 3	1.3098 60	MB A

Steyaert	S	2.790	0.1 05	0	0	10.3 39	1.5045 10	MB A
Belgica	S	2.236	0.1 44	0	0	8.65 5	0.9273 62	MB A
Kliment Ohridski	Sq	2.931	0.0 80	0	0	10.2 51	1.6798 50	MB A
Laodamia	Sr	2.392	0.3 51	0	0	7.92 3	0.5685 78	MC A
Livesey	S	2.699	0.1 82	0	0	10.0 83	1.2103 30	MB A
1990 TL4	Sq	2.804	0.1 69	0	0	9.91 3	1.3274 50	MB A
Peking	V	2.379	0.0 56	0	0	9.56 7	1.2435 40	MB A
Nancita	S	2.367	0.2 96	0	0	8.10 8	0.6811 42	MB A
Dzhanibekov	S	2.927	0.0 89	0	0	10.2 17	1.6861 00	MB A
Gondolatsch	S	2.226	0.0 78	0	0	8.96 6	1.0536 60	MB A
Sakitama	S	2.707	0.1 11	0	0	10.3 81	1.4550 00	MB A
Minamioda	S	2.796	0.1 51	0	0	10.1 57	1.3873 10	MB A
Sawyer Hogg	S	2.795	0.1 13	0	0	10.6 38	1.4956 40	MB A
Anitra	S	2.219	0.1 28	0	0	8.76 8	0.9533 01	MB A
Lagerkvist	S	2.796	0.1 04	0	0	10.3 00	1.5169 70	MB A
1982 VF	Sq	2.740	0.1 06	0	0	10.1 64	1.4477 80	MB A
Robertfrazer	S	2.408	0.3 40	0	0	9.94 4	0.7447 49	MC A
Perkin	S	2.928	0.0 65	0	0	10.3 52	1.7547 70	MB A

Espinette	Sl	2.284	0.2 78	0	0	8.01 3	0.6354 84	MC A
Kampala	S	2.534	0.1 69	0	0	9.26 9	1.1035 10	MB A
Bowen	Sq	2.777	0.1 02	0	0	9.94 2	1.5099 50	MB A
Yeomans	Sr	2.766	0.0 91	0	0	9.95 8	1.5028 70	MB A
Vellamo	S	2.309	0.0 30	0	0	9.67 8	1.2434 40	MB A
Agathe	S	2.202	0.2 42	0	0		0.6577 47	MB A
Tokai	S	2.225	0.0 69	0	0	8.96 9	1.0922 50	MB A
Otila	Sa	2.197	0.1 71	0	0	8.47 7	0.8056 76	MB A
Primula	S	2.560	0.2 71	0	0	8.73 2	0.8821 64	MB A
Slovakia	S	2.226	0.1 79	0	0	8.39 4	0.8310 88	MB A
Ivar	S	1.863	0.3 97	0	0	6.32 0	0.1116 10	AM O
Schaumasse	S	2.237	0.0 24	0	0	9.16 4	1.1846 10	MB A
Erbisbuhl	Sk	2.359	0.3 76	0	0	9.61 8	0.6407 56	MC A
Chivilikhin	S	2.783	0.1 71	0	0	9.99 0	1.3008 50	MB A
Beryl	S	2.230	0.1 01	0	0	8.76 3	0.9900 79	MB A
Ndola	S	2.246	0.1 62	0	0	8.77 6	0.8656 49	MB A
Porzia	S	2.229	0.2 86	0	0	7.79 9	0.5883 52	MC A
Bastian	Sl	2.454	0.1 68	0	0	9.26 4	1.0744 40	MB A

Purkyne	S	2.802	0.0 91	0	0	10.0 98	1.5628 70	MB A
Sax	S	2.753	0.1 95	0	0	9.66 2	1.2341 90	MB A
Kundry	S	2.231	0.1 10	0	0	8.84 9	0.9987 81	MB A
Erin	S	2.543	0.1 84	0	0	9.21 9	1.0918 70	MB A
Barnardiana	S	2.198	0.1 42	0	0	8.57 5	0.8743 61	MB A
Harbin	V	2.479	0.1 23	0	0	9.58 1	1.1876 90	MB A
Raybrown	Ld	2.748	0.1 03	0	0	9.88 8	1.4644 40	MB A
Sita	Sa	2.174	0.1 37	0	0		0.8769 76	MB A
Ragazza	S	2.800	0.1 68	0	0	10.0 85	1.3376 40	MB A
Bistro	Sa	2.435	0.0 91	0	0	10.3 95	1.1996 60	MB A
Chapman	S	2.266	0.1 91	0	0	8.42 9	0.8253 65	MB A
Immo	S	2.796	0.1 72	0	0	10.0 53	1.3195 80	MB A
Aehlita	S	2.769	0.0 59	0	0	10.1 62	1.6231 60	MB A
Kajov	Sl	2.402	0.0 37	0	0	9.51 4	1.3002 20	MB A
Quincy	S	2.930	0.1 23	0	0	10.0 50	1.5734 80	MB A
Hallstrom	V	2.397	0.0 89	0	0	9.42 9	1.1835 60	MB A
1990 TZ	S	2.427	0.2 68	0	0	10.5 73	0.8478 77	MB A
Sinuhe	Sa	2.769	0.2 06	0	0	9.85 0	1.2139 10	MB A

Pecker	S	2.238	0.1 55	0	0	8.98 6	0.9047 76	MB A
Gokumenon	S	2.765	0.2 05	0	0	9.90 2	1.2106 00	MB A
Patrick Gene	S	2.808	0.1 35	0	0	9.87 0	1.4199 80	MB A
1941 UN	S	2.758	0.3 37	0	0	8.88 0	0.8509 56	MB A
Bradfield	Sq	2.758	0.0 98	0	0	9.96 7	1.4786 70	MB A
Sisyphus	S	1.894	0.5 38	0	0	13.6 35	0.1044 96	APO
Berounka	S	2.794	0.0 91	0	0	10.3 84	1.5578 30	MB A
Huggins	S	2.232	0.0 79	0	0	8.94 0	1.0622 60	MB A
Felix	S	2.339	0.2 24	0	0	8.56 3	0.8363 51	MB A
Nikko	S	2.237	0.1 06	0	0	8.90 6	1.0153 50	MB A
Kochi	Sa	2.795	0.0 72	0	0	10.8 15	1.6130 20	MB A
Messner	Sq	2.791	0.1 11	0	0	9.95 6	1.4744 40	MB A
Mayall	S	1.887	0.1 11	0	0	13.8 14	0.6935 75	IMB
Amici	S	2.690	0.1 07	0	0	9.91 9	1.4238 50	MB A
Kasan	Sr	2.413	0.3 15	0	0	10.6 61	0.6902 12	MC A
Kaula	S	2.735	0.1 14	0	0	9.80 8	1.4413 50	MB A
Wallonia	S	2.180	0.2 39	0	0	9.52 7	0.7082 35	MC A
Kochera	S	2.206	0.0 58	0	0	8.88 8	1.0885 20	MB A

Lorenz	S	2.553	0.1 91	0	0	9.18 7	1.0704 50	MB A
Waland	Ld	2.746	0.0 53	0	0	10.1 15	1.6179 60	MB A
Kathy	S	2.382	0.2 56	0	0	8.82 1	0.7932 73	MB A
Kollontai	Sl	2.213	0.1 60	0	0	8.57 2	0.8466 47	MB A
Dence	S	2.394	0.2 31	0	0	11.4 01	0.8249 48	MB A
Nicholson	S	2.239	0.1 28	0	0	8.79 5	0.9375 73	MB A
Royer	S	2.605	0.0 46	0	0	11.0 89	1.5036 80	MB A
Haas	S	2.808	0.1 37	0	0	10.1 60	1.4563 90	MB A
Fridolin	Sq	2.792	0.0 97	0	0	10.0 13	1.5335 60	MB A
Kobzar	Sq	2.739	0.1 66	0	0	9.59 5	1.2924 40	MB A
Parchomenko	S	2.244	0.1 35	0	0	8.70 2	0.9506 01	MB A
Mongmanwai	S	2.553	0.1 88	0	0	9.37 5	1.0850 20	MB A
Ahnert	S	2.229	0.0 65	0	0	8.98 5	1.0925 00	MB A
Lemaitre	Sq	2.393	0.3 48	0	0	9.94 2	0.6726 67	MC A
WIYN	S	2.244	0.1 71	0	0	8.55 2	0.8690 56	MB A
Sutoku	S	2.691	0.1 10	0	0	10.5 44	1.3959 30	MB A
Atanasoff	Sa	2.694	0.0 27	0	0	10.3 31	1.6239 70	MB A
Mozartia	S	2.293	0.2 63	0	0	8.12 3	0.6768 95	MB A

Armandham mer	Sq	2.349	0.0 66	0	0	9.41 0	1.1879 20	MB A
Oosterhoff	S	2.183	0.2 03	0	0	8.21 3	0.7365 65	MB A
Clapton	S	2.913	0.0 71	0	0	10.2 69	1.7171 50	MB A
van Albada	S	2.241	0.1 65	0	0	8.52 5	0.8547 63	MB A
Somnium	S	2.206	0.1 96	0	0	8.48 9	0.7810 47	MB A
Andres Bello	S	2.203	0.0 80	0	0	8.90 3	1.0479 30	MB A
Patterson	V	2.298	0.1 04	0	0	9.24 1	1.0435 80	MB A
1984 CF	S	2.784	0.1 01	0	0	10.3 90	1.5301 20	MB A
Kirghizia	V	2.449	0.0 79	0	0	9.49 4	1.2783 60	MB A
Balster	S	2.802	0.0 45	0	0	10.2 47	1.6705 70	MB A
Sonja	Sq	2.228	0.2 75	0	0	7.95 2	0.6155 80	MC A
Nancy	S	2.218	0.1 39	0	0	8.59 5	0.9106 12	MB A
Kollaa	V	2.362	0.0 74	0	0	9.50 9	1.2156 20	MB A
Geowilliams	Sk	2.415	0.2 26	0	0	9.26 6	0.8937 31	MB A
Josefa	Sq	2.546	0.2 79	0	0	9.29 9	0.8298 15	MB A
Pogson	S	2.188	0.0 56	0	0	8.92 4	1.0817 40	MB A
Kallavesi	Sl	2.398	0.0 93	0	0	9.55 9	1.1818 40	MB A
Bronnina	S	2.221	0.0 41	0	0	9.26 0	1.1253 90	MB A



Entsuji	S	2.368	0.2 49	0	0	8.73 9	0.7780 18	MB A
Kushiro	Sl	2.811	0.1 52	0	0	10.0 91	1.3864 00	MB A
Hatanaka	Sq	2.791	0.1 10	0	0	9.91 2	1.4866 00	MB A
Vrchlicky	Sl	2.722	0.1 69	0	0	9.84 4	1.2753 20	MB A
Yurilvovia	Ld	2.742	0.1 09	0	0	9.86 1	1.4452 90	MB A
Kierkegaard	Sq	2.810	0.0 48	0	0	10.3 26	1.6630 70	MB A
Matsuyama	S	2.555	0.2 18	0	0	9.06 1	0.9844 47	MB A
Verbitskaya	S	2.807	0.1 72	0	0	10.0 92	1.3186 50	MB A
Patry	Sl	2.234	0.1 30	0	0	8.73 3	0.9284 51	MB A
Jeans	V	2.404	0.2 18	0	0	8.62 3	0.8717 64	MB A
Hyakkai	S	2.756	0.1 62	0	0	9.72 3	1.3167 00	MB A
Cossard	V	2.369	0.0 61	0	0	9.52 2	1.2164 10	MB A
Mach	Sq	2.208	0.0 32	0	0	9.08 1	1.1368 60	MB A
Yinhai	S	2.234	0.1 94	0	0	8.43 2	0.7959 59	MB A
Nemo	S	2.288	0.3 43	0	0	7.81 8	0.4970 32	MC A
Kenreimonin	Sq	2.801	0.0 67	0	0	10.1 28	1.5972 10	MB A
Dimitrov	R	2.440	0.0 14	0	0	9.64 8	1.4132 30	MB A
Ikenozenni	S	2.571	0.3 18	0	0	8.48 6	0.7466 61	MB A

Satpaev	Sl	2.222	0.1 31	0	0	8.71 0	0.9459 07	MB A
Elmer	S	2.790	0.1 69	0	0	9.94 1	1.3189 50	MB A
Boduognat	Sl	2.449	0.1 56	0	0	9.00 4	1.0809 90	MB A
Taihaku	Sa	2.712	0.0 58	0	0	10.0 87	1.5530 00	MB A
Sahlia	S	2.207	0.0 79	0	0	8.95 1	1.0582 00	MB A
Galina	Sl	2.395	0.1 32	0	0	9.50 3	1.1043 40	MB A
Studnicka	S	2.776	0.2 46	0	0	9.47 4	1.1226 30	MB A
House	Sq	2.747	0.1 83	0	0	10.1 84	1.2956 10	MB A
Miyazawake nji	S	2.215	0.0 61	0	0	9.04 0	1.0857 10	MB A
Oleshko	S	2.244	0.1 08	0	0	8.86 3	0.9922 95	MB A
Isora	Sq	2.252	0.2 78	0	0	7.99 7	0.6309 56	MC A
1997 CZ5	S	2.295	0.3 97	0	0	10.1 47	0.4059 36	MC A
Holt	S	2.318	0.3 35	0	0	9.95 5	0.6812 46	MC A
Jack London	S	2.196	0.1 41	0	0	8.55 0	0.8696 09	MB A
McCord	S	2.292	0.1 21	0	0	8.95 2	1.0076 80	MB A
1986 QS	S	2.783	0.1 65	0	0	9.94 6	1.3479 90	MB A
Gostin	S	2.225	0.0 87	0	0	8.88 9	1.0485 00	MB A
Delcano	S	2.277	0.1 77	0	0	8.74 5	0.8617 22	MB A

Pels	Sa	2.190	0.1 56	0	0	8.46 7	0.8322 99	MB A
Tanaka	S	2.438	0.0 14	0	0	9.72 5	1.4172 20	MB A
Galya	S	2.524	0.1 64	0	0	9.18 9	1.1147 40	MB A
Ikeya	Sq	2.771	0.1 60	0	0	9.92 9	1.3590 90	MB A
Vanphilos	S	2.367	0.3 60	0	0	9.87 6	0.6616 99	MC A
Kwasan	V	2.382	0.1 01	0	0	9.26 9	1.1553 90	MB A
Donna	Sl	2.387	0.1 01	0	0	9.19 0	1.1602 60	MB A
Beckman	S	2.406	0.3 97	0	0	9.42 0	0.6089 86	MC A
Gefion	Sl	2.784	0.1 51	0	0	9.99 9	1.3521 00	MB A
Doga	Sl	2.762	0.1 63	0	0	9.72 3	1.3160 20	MB A
Kaverznev	S	2.195	0.1 40	0	0	8.57 5	0.8754 15	MB A
Stravinsky	Sa	2.541	0.1 95	0	0	9.17 0	1.0539 20	MB A
Binomi	S	2.351	0.1 28	0	0	9.06 4	1.0493 90	MB A
Charlieparke r	S	2.754	0.1 02	0	0	9.98 3	1.4722 60	MB A
Burt	S	2.805	0.1 73	0	0	9.91 4	1.3252 10	MB A
Mawson	Ld	2.375	0.2 77	0	0	9.26 2	0.7141 08	MB A
Griffin	S	2.342	0.3 12	0	0	9.89 7	0.7673 27	MC A
Peltier	V	2.235	0.1 62	0	0	8.58 9	0.8631 98	MB A

Rodari	S	2.193	0.0 57	0	0	9.05 5	1.0596 80	MB A
Hubei	V	2.386	0.1 28	0	0	9.17 9	1.0778 10	MB A
Aubignan	Sa	2.255	0.2 71	0	0	8.31 7	0.6573 21	MC A
Beals	S	2.218	0.0 45	0	0	9.28 2	1.1304 70	MB A
Suzamur	Sq	2.524	0.1 12	0	0	9.50 8	1.2595 20	MB A
Namba	S	2.459	0.0 48	0	0	9.60 7	1.3358 90	MB A
Gekko	Sq	2.796	0.1 11	0	0	9.91 3	1.4859 20	MB A
Huntress	S	2.341	0.2 03	0	0	8.73 3	0.8845 36	MB A
Hamina	Ld	2.346	0.1 38	0	0	9.40 5	1.0404 60	MB A
Paradise	Sa	2.396	0.1 72	0	0	13.1 76	1.0000 70	MB A
Souseki	S	2.416	0.0 62	0	0	9.49 8	1.2784 60	MB A
Watts	S	2.199	0.1 22	0	0	8.75 7	0.9394 14	MB A
Ruzena	S	2.237	0.0 80	0	0	8.97 6	1.0506 20	MB A
Kitezh	V	2.336	0.1 50	0	0	8.94 9	0.9880 22	MB A
Sagan	S	2.195	0.0 70	0	0	8.83 0	1.0434 30	MB A
Jim Young	S	2.244	0.1 34	0	0	8.73 6	0.9551 96	MB A
Kamo	V	2.417	0.0 62	0	0	9.54 1	1.2820 50	MB A
Lewis	V	2.355	0.1 79	0	0	8.67 5	0.9216 88	MB A

Lapalma	V	2.290	0.0 71	0	0	9.31 7	1.1432 10	MB A
Giblin	Sq	2.795	0.1 09	0	0	9.94 0	1.4834 70	MB A
Heilongjiang	S	2.192	0.0 60	0	0	8.84 7	1.0763 50	MB A
Agekian	S	2.543	0.2 48	0	0	9.09 1	0.8952 05	MB A
Knysna	Sq	2.185	0.1 63	0	0	8.40 9	0.8125 75	MB A
Javiergorosa bel	S	2.293	0.2 66	0	0	8.56 5	0.6672 52	MB A
Jacliff	R	2.355	0.1 26	0	0	9.09 3	1.0594 70	MB A
Kunimoto	S	2.748	0.0 94	0	0	10.0 26	1.4977 80	MB A
Binzel	Sq	2.251	0.1 58	0	0	8.68 4	0.8778 74	MB A
1990 SV15	Sa	2.736	0.0 52	0	0	10.1 01	1.6053 10	MB A
Linsley	Sa	2.556	0.2 08	0	0	9.11 8	1.0166 60	MB A
Bulgaria	Sr	2.240	0.1 23	0	0	8.76 7	0.9559 78	MB A
Siebold	S	2.222	0.1 45	0	0	8.62 0	0.9093 46	MB A
Mozhaiskij	Ld	2.450	0.0 49	0	0	9.82 5	1.3475 10	MB A
Xerxes	S	2.801	0.1 62	0	0	10.0 26	1.3415 90	MB A
Burbine	S	2.787	0.1 13	0	0	10.2 57	1.4789 10	MB A
Aunus	S	2.202	0.1 09	0	0	8.75 1	0.9834 46	MB A
Morrison	Sl	2.215	0.0 63	0	0	8.90 6	1.0780 30	MB A

Wright	Sl	1.709	0.1 10	0	0	9.99 3	0.5108 56	MC A
Jarre	S	2.238	0.1 79	0	0	8.48 1	0.8360 59	MB A
Stepanov	S	2.204	0.0 88	0	0	8.92 6	1.0176 80	MB A
Banno	S	2.317	0.1 98	0	0	8.71 8	0.8674 42	MB A
Dientzenhofer	Sk	2.290	0.1 33	0	0	8.78 5	0.9973 54	MB A
Zaragoza	S	2.403	0.2 26	0	0	9.46 2	0.8674 65	MB A
Abehiroshi	V	2.396	0.0 55	0	0	9.42 9	1.2528 90	MB A
Dicicco	S	2.274	0.1 61	0	0	8.68 9	0.9170 88	MB A
Vesnina	Sq	2.774	0.1 33	0	0	10.1 07	1.4301 80	MB A
Oozora	S	2.188	0.1 04	0	0	8.81 5	0.9562 29	MB A
Overbeek	S	2.311	0.2 81	0	0	8.58 3	0.6600 19	MC A
Shizukagozen	S	2.725	0.2 25	0	0	9.46 7	1.1419 10	MB A
Vertinskij	S	2.214	0.0 71	0	0	8.96 8	1.0761 00	MB A
Marielukac	S	2.535	0.2 56	0	0	8.98 0	0.8786 08	MB A
Repin	V	2.326	0.1 56	0	0	8.87 1	0.9591 40	MB A
Kagiroyino-Oka	Ld	2.769	0.0 24	0	0	10.2 80	1.7229 80	MB A
Savo	Sa	2.190	0.1 31	0	0	8.51 1	0.9052 67	MB A
Tokeidai	S	2.251	0.1 32	0	0	8.76 9	0.9466 18	MB A

Pugovkin	Sa	2.777	0.0 12	0	0	10.4 02	1.7579 60	MB A
Obi	S	2.202	0.2 14	0	0	8.28 3	0.7285 66	MB A
Okutama	Sq	2.539	0.2 76	0	0	8.73 0	0.8448 70	MB A
Dieckvoss	S	2.126	0.1 15	0	0	8.40 0	0.8667 50	MB A
Michela	S	2.358	0.1 60	0	0	8.75 6	0.9962 77	MB A
Fagnes	S	2.225	0.2 81	0	0	8.27 4	0.5837 41	MC A
Newburn	S	2.180	0.1 16	0	0	8.59 9	0.9147 40	MB A
Ida	S	2.861	0.0 43	0	0		1.7530 90	MB A
Bragaria	S	2.224	0.1 68	0	0	8.49 9	0.8377 44	MB A
Kozai	S	1.841	0.2 00	0	0	17.1 23	0.6395 06	MC A
Dorrit	Sa	1.918	0.2 07	0	0	9.94 2	0.6149 21	MC A
Bustelli	S	2.698	0.1 41	0	0	10.3 88	1.3693 40	MB A
Araki	Sl	2.361	0.1 59	0	0	9.10 1	0.9938 88	MB A
Simonenko	S	2.377	0.0 10	0	0	9.62 5	1.3592 00	MB A
Netto	S	2.364	0.2 12	0	0	8.49 9	0.8696 66	MB A
Celle	V	2.416	0.0 94	0	0	9.35 7	1.1760 30	MB A
Fletcher	V	2.411	0.1 43	0	0	9.21 1	1.0768 50	MB A
Trisov	S	2.208	0.1 86	0	0	8.40 1	0.7909 48	MB A

Lepage	V	2.296	0.0 28	0	0	9.44 3	1.2508 40	MB A
Buchwald	S	2.192	0.0 54	0	0	9.01 6	1.0863 40	MB A
Tamines	S	2.228	0.0 86	0	0	9.02 6	1.0426 70	MB A
Incidentia	V	2.474	0.0 48	0	0	9.72 9	1.3805 70	MB A
Pettengill	S	2.167	0.1 96	0	0	8.19 2	0.7286 84	MB A
Tsubame	Sr	2.757	0.0 93	0	0	10.2 44	1.5075 30	MB A
Noel	Sa	2.191	0.0 86	0	0	8.90 5	1.0161 80	MB A
Cuyo	Sl	2.149	0.5 06	0	0	9.06 0	0.0716 29	AM O
2000 UV13	Sq	2.425	0.6 33	0	0	11.2 96	0.0803 75	APO
Tadamori	S	2.223	0.1 71	0	0	8.48 6	0.8585 72	MB A
Asahina	S	2.401	0.3 74	0	0	9.64 8	0.6760 54	MC A
Meiden	S	2.248	0.1 55	0	0	8.62 2	0.9149 48	MB A
Dennisreuter	S	2.268	0.1 75	0	0	8.81 8	0.9088 29	MB A
Goya	Sq	2.757	0.1 61	0	0	9.65 4	1.3305 50	MB A
1992 AX	Sk	1.838	0.2 78	0	0	7.31 9	0.3773 17	MC A
Stekarstrom	S	2.175	0.1 29	0	0	8.45 7	0.8894 50	MB A
Jansky	Sl	2.372	0.1 59	0	0	8.81 0	1.0102 40	MB A
Toutatis	Sk	2.531	0.6 29	0	0	6.59 0	0.0060 99	APO (PH A)



Zdenka	S	2.199	0.1 04	0	0	8.80 6	0.9629 62	MB A
Namiki	Ld	2.621	0.4 23	0	0	8.26 4	0.5339 06	MC A
Nedbal	S	2.345	0.1 92	0	0	9.03 9	0.9332 88	MB A
Couteau	S	2.273	0.2 46	0	0	8.11 7	0.7076 37	MB A
1992 AE1	Sq	2.734	0.1 94	0	0	9.88 9	1.2243 20	MB A
Hissao	Sr	2.248	0.0 85	0	0	8.94 2	1.0719 90	MB A
Fortov	S	2.191	0.1 76	0	0	8.34 4	0.7909 36	MB A
Adamkrafft	Sq	2.314	0.2 65	0	0	8.14 6	0.6890 70	MB A
Julian Loewe	V	2.386	0.0 96	0	0	9.24 3	1.1793 40	MB A
Iwamoto	S	2.256	0.1 67	0	0	8.77 0	0.8975 42	MB A
Efimov	Sa	2.229	0.2 32	0	0	8.22 0	0.7212 61	MB A
Brendalee	S	2.254	0.2 37	0	0	8.13 2	0.7387 90	MB A
Preston	S	2.292	0.2 20	0	0	10.9 83	0.8669 18	MB A
Bocacara	S	2.291	0.0 86	0	0	9.36 2	1.1049 00	MB A
Nikulin	V	2.441	0.1 32	0	0	9.25 3	1.1209 90	MB A
Musashino	S	2.347	0.2 46	0	0	8.33 0	0.7754 98	MB A
James	Sa	2.124	0.3 60	0	0	12.9 38	0.6203 46	MC A
Brorfelde	S	1.818	0.0 53	0	0	10.5 86	0.7286 94	IMB

Mori	S	2.237	0.1 48	0	0	8.63 5	0.9192 15	MB A
Roddy	S	1.892	0.1 34	0	0	10.6 98	0.7870 59	MC A
Feldman	S	2.186	0.0 65	0	0	8.88 1	1.0623 70	MB A
Hobetsu	S	2.237	0.0 86	0	0	8.89 4	1.0558 60	MB A
Ninian	S	2.265	0.2 14	0	0	8.31 3	0.7753 79	MB A
Milesdavis	S	2.385	0.3 02	0	0	8.15 1	0.6872 51	MC A
Kepler	S	2.677	0.4 69	0	0	8.72 9	0.4305 49	MC A
1991 FE	S	2.195	0.4 54	0	0	6.66 3	0.2135 89	AM O
Knezevic	V	2.371	0.1 39	0	0	9.12 8	1.0559 90	MB A
Dorchester	Sa	2.189	0.2 43	0	0	8.19 6	0.6489 30	MC A
Loviisa	S	2.212	0.0 75	0	0	8.96 0	1.0686 30	MB A
1996 PW	Ld	253.3 61	0.9 90	0	0	12.0 40	1.4808 20	TN O
Florence	S	1.769	0.4 23	0	0	8.17 1	0.0441 98	AM O (PH A)
Alupka	V	2.368	0.1 27	0	0	9.13 7	1.0603 50	MB A
Kunikov	Sa	2.179	0.1 41	0	0	8.46 9	0.8753 95	MB A
Yatsugatake	S	2.240	0.0 91	0	0	8.94 9	1.0303 20	MB A
Foshan	S	2.227	0.1 63	0	0	8.48 9	0.8683 61	MB A

Phthia	Sa	2.451	0.0 36	0	0		1.3609 80	MB A	
1998 QS52	Sq	2.203	0.8 58	0	0		11.2 51	0.0145 04	APO (PH A)
Kunz- Hallstein	Sk	2.322	0.2 89	0	0		10.7 94	0.7460 89	MC A
Zdislava	Sa	2.199	0.2 54	0	0		8.04 0	0.6456 94	MC A
ORO	Sq	2.185	0.0 73	0	0		8.87 4	1.0225 20	MB A
Yayoi	S	2.145	0.0 65	0	0		8.70 3	1.0186 50	MB A
Elachi	Sl	1.872	0.0 81	0	0		11.2 37	0.7467 64	IMB
Maymelou	V	2.380	0.1 29	0	0		9.14 6	1.0678 80	MB A
Ptolemaeus	S	2.287	0.1 72	0	0		8.67 8	0.8842 55	MB A
Nanking	Sq	2.368	0.3 75	0	0		9.48 5	0.6341 39	MC A
1992 HE	S	2.241	0.5 73	0	0		12.4 23	0.2892 87	APO
Lubeck	S	2.305	0.1 10	0	0		9.10 0	1.0717 70	MB A
Spartacus	V	2.210	0.0 75	0	0		8.99 5	1.0309 80	MB A
Ralph	Sr	2.294	0.1 43	0	0		8.86 9	0.9574 36	MB A
Tamblyn	S	2.423	0.2 27	0	0		8.87 0	0.8867 87	MB A
O'Keefe	Sk	2.371	0.3 59	0	0		10.0 02	0.6276 77	MC A
Korankei	Sa	2.522	0.1 90	0	0		9.05 9	1.0335 60	MB A
Kawasato	S	2.441	0.3 25	0	0		8.16 9	0.6399 41	MC A

Kaendler	Sl	2.162	0.1 31	0	0	8.48 5	0.8723 81	MB A
1988 RF7	S	2.191	0.2 44	0	0	8.04 8	0.6541 82	MC A
1991 PE10	S	2.790	0.1 74	0	0	9.91 0	1.3119 10	MB A
Tezcatlipoca	Sl	1.710	0.3 65	0	0	9.50 8	0.2453 09	AM O
AAS	Sq	2.262	0.2 02	0	0	8.32 3	0.8084 37	MB A
Ardenne	S	2.279	0.1 11	0	0	8.85 5	1.0228 20	MB A
1999 VM40	S	2.312	0.4 84	0	0	7.92 9	0.2047 12	AM O
1988 WC	S	2.222	0.4 03	0	0	9.45 2	0.5000 51	MC A
Richard	S	2.163	0.1 78	0	0	8.25 8	0.7699 92	MB A
Westerlund	Sq	2.203	0.1 99	0	0	8.26 2	0.7558 07	MB A
Stradonice	Sr	2.289	0.0 56	0	0	9.32 6	1.1796 10	MB A
Cavaille- Coll	S	2.156	0.0 33	0	0	8.95 1	1.0922 10	MB A
Otaru	Sa	2.173	0.0 29	0	0	8.99 8	1.1135 40	MB A
Pajdusakova	S	2.277	0.1 76	0	0	8.56 3	0.8977 68	MB A
Harrington	S	2.396	0.3 03	0	0	8.19 1	0.6641 06	MB A
Tholen	S	2.373	0.3 63	0	0	9.78 2	0.6671 22	MC A
Zguridi	V	2.442	0.1 48	0	0	9.16 2	1.0797 70	MB A
Oze	Sq	2.198	0.5 02	0	0	6.39 4	0.1240 78	AM O

1990 BG	S	1.486	0.5 69	0	0	13.2 23	0.2750 62	APO
Kreutz	S	1.795	0.0 84	0	0	9.85 8	0.7183 82	MC A
Bykov	S	2.270	0.1 96	0	0	8.42 7	0.8397 11	MB A
Juvenalis	S	2.376	0.1 51	0	0	8.88 8	1.0288 80	MB A
Rauthgundis	V	2.292	0.1 11	0	0	9.02 5	1.0286 40	MB A
Ottijeff	S	2.342	0.3 53	0	0	9.82 1	0.6499 18	MC A
Birgitta	S	2.301	0.3 33	0	0	7.88 8	0.5397 48	MC A
Gliba	Sl	2.347	0.2 10	0	0	8.49 3	0.8676 30	MB A
Drewpinsky	S	2.195	0.0 83	0	0	8.82 6	1.0179 00	MB A
1993 BW3	Sq	2.147	0.5 29	0	0	8.48 3	0.2210 11	APO
Daedalus	Sr	1.461	0.6 14	0	0	10.2 75	0.2691 51	APO
Athabasca	V	2.260	0.0 95	0	0	9.06 0	1.0586 40	MB A
2000 EZ148	S	2.584	0.6 13	0	0	7.33 4	0.0929 37	APO
2000 DM8	Sq	1.484	0.5 54	0	0	16.2 71	0.2681 09	APO
1994 TW1	Sr	2.589	0.5 80	0	0	12.2 85	0.2870 57	AM O
1993 MF	S	2.439	0.5 37	0	0	7.01 4	0.1829 09	AM O
1990 SB	Sq	2.397	0.5 45	0	0	8.23 6	0.3065 12	AM O
Boreas	S	2.273	0.4 49	0	0	7.69 3	0.2524 56	AM O

Brucemurray	S	1.565	0.2 19	0	0	12.7 94	0.4252 31	AM O
Midas	V	1.777	0.6 50	0	0	14.1 24	0.0037 11	APO (PH A)
Toro	S	1.367	0.4 36	0	0	6.67 0	0.0507 72	APO
Clarke	S	2.145	0.2 02	0	0	8.22 7	0.7105 68	MB A
Eros	S	1.458	0.2 23	0	0	6.11 2	0.1493 41	AM O
Belton	V	2.355	0.1 02	0	0	9.24 0	1.1254 20	MB A
1977 QQ5	S	2.225	0.4 66	0	0	9.66 0	0.3550 04	AM O
Schleicher	V	2.343	0.0 50	0	0	9.48 5	1.2515 40	MB A
Runcorn	Sa	2.199	0.1 08	0	0	8.75 3	0.9608 14	MB A
1999 CV3	Sq	1.460	0.3 94	0	0	8.52 8	0.1180 34	APO
Cuno	Sq	1.983	0.6 34	0	0	7.40 5	0.0284 27	APO (PH A)
Albert	S	2.639	0.5 46	0	0	7.72 5	0.2033 59	AM O
2000 NM	Sr	2.688	0.6 63	0	0	9.37 5	0.1338 87	APO
1995 BM2	Sq	2.316	0.3 07	0	0	9.89 2	0.7640 78	MC A
2001 RM	S	2.253	0.4 83	0	0	12.4 77	0.3520 83	AM O
1997 RD1	Sq	2.672	0.3 97	0	0	8.92 7	0.6053 63	MC A
Cleobulus	Sq	2.705	0.5 24	0	0	7.35 5	0.3081 67	AM O

Donnashirley	S	2.280	0.337	0	0	9.830	0.621650	MC A
Geographos	S	1.245	0.335	0	0	6.747	0.029829	APO (PH A)
Shoemaker	Sa	1.800	0.082	0	0	12.777	0.667546	MC A
Magellan	V	1.820	0.326	0	0	9.156	0.239016	AM O
Fredclifford	S	1.974	0.225	0	0	11.576	0.681910	MC A
1994 RH	S	2.246	0.441	0	0	8.606	0.450187	AM O
1998 NU	Sk	2.354	0.488	0	0	6.822	0.217809	AM O
Tukmit	Sr	1.186	0.272	0	0	14.146	0.111596	APO
1996 UK	Sq	2.691	0.459	0	0	8.291	0.474006	MC A
1999 YN4	S	1.685	0.232	0	0	13.424	0.431709	AM O
Peleus	Sq	2.117	0.536	0	0	9.304	0.095630	APO
Nefertiti	Sq	1.574	0.284	0	0	11.571	0.215293	AM O
1999 TX16	Ld	1.551	0.332	0	0	12.834	0.135102	AM O
Antinous	Sq	2.259	0.607	0	0	8.346	0.182839	APO
1998 BM10	Sq	2.420	0.368	0	0	10.389	0.607417	MC A
1999 KU4	S	2.193	0.406	0	0	7.281	0.306508	MC A
Zephyr	S	1.962	0.492	0	0	5.898	0.021265	APO (PH A)

2001 VS78	S	1.787	0.3 08	0	0	9.05 3	0.4447 59	AM O
1998 XM4	S	1.657	0.4 16	0	0	21.1 80	0.1085 74	APO
1998 FM5	S	2.270	0.5 52	0	0	7.01 4	0.1012 04	AM O
Eureka	Sr	1.524	0.0 65	0	0	9.65 8	0.4981 20	MC A
1997 WU22	S	1.468	0.4 42	0	0	7.41 8	0.1459 55	APO
2000 SE45	S	2.740	0.5 61	0	0	7.49 4	0.2212 71	AM O
Ondaatje	Sr	1.626	0.2 21	0	0	9.24 4	0.2545 27	AM O
Morpheus	Sq	2.296	0.7 72	0	0	9.25 6	0.0984 31	APO
Oljato	Sq	2.174	0.7 13	0	0	7.94 7	0.0031 81	APO (PH A)
Konnohmaru	Sq	2.829	0.5 98	0	0	7.13 9	0.1489 86	AM O
1994 LX	V	1.261	0.3 46	0	0	13.1 92	0.1542 67	APO
1998 OH	S	1.542	0.4 06	0	0	8.82 7	0.0286 69	APO (PH A)
1999 XO35	Sq	2.541	0.5 65	0	0	8.83 7	0.2774 91	AM O
1999 GJ4	Sq	1.339	0.8 08	0	0	15.8 08	0.1566 63	APO
Karayusuf	S	1.578	0.0 76	0	0	8.37 3	0.4852 93	MC A
1991 CS	S	1.123	0.1 65	0	0	14.4 07	0.0221 64	APO (PH A)
Krok	S	2.151	0.4 49	0	0	6.88 7	0.1834 89	AM O



1993 UB	Sr	2.276	0.4 61	0	0	9.74 6	0.2516 36	AM O
1991 VK	Sq	1.842	0.5 07	0	0	6.09 3	0.0477 86	APO (PH A)
2000 OJ8	Sr	2.357	0.5 68	0	0	6.55 7	0.0284 88	AM O (PH A)
2000 GO82	S	2.162	0.8 05	0	0	11.8 40	0.3713 31	APO
1999 CU3	Sl	1.577	0.5 24	0	0	7.28 7	0.0631 93	APO
2000 VN2	Sa	1.974	0.4 42	0	0	7.21 1	0.1501 41	AM O
2000 GR146	S	1.463	0.5 75	0	0	8.52 0	0.2034 96	APO
1999 JO8	S	2.651	0.5 75	0	0	9.68 3	0.1446 23	AM O
2001 VG5	Sq	2.306	0.6 11	0	0	7.62 3	0.1213 67	APO
Tjelvar	V	1.248	0.8 10	0	0	12.7 73	0.0685 59	APO
1993 VW	V	1.696	0.4 85	0	0	6.35 2	0.0609 23	APO
1989 VA	Sq	0.729	0.5 95	0	0	16.1 67	0.1552 94	ATE
2001 DU8	S	1.777	0.3 42	0	0	11.5 80	0.4333 81	AM O
1999 WK13	S	1.845	0.3 62	0	0	11.8 86	0.2800 91	AM O
1999 KW4	S	0.642	0.6 89	0	0	21.3 74	0.0130 85	ATE (PH A)
1998 YP11	Sr	1.721	0.3 89	0	0	6.78 9	0.2032 52	AM O
2001 WG2	Sk	1.794	0.6 96	0	0	14.1 17	0.3378 80	APO

2001 EB	Sl	1.629	0.2 56	0	0	12.6 63	0.4128 43	AM O
1998 PB1	Sq	2.030	0.4 30	0	0	6.44 8	0.1412 43	AM O
Norwan	S	1.568	0.3 17	0	0	5.77 6	0.1610 86	AM O
1998 WM	Sq	1.225	0.3 15	0	0	8.81 2	0.1685 62	APO
2001 MF1	Sk	2.651	0.5 77	0	0	9.59 6	0.3424 30	AM O
Cerberus	S	1.080	0.4 67	0	0	9.23 0	0.1565 05	APO
1998 WZ6	V	1.452	0.4 08	0	0	9.10 8	0.0347 86	APO (PH A)
1998 PG	Sq	2.015	0.3 91	0	0	6.69 2	0.2341 18	AM O
Yuliya	S	1.720	0.2 55	0	0	7.52 1	0.2958 38	AM O
Bacchus	Sq	1.078	0.3 49	0	0	7.07 5	0.0672 44	APO
1998 MQ	S	1.783	0.4 08	0	0	8.77 5	0.1294 54	AM O
Vesta	V	2.361	0.0 89	0	0		1.1394 80	MB A
2001 XR1	Sq	1.245	0.5 50	0	0	9.52 0	0.1026 71	APO
Aten	Sr	0.967	0.1 83	0	0	8.64 2	0.1131 46	ATE
2001 UA5	Sq	1.787	0.4 46	0	0	6.07 2	0.0316 57	APO (PH A)
1994 PC1	S	1.346	0.3 28	0	0	11.6 66	0.0001 66	APO (PH A)

2001 XN254	S	2.325	0.5 58	0	0	6.22 9	0.0458 26	AM O (PH A)
2000 XL44	S	2.224	0.4 27	0	0	7.38 0	0.2912 65	AM O
Nyx	V	1.927	0.4 59	0	0	5.71 2	0.0555 27	AM O
2000 AX93	Sq	2.210	0.4 79	0	0	9.17 3	0.2775 69	AM O
1991 TB1	S	1.454	0.3 52	0	0	8.45 2	0.1404 09	APO
1992 SK	S	1.248	0.3 25	0	0	7.03 7	0.0456 97	APO (PH A)
1997 GH3	S	2.502	0.5 63	0	0	6.65 5	0.1052 03	AM O
1991 VH	Sk	1.137	0.1 44	0	0	6.39 0	0.0263 01	APO (PH A)
2001 OE84	S	2.279	0.4 73	0	0	7.16 1	0.2069 29	AM O
2000 JQ66	R	2.166	0.4 19	0	0	7.00 7	0.2765 01	AM O
2000 EX106	S	1.104	0.2 76	0	0	6.34 7	0.1678 76	APO
Verenia	V	2.093	0.4 87	0	0	6.62 0	0.0747 39	AM O
1998 XB	S	0.908	0.3 51	0	0	8.93 6	0.1139 86	ATE
1995 WL8	Sq	2.365	0.4 84	0	0	8.41 7	0.2987 64	AM O
Ninkasi	Sq	1.370	0.1 68	0	0	7.14 3	0.1496 00	AM O
2002 AL14	Ld	1.038	0.1 26	0	0	9.96 3	0.0748 71	APO
1998 QR15	Sq	2.765	0.5 59	0	0	7.65 2	0.2606 52	AM O

1997 BQ	S	1.746	0.4 78	0	0	6.49 4	0.0360 35	APO (PH A)
1994 AW1	Sa	1.105	0.0 76	0	0	10.2 67	0.0191 79	AM O (PH A)
2000 GK137	Sq	1.996	0.5 06	0	0	6.45 9	0.0165 89	APO (PH A)
2002 BK25	Sk	2.298	0.7 48	0	0	8.87 6	0.0466 28	APO (PH A)
2000 JG5	S	1.341	0.7 96	0	0	14.9 28	0.0282 88	APO (PH A)
1998 FX2	Sq	2.153	0.4 91	0	0	6.80 2	0.1053 96	AM O
Tomaiyowit	S	1.080	0.3 56	0	0	7.24 4	0.0342 08	APO (PH A)
1999 EE5	S	1.669	0.2 82	0	0	11.1 76	0.2098 80	AM O
1999 YF3	Sq	1.487	0.1 43	0	0	10.7 50	0.3125 33	AM O
2000 WF6	Sq	2.460	0.5 03	0	0	13.3 39	0.2610 20	AM O
2001 QQ142	Sq	1.423	0.3 11	0	0	5.35 0	0.0114 04	APO (PH A)
2001 EC	Sq	2.589	0.7 71	0	0	8.26 9	0.0032 84	APO (PH A)
2000 GU127	S	2.105	0.7 27	0	0	8.51 8	0.1083 03	APO
1999 YB	Sq	1.321	0.0 75	0	0	5.89 2	0.2158 86	AM O
2002 AQ2	S	2.660	0.6 08	0	0	7.49 3	0.0731 88	AM O

2001 WA25	S	1.756	0.5 17	0	0	7.48 4	0.0965 53	APO
1999 DJ4	Sq	1.853	0.4 84	0	0	6.22 4	0.0229 30	APO (PH A)
1997 UH9	Sq	0.830	0.4 75	0	0	13.1 59	0.2232 91	ATE
1998 VR	Sk	0.876	0.3 18	0	0	10.6 04	0.1514 75	ATE
1980 WF	V	2.235	0.5 16	0	0	6.52 6	0.1128 94	AM O
2001 WL15	Sk	1.988	0.4 74	0	0	6.13 9	0.0660 02	AM O
1999 JV3	S	1.451	0.4 15	0	0	7.08 7	0.0668 69	APO
Saunders	Sq	2.305	0.4 82	0	0	6.98 2	0.1897 49	AM O
1999 FK21	S	0.739	0.7 03	0	0	15.2 85	0.0706 43	ATE
1999 DB2	Sq	3.037	0.6 12	0	0	7.92 5	0.2652 66	AM O
1998 WP5	Sl	1.374	0.1 95	0	0	7.90 6	0.2457 45	AM O
1997 BR	S	1.335	0.3 06	0	0	7.01 2	0.0147 42	APO (PH A)
Eunomia	S	2.644	0.1 86	0	0		1.1948 50	MB A
1992 FE	V	0.927	0.4 05	0	0	8.87 5	0.0341 70	ATE (PH A)
1998 MW5	Sq	1.023	0.3 63	0	0	7.19 9	0.0761 58	APO
1999 YG3	S	1.285	0.3 29	0	0	12.2 58	0.0422 66	APO (PH A)
Juno	Sk	2.669	0.2 57	0	0		1.0345 40	MB A

2000 GJ147	S	1.162	0.2 37	0	0	9.64 5	0.0256 53	APO (PH A)
1997 GL3	V	2.276	0.7 82	0	0	8.93 2	0.0001 98	APO (PH A)
2001 JM1	S	1.461	0.3 11	0	0	6.72 2	0.0462 67	APO (PH A)
2000 GD2	Sq	0.758	0.4 77	0	0	15.6 77	0.0718 02	ATE
2001 TC45	Sq	2.220	0.6 42	0	0	8.21 5	0.0219 95	APO (PH A)
2000 GV127	S	2.844	0.6 15	0	0	8.60 2	0.0943 88	AM O
1994 TF2	Sr	0.993	0.2 84	0	0	10.5 66	0.2544 89	ATE
1999 ND43	Sl	1.523	0.3 14	0	0	5.17 1	0.0779 32	AM O
1998 SG2	Sq	2.248	0.4 58	0	0	6.73 7	0.2193 34	AM O
1997 TT25	Sq	2.123	0.4 18	0	0	6.93 3	0.2478 36	AM O
2001 XY10	Sk	0.872	0.3 87	0	0	13.6 63	0.0582 40	ATE
1998 SU27	Sq	2.124	0.5 96	0	0	6.85 4	0.0714 12	APO
1998 BG9	S	2.510	0.5 41	0	0	7.70 3	0.1684 28	AM O
2000 SY162	Sq	2.293	0.4 58	0	0	7.14 4	0.2513 74	AM O
2002 AA	Sq	1.148	0.3 02	0	0	6.56 1	0.0575 05	APO
Hebe	S	2.425	0.2 03	0	0		0.9739 65	MB A
Iris	S	2.385	0.2 31	0	0		0.8461 00	MB A

Mnemosyne	S	3.151	0.1 13	0	0	1.8122 20	MB A	
Amphitrite	S	2.554	0.0 73	0	0	1.3871 00	MB A	
2001 QA143	Sk	2.259	0.4 93	0	0	6.76 2	0.1985 98	AM O
2000 KL33	S	2.113	0.4 30	0	0	6.77 1	0.1916 94	AM O
1999 SK10	Sq	1.763	0.4 41	0	0	5.72 2	0.1129 34	APO
1999 CV8	V	1.297	0.3 52	0	0	7.04 1	0.0570 12	APO
1999 JE1	Sq	1.323	0.7 02	0	0	11.5 78	0.0242 88	APO (PH A)
2001 XU30	Sq	2.192	0.6 67	0	0	7.72 4	0.0017 37	APO (PH A)
2000 WL63	S	1.432	0.2 99	0	0	6.97 1	0.1611 76	APO
2000 MU1	S	1.373	0.3 82	0	0	6.65 6	0.0105 65	APO (PH A)
1999 RB32	V	2.430	0.5 70	0	0	6.49 1	0.0587 47	AM O
Polyhymnia	Sq	2.873	0.3 31	0	0		0.9138 08	MB A
Apophis	Sq	0.922	0.1 91	0	0	5.68 8	0.0003 16	ATE (PH A)
2001 FY	S	1.886	0.3 27	0	0	6.54 6	0.2738 13	AM O
Parthenope	Sk	2.453	0.1 00	0	0		1.1932 20	MB A
Atala	S	3.137	0.0 81	0	0		1.9224 60	MB A
Massalia	S	2.410	0.1 42	0	0		1.0846 10	MB A

Philomela	S	3.113	0.0 16	0	0	2.0483 90	MB A	
Gallia	S	2.772	0.1 87	0	0	1.3734 90	MB A	
Hathor	Sq	0.844	0.4 50	0	0	9.60 8	0.0068 74	ATE (PH A)
2000 YF29	S	1.492	0.3 71	0	0	5.38 0	0.0092 77	APO (PH A)
2000 DO1	V	1.430	0.6 82	0	0	9.06 3	0.0134 82	APO (PH A)
1998 BB10	Sq	1.272	0.4 25	0	0	7.16 0	0.0231 36	APO (PH A)
Laetitia	S	2.769	0.1 11	0	0	1.4621 50	MB A	
1998 VD35	Sq	1.565	0.4 76	0	0	6.35 0	0.0032 53	APO (PH A)
1993 TQ2	Sa	1.985	0.4 20	0	0	6.37 2	0.1993 93	AM O
Irene	S	2.586	0.1 67	0	0	1.1796 60	MB A	
1999 AQ10	S	0.934	0.2 36	0	0	6.35 6	0.0060 57	ATE (PH A)
Melpomene	S	2.297	0.2 18	0	0	0.8132 58	MB A	
2000 WM63	S	1.030	0.1 57	0	0	8.97 0	0.1210 63	APO
Euterpe	S	2.347	0.1 73	0	0	0.9568 09	MB A	
Danae	S	2.986	0.1 66	0	0	1.4837 00	MB A	
Astraea	S	2.574	0.1 91	0	0	1.0958 90	MB A	



1999 FA	S	1.078	0.1 33	0	0	6.22 5	0.0065 03	APO (PH A)
2002 DU3	Sq	1.145	0.2 38	0	0	5.65 3	0.0073 25	APO (PH A)
Bellona	S	2.776	0.1 52	0	0		1.3708 60	MB A
1996 FQ3	Sq	2.032	0.4 69	0	0	5.97 2	0.0713 45	AM O
Urania	Sl	2.366	0.1 28	0	0		1.0709 00	MB A
Nausikaa	Sl	2.403	0.2 45	0	0		0.8173 03	MB A
Thalia	S	2.626	0.2 35	0	0		1.0463 30	MB A
2000 WJ63	Sq	2.837	0.5 91	0	0	7.12 6	0.1779 98	AM O
Athamantis	Sl	2.382	0.0 62	0	0		1.2476 20	MB A
1999 YD	Sk	2.462	0.5 94	0	0	6.32 2	0.0250 61	APO (PH A)
Thetis	Sl	2.470	0.1 33	0	0		1.1298 10	MB A
Ariadne	Sk	2.203	0.1 68	0	0		0.8158 60	MB A
2001 JV1	Sq	1.705	0.4 35	0	0	5.67 9	0.0222 90	APO (PH A)
Asia	S	2.421	0.1 85	0	0		0.9675 88	MB A
2002 BA1	S	2.062	0.4 56	0	0	6.20 3	0.1333 81	AM O
2002 AK14	V	1.017	0.1 06	0	0	8.51 0	0.0826 03	APO
Ausonia	Sa	2.395	0.1 27	0	0		1.0824 90	MB A

2002 CT46	Sr	2.364	0.5 29	0	0	7.85 5	0.1247 58	AM O
1999 DY2	Sr	2.039	0.4 64	0	0	6.40 2	0.1089 96	AM O
2000 AH205	Sk	1.144	0.4 06	0	0	6.73 4	0.0150 99	APO
1999 FN19	Sq	1.647	0.3 91	0	0	5.08 5	0.0162 97	APO
2000 AE205	S	1.165	0.1 38	0	0	4.25 1	0.0303 01	APO
2000 YA	Sk	2.386	0.6 45	0	0	6.92 5	0.0074 91	APO
2002 DQ3	Sq	1.387	0.2 55	0	0	4.81 1	0.0508 32	AM O
Itokawa	S(I V)	1.324	0.2 80	0	0	4.63 7	0.0130 95	APO (PH A)
2000 DO8	S	2.473	0.6 16	0	0	6.48 9	0.0038 57	APO
2009 DD45	S	1.241	0.2 05	0	0	6.02 1	0.0007 44	APO
1998 BT13	Sq	2.456	0.5 98	0	0	6.34 6	0.0034 16	APO
5154 T-3	?	3.091	0.2 76	0	0	9.90 8	1.2540 60	MB A
4658 T-3	?	2.134	0.1 95	0	0	8.06 0	0.7172 81	MB A
4571 T-3	?	2.546	0.2 88	0	0	8.63 0	0.8152 80	MB A
3521 T-3	?	2.433	0.3 64	0	0	7.79 5	0.5572 68	MC A
3411 T-3	?	2.482	0.1 65	0	0	9.12 7	1.0858 40	MB A
2678 T-3	?	2.260	0.2 58	0	0	8.46 4	0.6802 20	MB A
2620 T-3	?	3.265	0.2 56	0	0	10.6 94	1.4316 20	OM B

2060 T-2	?	2.373	0.2 02	0	0	8.57 5	0.8938 96	MB A
1168 T-2	?	2.645	0.2 59	0	0	9.58 0	0.9561 45	MB A
1077 T-2	?	2.652	0.2 09	0	0	9.23 0	1.0987 50	MB A
6879 P-L	?	3.054	0.2 57	0	0	9.72 3	1.2683 60	MB A
6344 P-L	?	2.813	0.6 65	0	0	7.01 9	0.0323 97	APO (PH A)
6331 P-L	?	2.335	0.2 83	0	0	8.36 3	0.6705 08	MB A
6013 P-L	?	2.280	0.1 86	0	0	8.61 7	0.8612 40	MB A
4847 P-L	?	2.722	0.2 38	0	0	9.40 2	1.0719 00	MB A
4717 P-L	?	2.954	0.2 19	0	0	9.70 6	1.3005 70	MB A
4532 P-L	?	2.325	0.2 01	0	0	8.69 0	0.8550 72	MB A
4198 P-L	?	2.229	0.2 62	0	0	8.05 9	0.6369 89	MC A
2181 P-L	?	3.022	0.2 67	0	0	9.83 2	1.2538 80	MB A
2018 VB1	?	0.755	0.4 15	0	0	10.0 39	0.0399 71	ATE
2018 VA1	?	1.374	0.2 72	0	0	5.67 8	0.0188 27	APO
2018 VZ	?	1.330	0.3 22	0	0	8.76 3	0.0173 89	APO
2018 VY	?	1.713	0.4 13	0	0	14.3 09	0.1171 93	APO
2018 VX	?	1.544	0.4 77	0	0	8.13 9	0.0669 70	APO
2018 VW	?	1.444	0.4 89	0	0	6.57 7	0.0144 58	APO

2018 VV	?	1.556	0.3 07	0	0	9.31 6	0.0974 42	AM O
2018 VU	?	1.235	0.1 99	0	0	9.04 0	0.0651 99	APO
2018 VT	?	1.281	0.2 64	0	0	7.67 2	0.0231 74	APO
2018 VS	?	2.003	0.4 82	0	0	6.20 7	0.0546 90	AM O
2018 VR	?	1.757	0.4 29	0	0	5.56 8	0.0739 20	APO
2018 VQ	?	2.637	0.3 58	0	0	9.62 5		MB A
2018 VP	?	2.082	0.3 30	0	0	7.19 6		MC A
2018 VO	?	2.252	0.3 32	0	0	7.89 6		MC A
2018 VN	?	1.749	0.0 25	0	0	12.7 21		IMB
2018 VM	?	1.731	0.1 43	0	0	10.1 25		MC A
2018 VL	?	1.036	0.2 35	0	0	5.71 7	0.0035 24	APO
2018 VK	?	1.832	0.5 50	0	0	6.45 4	0.0041 17	APO
2018 VJ	?	2.588	0.3 87	0	0	11.9 38		MC A
2018 VH	?	1.767	0.1 33	0	0	8.46 5		MC A
2018 VG	?	0.766	0.3 62	0	0	9.12 3	0.0014 94	ATE
2018 VF	?	1.850	0.4 80	0	0	5.60 3	0.0036 85	APO
2018 VE	?	1.247	0.1 83	0	0	4.64 2	0.0261 98	AM O
2018 VD	?	1.068	0.4 20	0	0	7.63 8	0.0041 36	APO

2018 VC	?	1.126	0.1 69	0	0	4.54 7	0.0023 52	APO
2018 VB	?	1.115	0.2 81	0	0	6.19 3	0.0114 97	APO
2018 VA	?	1.196	0.1 49	0	0	4.14 8	0.0264 61	AM O
2018 UH3	?	3.092	0.4 03	0	0	11.1 34		MB A
2018 UG3	?	1.659	0.4 22	0	0	5.56 9	0.0269 92	APO
2018 UF3	?	2.278	0.2 29	0	0	12.0 21		MB A
2018 UE3	?	1.504	0.3 32	0	0	7.06 4	0.0893 00	APO
2018 UD3	?	1.773	0.4 57	0	0	5.51 0	0.0041 84	APO
2018 UC3	?	1.068	0.0 16	0	0	8.30 8	0.0597 45	AM O
2018 UB3	?	1.623	0.4 48	0	0	5.63 1	0.0025 56	APO
2018 UA3	?	1.198	0.4 24	0	0	6.70 3	0.0430 18	APO
2018 UZ2	?	1.932	0.0 56	0	0	10.4 20		IMB
2018 UY2	?	2.562	0.3 84	0	0	9.37 6		MC A
2018 UX2	?	1.843	0.0 97	0	0	9.63 2		MC A
2018 UW2	?	1.869	0.0 52	0	0	10.0 91		IMB
2018 UV2	?	1.912	0.0 51	0	0	10.2 69		IMB
2018 UU2	?	1.887	0.0 37	0	0	10.2 31		IMB
2018 UT2	?	2.610	0.4 36	0	0	10.7 85		MC A

2018 US2	?	2.978	0.6 58	0	0	7.25 6	0.0485 63	AM O
2018 UR2	?	1.811	0.4 07	0	0	12.6 16	0.0851 94	AM O
2018 UQ2	?	2.798	0.6 49	0	0	7.88 8	0.0676 71	APO
2018 UP2	?	2.491	0.4 61	0	0	10.6 51		MC A
2018 UO2	?	1.953	0.0 68	0	0	10.0 35		IMB
2018 UN2	?	2.388	0.2 61	0	0	9.41 1		MB A
2018 UM2	?	2.612	0.3 79	0	0	9.90 8		MC A
2018 UL2	?	2.681	0.3 62	0	0	9.53 4		MB A
2018 UK2	?	1.482	0.2 90	0	0	17.1 01	0.0592 62	AM O
2018 UJ2	?	1.969	0.5 46	0	0	7.61 7	0.0232 11	APO
2018 UE2	?	1.986	0.0 96	0	0	9.64 4	0.8700 19	IMB
2018 UD2	?	2.608	0.4 56	0	0	7.61 5	0.4327 47	MC A
2018 UC2	?	1.577	0.4 11	0	0	10.6 18	0.0204 77	APO (PH A)
2018 UB2	?	1.889	0.0 36	0	0	10.6 35	0.8723 04	IMB
2018 UA2	?	2.309	0.3 46	0	0	7.82 3	0.5342 95	MC A
2018 UZ1	?	2.468	0.5 05	0	0	7.04 4	0.2137 02	AM O
2018 UY1	?	0.883	0.3 03	0	0	7.47 4	0.0081 10	ATE
2018 UX1	?	1.213	0.1 12	0	0	8.54 0	0.0964 51	AM O

2018 UW1	?	1.962	0.5 43	0	0	6.15 8	0.0045 32	APO
2018 UV1	?	0.935	0.2 47	0	0	10.1 64	0.1636 51	ATE
2018 UU1	?	2.414	0.3 74	0	0	11.0 89	0.6449 44	MC A
2018 UT1	?	2.679	0.4 85	0	0	9.42 5	0.3956 67	MC A
2018 US1	?	1.656	0.3 98	0	0	5.57 1	0.0047 99	APO
2018 UR1	?	2.631	0.5 98	0	0	19.0 48	0.1613 12	AM O
2018 UQ1	?	1.619	0.4 93	0	0	6.14 0	0.0105 14	APO (PH A)
2018 UP1	?	2.609	0.4 37	0	0	7.97 1	0.4958 06	MC A
2018 UO1	?	2.103	0.6 87	0	0	7.87 8	0.0042 99	APO
2018 UN1	?	2.253	0.7 91	0	0	9.01 8	0.0720 62	APO
2018 UM1	?	1.144	0.1 74	0	0	4.36 9	0.0021 94	APO
2018 UL1	?	1.263	0.1 99	0	0	9.40 8	0.0478 46	APO
2018 UK1	?	2.443	0.5 93	0	0	6.32 7	0.0014 74	APO
2018 UJ1	?	1.296	0.1 88	0	0	5.69 8	0.0666 33	AM O
2018 UH1	?	1.767	0.5 39	0	0	6.48 5	0.0128 73	APO
2018 UG1	?	1.529	0.3 29	0	0	5.04 9	0.0297 36	AM O
2018 UF1	?	1.148	0.4 18	0	0	7.55 8	0.0050 86	APO
2018 UE1	?	1.021	0.0 12	0	0	5.05 9	0.0165 01	APO

2018 UD1	?	2.364	0.6 04	0	0	6.58 3	0.0260 54	APO
2018 UC1	?	1.258	0.1 61	0	0	6.25 8	0.0672 81	AM O
2018 UB1	?	7.569	0.5 05	0	0	12.0 19	2.7651 90	CEN
2018 UA1	?	2.529	0.6 24	0	0	8.44 1	0.0432 70	APO (PH A)
2018 UZ	?	2.656	0.5 99	0	0	8.73 2	0.0809 35	AM O
2018 UY	?	1.250	0.5 33	0	0	7.72 3	0.0075 25	APO (PH A)
2018 UX	?	2.590	0.3 76	0	0	8.72 4	0.6208 41	MC A
2018 UW	?	2.632	0.4 74	0	0	7.73 0	0.4214 21	MC A
2018 UV	?	3.061	0.3 87	0	0	9.26 6	0.9055 13	MB A
2018 UU	?	2.272	0.3 89	0	0	7.56 1	0.3755 77	MC A
2018 UT	?	2.216	0.3 80	0	0	7.43 9	0.3911 79	MC A
2018 US	?	2.187	0.2 90	0	0	7.78 1	0.5518 05	MC A
2018 UR	?	2.188	0.3 46	0	0	7.49 6	0.4374 76	MC A
2018 UQ	?	1.734	0.0 96	0	0	10.3 02	0.6544 53	MC A
2018 UP	?	2.273	0.3 84	0	0	7.34 0	0.4027 15	MC A
2018 UO	?	2.245	0.4 15	0	0	7.19 6	0.3193 34	MC A
2018 UN	?	1.924	0.0 83	0	0	9.61 0	0.8247 49	IMB



2018 UM	?	1.954	0.0 54	0	0	10.1 86	0.8553 79	IMB
2018 UL	?	1.344	0.2 80	0	0	4.55 3	0.0004 42	APO
2018 UK	?	2.413	0.6 90	0	0	7.40 2	0.0046 28	APO
2018 UJ	?	2.463	0.5 56	0	0	6.95 8	0.1033 84	AM O
2018 UH	?	2.475	0.6 09	0	0	8.06 8	0.0135 58	APO
2018 UG	?	2.192	0.5 38	0	0	6.14 6	0.0117 13	APO
2018 UF	?	1.620	0.3 63	0	0	7.54 5	0.0838 04	AM O
2018 UE	?	1.266	0.4 77	0	0	7.79 2	0.0297 79	APO
2018 UD	?	2.743	0.5 36	0	0	8.03 2	0.3471 56	AM O
2018 UC	?	0.993	0.3 33	0	0	7.64 2	0.0027 61	ATE
2018 UB	?	1.944	0.5 91	0	0	7.11 7	0.0195 48	APO
2018 UA	?	1.390	0.4 47	0	0	6.23 1	0.0001 86	APO
2018 TS9	?	2.320	0.2 49	0	0	8.28 0		MB A
2018 TR9	?	2.408	0.1 67	0	0	9.12 6		MB A
2018 TP9	?	2.376	0.1 50	0	0	8.86 3		MB A
2018 TO9	?	3.204	0.2 04	0	0	10.0 98		OM B
2018 TN9	?	2.212	0.2 11	0	0	8.15 8		MB A
2018 TK9	?	2.523	0.3 16	0	0	9.06 5		MB A

2018 TJ9	?	2.594	0.2 75	0	0	9.40 9	MB A
2018 TH9	?	2.636	0.0 29	0	0	12.1 71	MB A
2018 TG9	?	2.680	0.2 77	0	0	10.2 95	MB A
2018 TF9	?	2.794	0.1 65	0	0	12.0 79	MB A
2018 TE9	?	2.632	0.3 12	0	0	9.16 9	MB A
2018 TD9	?	2.731	0.0 73	0	0	10.1 16	MB A
2018 TC9	?	2.682	0.0 66	0	0	10.0 27	MB A
2018 TB9	?	2.754	0.0 72	0	0	10.1 12	MB A
2018 TA9	?	3.269	0.1 68	0	0	10.9 95	OM B
2018 TZ8	?	2.853	0.1 08	0	0	10.1 01	MB A
2018 TW8	?	3.048	0.1 36	0	0	10.4 45	MB A
2018 TV8	?	2.732	0.1 65	0	0	9.95 0	MB A
2018 TU8	?	2.425	0.1 33	0	0	9.27 9	MB A
2018 TT8	?	3.102	0.1 48	0	0	10.3 57	MB A
2018 TS8	?	2.761	0.2 01	0	0	9.57 1	MB A
2018 TR8	?	2.694	0.1 68	0	0	9.59 7	MB A
2018 TO8	?	2.814	0.0 29	0	0	10.4 70	MB A
2018 TN8	?	3.042	0.1 62	0	0	10.2 14	MB A

2018 TL8	?	2.669	0.2 62	0	0	9.72 0	MB A
2018 TK8	?	2.192	0.2 25	0	0	8.17 3	MB A
2018 TJ8	?	2.760	0.0 88	0	0	10.0 13	MB A
2018 TH8	?	3.059	0.1 47	0	0	10.7 35	MB A
2018 TG8	?	2.208	0.2 69	0	0	7.84 5	MC A
2018 TF8	?	2.592	0.3 26	0	0	8.53 0	MB A
2018 TC8	?	2.567	0.1 04	0	0	10.5 78	MB A
2018 TZ7	?	3.061	0.3 49	0	0	11.2 05	MB A
2018 TY7	?	2.557	0.2 73	0	0	8.73 9	MB A
2018 TW7	?	3.186	0.2 38	0	0	11.0 25	MB A
2018 TV7	?	2.680	0.2 61	0	0	9.50 8	MB A
2018 TU7	?	3.148	0.2 00	0	0	11.0 69	MB A
2018 TS7	?	2.778	0.2 00	0	0	9.69 9	MB A
2018 TR7	?	3.962	0.2 15	0	0	10.8 10	OM B
2018 TN7	?	2.733	0.1 35	0	0	10.2 39	MB A
2018 TM7	?	2.235	0.2 07	0	0	8.39 0	MB A
2018 TL7	?	2.321	0.1 40	0	0	9.08 2	MB A
2018 TK7	?	2.852	0.0 82	0	0	10.1 51	MB A

2018 TE7	?	2.284	0.2 49	0	0	8.29 0		MB A
2018 TC7	?	2.212	0.2 29	0	0	8.16 4		MB A
2018 TB7	?	2.245	0.2 01	0	0	11.1 60		MB A
2018 TZ6	?	3.157	0.2 67	0	0	10.6 13		MB A
2018 TY6	?	2.774	0.1 78	0	0	10.1 52		MB A
2018 TW6	?	3.093	0.1 53	0	0	10.1 41		MB A
2018 TV6	?	1.873	0.0 87	0	0	10.2 61		IMB
2018 TU6	?	1.834	0.1 08	0	0	10.0 57	0.6995 87	MC A
2018 TT6	?	1.215	0.2 07	0	0	4.74 4	0.0047 66	APO
2018 TS6	?	0.898	0.2 14	0	0	6.84 4	0.0037 01	ATE
2018 TR6	?	2.206	0.4 72	0	0	6.51 9	0.1672 52	AM O
2018 TQ6	?	2.438	0.3 92	0	0	8.78 8	0.5006 08	MC A
2018 TP6	?	1.854	0.0 73	0	0	10.0 69	0.7155 05	IMB
2018 TO6	?	2.736	0.5 67	0	0	7.85 4	0.2991 69	AM O
2018 TN6	?	1.648	0.2 98	0	0	6.53 0	0.2135 92	AM O
2018 TM6	?	1.951	0.5 76	0	0	7.05 2	0.0115 00	APO
2018 TL6	?	8.222	0.7 90	0	0	51.6 65	0.7410 81	CEN
2018 TK6	?	1.170	0.3 80	0	0	6.41 0	0.0255 61	APO

2018 TJ6	?	1.139	0.2 32	0	0	6.88 2	0.0030 66	APO
2018 TH6	?	1.357	0.2 87	0	0	5.49 4	0.0541 42	APO
2018 TG6	?	1.064	0.0 84	0	0	3.97 2	0.0069 78	APO
2018 TF6	?	2.090	0.4 97	0	0	6.04 5	0.0564 11	AM O
2018 TE6	?	1.127	0.0 26	0	0	9.19 2	0.1225 06	AM O
2018 TD6	?	1.179	0.2 41	0	0	5.07 5	0.0117 35	APO
2018 TC6	?	2.350	0.4 50	0	0	7.09 2	0.2773 66	AM O
2018 TB6	?	1.915	0.2 98	0	0	9.82 9	0.3857 14	MC A
2018 TA6	?	2.615	0.4 11	0	0	9.04 7	0.5445 93	MC A
2018 TZ5	?	1.985	0.5 50	0	0	6.20 0	0.0108 17	APO
2018 TY5	?	0.929	0.5 11	0	0	12.7 86	0.0282 48	ATE
2018 TX5	?	2.176	0.4 46	0	0	6.59 6	0.1899 66	AM O
2018 TW5	?	2.232	0.4 45	0	0	7.00 9	0.2586 92	AM O
2018 TV5	?	1.465	0.5 28	0	0	7.06 0	0.0001 54	APO
2018 TU5	?	2.264	0.4 17	0	0	10.7 07	0.3328 97	MC A
2018 TT5	?	1.629	0.4 74	0	0	6.06 4	0.0323 61	APO
2018 TS5	?	1.605	0.2 00	0	0	6.46 1	0.2894 09	AM O
2018 TR5	?	2.480	0.5 51	0	0	8.53 8	0.1327 90	AM O

2018 TQ5	?	2.173	0.5 71	0	0	17.4 67	0.1216 94	APO
2018 TP5	?	1.683	0.4 72	0	0	5.82 1	0.0012 50	APO
2018 TO5	?	2.338	0.5 11	0	0	7.00 2	0.1409 15	AM O
2018 TN5	?	2.202	0.4 54	0	0	7.18 8	0.2250 00	AM O
2018 TM5	?	2.366	0.3 50	0	0	8.06 2	0.5226 73	MC A
2018 TL5	?	2.251	0.4 00	0	0	7.31 9	0.3585 42	MC A
2018 TK5	?	2.385	0.3 37	0	0	10.0 88	0.6760 20	MC A
2018 TJ5	?	2.793	0.4 48	0	0	9.29 9	0.5666 12	MC A
2018 TH5	?	1.838	0.0 06	0	0	11.3 80	0.8237 33	IMB
2018 TG5	?	2.103	0.4 78	0	0	6.30 6	0.1255 38	AM O
2018 TF5	?	0.904	0.3 68	0	0	8.35 5	0.0133 88	ATE
2018 TE5	?	1.607	0.3 48	0	0	5.74 9	0.0578 93	AM O
2018 TD5	?	1.641	0.5 36	0	0	7.70 4	0.0261 41	APO
2018 TC5	?	1.041	0.0 39	0	0	7.50 3	0.0330 09	APO
2018 TB5	?	1.126	0.5 31	0	0	8.43 0	0.0057 57	APO
2018 TA5	?	2.607	0.8 03	0	0	8.75 4	0.0306 81	APO
2018 TZ4	?	2.381	0.6 56	0	0	7.64 9	0.0228 86	APO
2018 TY4	?	2.411	0.6 09	0	0	6.52 2	0.0009 72	APO

2018 TX4	?	1.889	0.7 09	0	0	8.88 1	0.1970 63	APO
2018 TW4	?	2.165	0.4 70	0	0	6.68 9	0.1382 82	AM O
2018 TV4	?	1.448	0.4 95	0	0	7.02 7	0.0505 03	APO
2018 TU4	?	0.971	0.2 13	0	0	8.83 3	0.0287 50	ATE
2018 TT4	?	1.265	0.3 17	0	0	8.35 8	0.0090 78	APO
2018 TS4	?	1.104	0.1 07	0	0	3.99 3	0.0071 82	APO
2018 TR4	?	1.081	0.1 60	0	0	8.45 4	0.0173 43	APO
2018 TQ4	?	2.516	0.4 06	0	0	8.01 6	0.4789 58	MC A
2018 TP4	?	1.776	0.2 46	0	0	9.58 3	0.3992 81	MC A
2018 TO4	?	1.901	0.0 95	0	0	10.8 92	0.7786 61	IMB
2018 TN4	?	2.426	0.4 16	0	0	7.59 9	0.4202 34	MC A
2018 TM4	?	1.931	0.0 86	0	0	10.0 53	0.8373 65	IMB
2018 TL4	?	1.880	0.0 79	0	0	9.41 7	0.7548 16	IMB
2018 TK4	?	2.896	0.5 49	0	0	10.8 83	0.3230 19	MC A
2018 TJ4	?	2.452	0.6 95	0	0	7.42 2	0.0159 52	APO
2018 TH4	?	2.529	0.4 60	0	0	11.0 83	0.5413 99	MC A
2018 TG4	?	1.639	0.0 31	0	0	11.7 12	0.5904 49	MC A
2018 TF4	?	2.593	0.3 41	0	0	12.4 32	0.8110 32	MB A

2018 TE4	?	2.345	0.6 23	0	0	7.02 4	0.0238 97	APO
2018 TD4	?	1.417	0.3 73	0	0	5.44 5	0.0597 49	APO
2018 TC4	?	1.449	0.3 63	0	0	8.22 1	0.0506 22	APO
2018 TB4	?	2.629	0.5 29	0	0	10.3 82	0.4113 18	AM O
2018 TA4	?	1.967	0.1 15	0	0	9.71 9	0.7572 08	IMB
2018 TZ3	?	1.880	0.1 19	0	0	9.89 7	0.7834 40	MC A
2018 TY3	?	3.171	0.3 21	0	0	11.7 18	1.2810 90	MB A
2018 TX3	?	2.591	0.3 68	0	0	9.09 8	0.7129 30	MC A
2018 TW3	?	1.871	0.0 38	0	0	11.9 03	0.8396 32	IMB
2018 TV3	?	2.603	0.3 33	0	0	13.5 38	0.7881 96	MB A
2018 TU3	?	2.097	0.3 52	0	0	7.17 1	0.3534 87	MC A
2018 TT3	?	1.818	0.0 41	0	0	10.0 15	0.7798 89	IMB
2018 TS3	?	2.147	0.3 44	0	0	7.31 9	0.4122 42	MC A
2018 TR3	?	1.131	0.1 10	0	0	4.55 0	0.0142 96	APO
2018 TQ3	?	1.814	0.4 51	0	0	5.64 1	0.0171 22	APO
2018 TP3	?	1.694	0.3 90	0	0	10.3 33	0.0331 29	AM O
2018 TO3	?	1.131	0.1 50	0	0	8.43 3	0.0249 65	APO
2018 TN3	?	1.859	0.4 70	0	0	5.55 5	0.0108 84	APO



2018 TM3	?	1.360	0.2 68	0	0	4.48 6	0.0070 73	APO
2018 TL3	?	1.207	0.1 63	0	0	13.2 88	0.1039 39	APO
2018 TK3	?	1.488	0.1 66	0	0	10.2 78	0.2450 40	AM O
2018 TJ3	?	0.951	0.3 48	0	0	8.45 3	0.0585 41	ATE
2018 TH3	?	1.221	0.2 14	0	0	4.46 5	0.0039 48	APO
2018 TG3	?	2.362	0.5 79	0	0	6.68 8	0.0238 24	APO
2018 TF3	?	2.136	0.7 14	0	0	8.19 9	0.0199 34	APO (PH A)
2018 TE3	?	2.036	0.4 62	0	0	6.72 1	0.1013 18	AM O
2018 TD3	?	1.245	0.4 57	0	0	6.86 1	0.0045 72	APO
2018 TC3	?	2.648	0.6 01	0	0	7.22 1	0.0766 06	AM O
2018 TB3	?	0.829	0.4 31	0	0	9.48 1	0.0091 66	ATE
2018 TA3	?	2.574	0.6 27	0	0	8.23 4	0.1780 54	APO
2018 TZ2	?	2.168	0.6 53	0	0	7.19 8	0.0050 46	APO
2018 TY2	?	2.292	0.8 41	0	0	9.70 7	0.0034 83	APO (PH A)
2018 TX2	?	1.747	0.5 92	0	0	11.2 15	0.0342 18	APO
2018 TW2	?	1.414	0.2 18	0	0	5.84 3	0.1069 82	AM O
2018 TV2	?	1.642	0.6 32	0	0	8.24 0	0.1677 00	APO

2018 TU2	?	2.155	0.4 33	0	0	6.80 1	0.2095 19	AM O
2018 TT2	?	1.271	0.3 27	0	0	5.85 1	0.0134 57	APO
2018 TS2	?	2.465	0.5 93	0	0	6.34 9	0.0160 15	APO
2018 TR2	?	1.799	0.3 02	0	0	6.27 7	0.2674 91	AM O
2018 TQ2	?	2.222	0.5 31	0	0	6.54 5	0.0515 95	AM O
2018 TP2	?	2.522	0.5 57	0	0	6.71 2	0.1340 54	AM O
2018 TO2	?	1.101	0.5 95	0	0	17.0 79	0.5403 72	APO
2018 TN2	?	2.565	0.5 39	0	0	14.0 71	0.2056 67	AM O
2018 TM2	?	2.494	0.5 59	0	0	6.90 3	0.1099 41	AM O
2018 TL2	?	2.691	0.5 96	0	0	6.81 0	0.1043 00	AM O
2018 TK2	?	2.612	0.5 90	0	0	6.81 0	0.0832 90	AM O
2018 TJ2	?	2.661	0.4 19	0	0	8.31 9	0.5790 50	MC A
2018 TH2	?	1.703	0.0 94	0	0	11.4 11	0.5606 41	MC A
2018 TG2	?	1.333	0.3 27	0	0	5.18 2	0.0029 40	APO
2018 TF2	?	1.703	0.4 20	0	0	6.88 8	0.0185 80	APO
2018 TE2	?	2.694	0.6 79	0	0	7.06 7	0.0030 30	APO
2018 TD2	?	0.843	0.4 15	0	0	9.52 2	0.0211 64	ATE
2018 TC2	?	1.131	0.1 44	0	0	6.66 8	0.0418 51	APO

2018 TB2	?	2.778	0.6 83	0	0	7.14 0	0.0072 42	APO
2018 TA2	?	0.978	0.1 73	0	0	5.34 4	0.0192 32	ATE
2018 TZ1	?	1.098	0.1 44	0	0	5.55 5	0.0376 61	APO
2018 TY1	?	2.470	0.6 07	0	0	6.91 5	0.0140 23	APO
2018 TX1	?	1.254	0.1 45	0	0	8.47 2	0.0867 54	AM O
2018 TW1	?	1.898	0.4 71	0	0	6.10 0	0.0101 04	APO
2018 TV1	?	2.489	0.5 75	0	0	6.98 1	0.0624 41	AM O
2018 TU1	?	2.498	0.5 45	0	0	6.76 5	0.1504 02	AM O
2018 TT1	?	2.752	0.6 04	0	0	12.3 40	0.1453 07	AM O
2018 TS1	?	1.379	0.4 23	0	0	5.98 4	0.0078 17	APO
2018 TR1	?	2.482	0.6 36	0	0	6.74 7	0.0237 72	APO
2018 TQ1	?	1.320	0.2 31	0	0	5.45 6	0.0604 23	APO
2018 TP1	?	2.162	0.6 71	0	0	7.47 9	0.0061 94	APO
2018 TO1	?	1.535	0.3 96	0	0	5.34 3	0.0082 81	APO (PH A)
2018 TN1	?	2.133	0.4 69	0	0	6.63 8	0.1386 98	AM O
2018 TM1	?	1.900	0.0 94	0	0	10.4 50	0.7732 96	IMB
2018 TL1	?	2.345	0.4 09	0	0	8.20 6	0.3897 37	MC A
2018 TK1	?	2.560	0.4 70	0	0	9.99 5	0.5835 49	MC A

2018 TJ1	?	2.479	0.3 57	0	0	8.15 6	0.6037 88	MC A
2018 TH1	?	1.997	0.1 29	0	0	9.32 5	0.7594 70	IMB
2018 TG1	?	2.726	0.3 72	0	0	12.4 97	0.7859 88	MB A
2018 TF1	?	2.751	0.4 15	0	0	8.71 0	0.6135 88	MC A
2018 TE1	?	3.245	0.4 16	0	0	14.6 22	0.9060 66	OM B
2018 TD1	?	1.894	0.0 80	0	0	10.7 54	0.7487 53	IMB
2018 TC1	?	2.750	0.4 30	0	0	12.4 22	0.6551 21	MC A
2018 TB1	?	1.898	0.3 03	0	0	7.20 9	0.3402 94	MC A
2018 TA1	?	2.605	0.2 94	0	0	14.2 60	0.9662 00	MB A
2018 TZ	?	1.268	0.2 56	0	0	8.09 4	0.0039 98	APO
2018 TY	?	1.463	0.1 45	0	0	8.47 8	0.2537 13	AM O
2018 TX	?	1.815	0.4 37	0	0	5.63 3	0.0349 88	AM O
2018 TW	?	2.674	0.5 33	0	0	8.95 3	0.2553 03	AM O
2018 TV	?	1.643	0.4 33	0	0	5.52 2	0.0004 88	APO
2018 TU	?	1.378	0.4 37	0	0	6.21 4	0.0047 68	APO
2018 TT	?	1.537	0.3 08	0	0	6.73 2	0.2343 40	AM O
2018 TS	?	2.455	0.5 64	0	0	6.47 8	0.0841 75	AM O
2018 TR	?	1.058	0.1 85	0	0	5.27 5	0.0025 77	APO

2018 TQ	?	1.955	0.3 53	0	0	7.11 1	0.2582 55	AM O
2018 TP	?	1.362	0.4 64	0	0	8.47 7	0.0354 58	APO (PH A)
2018 TO	?	2.567	0.4 04	0	0	11.8 26	0.6360 17	MC A
2018 TN	?	2.015	0.1 99	0	0	11.8 64	0.6735 21	MC A
2018 TM	?	2.492	0.4 12	0	0	7.76 9	0.4867 14	MC A
2018 TL	?	2.598	0.4 13	0	0	8.70 9	0.5356 86	MC A
2018 TK	?	1.841	0.0 29	0	0	9.60 1	0.7894 14	IMB
2018 TJ	?	2.496	0.4 70	0	0	8.37 6	0.3344 79	MC A
2018 TH	?	2.601	0.3 52	0	0	8.45 8	0.7058 85	MB A
2018 TG	?	1.931	0.0 56	0	0	10.7 86	0.8925 83	IMB
2018 TF	?	1.967	0.0 46	0	0	11.3 27	0.9235 91	IMB
2018 TD	?	2.756	0.3 51	0	0	9.94 5	0.8841 68	MB A
2018 TC	?	1.229	0.2 25	0	0	4.55 5	0.0019 54	APO
2018 TB	?	2.394	0.5 82	0	0	6.38 5	0.0108 96	APO
2018 TA	?	1.291	0.1 88	0	0	4.75 2	0.0510 99	AM O
2018 SC16	?	2.762	0.2 58	0	0	9.36 7		MB A
2018 SB16	?	2.737	0.3 03	0	0	8.82 3		MB A
2018 SA16	?	2.944	0.2 02	0	0	9.77 2		MB A

2018 SZ15	?	2.689	0.209	0	0	9.518	MB A
2018 SX15	?	3.140	0.174	0	0	10.726	MB A
2018 SV15	?	2.323	0.228	0	0	10.718	MB A
2018 SU15	?	3.120	0.183	0	0	11.444	MB A
2018 SS15	?	2.882	0.162	0	0	9.835	MB A
2018 SQ15	?	2.563	0.211	0	0	9.721	MB A
2018 SP15	?	2.272	0.197	0	0	8.698	MB A
2018 SN15	?	2.695	0.291	0	0	9.272	MB A
2018 SM15	?	2.927	0.201	0	0	9.868	MB A
2018 SL15	?	3.973	0.351	0	0	10.510	OM B
2018 SK15	?	2.251	0.109	0	0	9.040	MB A
2018 SJ15	?	1.743	0.133	0	0	9.803	MC A
2018 SH15	?	2.180	0.163	0	0	8.554	MB A
2018 SG15	?	2.761	0.211	0	0	10.077	MB A
2018 SF15	?	2.432	0.252	0	0	8.599	MB A
2018 SE15	?	2.758	0.107	0	0	9.893	MB A
2018 SD15	?	2.289	0.211	0	0	8.381	MB A
2018 SC15	?	2.358	0.272	0	0	10.664	MB A

2018 SB15	?	2.044	0.1 13	0	0	11.6 65	MB A
2018 SA15	?	1.917	0.1 28	0	0	10.0 05	IMB
2018 SY14	?	2.602	0.2 15	0	0	9.05 1	MB A
2018 SX14	?	2.605	0.2 64	0	0	9.47 7	MB A
2018 SW14	?	2.972	0.0 99	0	0	10.6 72	MB A
2018 SV14	?	2.709	0.0 40	0	0	10.3 41	MB A
2018 SU14	?	3.177	0.3 28	0	0	11.8 90	MB A
2018 ST14	?	3.022	0.0 23	0	0	11.2 19	MB A
2018 SS14	?	2.363	0.1 89	0	0	8.77 9	MB A
2018 SR14	?	1.920	0.1 01	0	0	10.5 56	IMB
2018 SQ14	?	2.550	0.2 34	0	0	9.79 1	MB A
2018 SP14	?	2.772	0.3 27	0	0	8.98 1	MB A
2018 SO14	?	2.640	0.3 84	0	0	8.39 0	MC A
2018 SN14	?	3.084	0.2 82	0	0	11.3 28	MB A
2018 SM14	?	2.587	0.2 87	0	0	9.35 2	MB A
2018 SL14	?	2.328	0.2 08	0	0	8.86 6	MB A
2018 SK14	?	2.607	0.1 88	0	0	9.76 7	MB A
2018 SJ14	?	3.155	0.2 53	0	0	10.9 32	MB A

2018 SF14	?	3.173	0.2 24	0	0	10.3 66		MB A
2018 SE14	?	2.332	0.2 57	0	0	8.25 0		MB A
2018 SD14	?	2.369	0.2 02	0	0	11.2 92		MB A
2018 SC14	?	2.774	0.0 21	0	0	10.4 08		MB A
2018 SB14	?	2.759	0.0 41	0	0	10.2 76		MB A
2018 SA14	?	2.592	0.2 43	0	0	8.90 2		MB A
2018 SZ13	?	2.603	0.1 83	0	0	10.0 34		MB A
2018 SY13	?	2.944	0.0 40	0	0	10.8 50		MB A
2018 SX13	?	2.631	0.1 19	0	0	10.2 36		MB A
2018 SW13	?	2.589	0.2 24	0	0	8.97 2		MB A
2018 SV13	?	1.225	0.2 65	0	0	5.51 6	0.0010 83	APO
2018 SU13	?	2.671	0.1 87	0	0	10.1 24	1.1621 30	MB A
2018 SS13	?	2.697	0.2 02	0	0	9.82 2	1.1425 00	MB A
2018 SQ13	?	155.7 24	0.9 81	0	0	26.0 66	2.0150 80	TN O
2018 SG13	?	3.165	0.2 03	0	0	12.7 62	1.6763 40	MB A
2018 SF13	?	2.739	0.1 04	0	0	10.7 54	1.4879 00	MB A
2018 SE13	?	3.158	0.3 13	0	0	10.2 28	1.2288 00	MB A
2018 SD13	?	2.730	0.1 29	0	0	12.6 48	1.3914 00	MB A



2018 SB13	?	3.108	0.3 08	0	0	9.89 6	1.1883 30	MB A
2018 SA13	?	3.040	0.1 89	0	0	10.8 05	1.4905 40	MB A
2018 SZ12	?	2.168	0.1 82	0	0	8.27 5	0.7720 74	MB A
2018 SY12	?	2.786	0.2 14	0	0	9.41 9	1.1968 70	MB A
2018 SX12	?	2.373	0.2 63	0	0	8.46 5	0.7420 06	MB A
2018 SV12	?	2.563	0.1 43	0	0	9.89 1	1.1893 50	MB A
2018 SU12	?	1.961	0.1 09	0	0	9.90 8	0.7796 39	IMB
2018 SS12	?	2.346	0.2 06	0	0	8.50 7	0.8529 39	MB A
2018 SQ12	?	3.084	0.1 20	0	0	10.7 12	1.7114 90	MB A
2018 SO12	?	2.647	0.2 63	0	0	9.44 1	0.9955 40	MB A
2018 SN12	?	3.176	0.2 13	0	0	11.4 41	1.5065 20	MB A
2018 SM12	?	2.571	0.1 35	0	0	10.3 38	1.2747 30	MB A
2018 SL12	?	2.643	0.3 00	0	0	9.75 5	0.8936 17	MB A
2018 SJ12	?	2.710	0.2 06	0	0	10.1 62	1.1392 00	MB A
2018 SH12	?	2.724	0.3 42	0	0	8.92 8	0.8022 93	MB A
2018 SG12	?	2.201	0.1 86	0	0	8.42 2	0.8000 37	MB A
2018 SF12	?	2.796	0.2 96	0	0	9.34 6	0.9996 66	MB A
2018 SE12	?	2.294	0.2 56	0	0	10.6 72	0.7951 24	MB A

2018 SC12	?	2.329	0.1 29	0	0	9.05 9	1.0252 90	MB A
2018 SB12	?	2.190	0.1 53	0	0	8.52 0	0.8614 60	MB A
2018 SA12	?	2.697	0.2 31	0	0	9.93 5	1.0670 20	MB A
2018 SZ11	?	2.860	0.0 86	0	0	10.2 28	1.6273 70	MB A
2018 SY11	?	3.161	0.1 06	0	0	13.5 72	1.8834 90	MB A
2018 SX11	?	2.448	0.1 56	0	0	9.24 2	1.0548 50	MB A
2018 SW11	?	2.373	0.2 16	0	0	8.51 2	0.8467 23	MB A
2018 SV11	?	2.643	0.2 99	0	0	9.47 2	0.8589 11	MB A
2018 SU11	?	3.002	0.4 58	0	0	8.55 7	0.6333 41	MC A
2018 ST11	?	3.188	0.2 73	0	0	10.4 56	1.3308 30	MB A
2018 SR11	?	2.272	0.1 96	0	0	8.60 3	0.8270 40	MB A
2018 SQ11	?	2.587	0.2 59	0	0	10.0 88	0.9316 05	MB A
2018 SO11	?	3.010	0.3 25	0	0	9.24 7	1.0406 20	MB A
2018 SN11	?	2.755	0.2 58	0	0	13.9 54	1.1233 00	MB A
2018 SM11	?	3.159	0.2 76	0	0	10.6 72	1.3403 70	MB A
2018 SL11	?	2.724	0.2 58	0	0	9.85 3	1.0700 50	MB A
2018 SK11	?	2.718	0.1 24	0	0	9.74 7	1.3738 10	MB A
2018 SJ11	?	3.057	0.1 65	0	0	10.0 99	1.5416 20	MB A

2018 SH11	?	3.106	0.1 43	0	0	10.2 91	1.6545 70	MB A
2018 SG11	?	2.737	0.2 00	0	0	9.61 7	1.1914 60	MB A
2018 SF11	?	2.648	0.2 35	0	0	9.23 6	1.0140 70	MB A
2018 SE11	?	2.569	0.1 89	0	0	9.72 1	1.0734 30	MB A
2018 SB11	?	3.044	0.1 32	0	0	11.6 56	1.6350 30	MB A
2018 SA11	?	2.430	0.1 03	0	0	10.4 06	1.1997 00	MB A
2018 SZ10	?	2.572	0.1 48	0	0	9.58 0	1.1919 10	MB A
2018 SY10	?	2.276	0.2 35	0	0	8.33 7	0.7472 53	MB A
2018 SX10	?	3.166	0.0 64	0	0	11.2 32	1.9625 90	MB A
2018 SW10	?	2.870	0.1 45	0	0	11.1 46	1.5062 00	MB A
2018 SV10	?	2.300	0.1 67	0	0	8.82 1	0.9058 27	MB A
2018 SU10	?	2.328	0.2 19	0	0	8.39 0	0.8051 42	MB A
2018 SR10	?	2.430	0.1 92	0	0	8.98 5	0.9611 98	MB A
2018 SP10	?	3.177	0.3 38	0	0	12.3 76	1.1963 00	MB A
2018 SO10	?	2.680	0.2 79	0	0	9.70 0	0.9693 55	MB A
2018 SN10	?	2.661	0.2 11	0	0	9.29 2	1.0878 90	MB A
2018 SM10	?	2.724	0.2 12	0	0	9.97 2	1.1729 80	MB A
2018 SK10	?	3.151	0.0 76	0	0	10.9 77	1.9275 60	MB A

2018 SH10	?	3.190	0.2 83	0	0	10.3 97	1.3196 30	MB A
2018 SG10	?	2.970	0.1 57	0	0	10.5 44	1.5371 50	MB A
2018 SF10	?	3.068	0.2 29	0	0	10.5 87	1.3759 80	MB A
2018 SE10	?	2.581	0.1 95	0	0	9.44 3	1.0915 00	MB A
2018 SD10	?	2.437	0.2 59	0	0	9.67 3	0.8519 17	MB A
2018 SC10	?	2.168	0.2 35	0	0	8.05 6	0.6638 96	MC A
2018 SA10	?	2.325	0.1 78	0	0	8.59 9	0.9024 06	MB A
2018 SZ9	?	2.606	0.2 70	0	0	10.2 33	0.8999 18	MB A
2018 SY9	?	3.084	0.2 40	0	0	9.74 9	1.3414 70	MB A
2018 SW9	?	2.162	0.2 85	0	0	7.88 6	0.5610 73	MC A
2018 SU9	?	3.165	0.3 02	0	0	11.7 68	1.3533 20	MB A
2018 ST9	?	2.663	0.1 16	0	0	12.5 36	1.4926 60	MB A
2018 SS9	?	2.560	0.0 54	0	0	12.0 07	1.4357 90	MB A
2018 SR9	?	3.152	0.0 39	0	0	11.0 57	2.0371 90	MB A
2018 SQ9	?	3.298	0.1 40	0	0	10.5 39	1.8357 40	OM B
2018 SP9	?	2.848	0.1 91	0	0	9.90 7	1.3082 50	MB A
2018 SO9	?	2.741	0.2 23	0	0	9.56 2	1.1170 10	MB A
2018 SN9	?	2.180	0.2 03	0	0	8.19 2	0.7307 95	MB A

2018 SM9	?	2.288	0.2 33	0	0	8.24 2	0.7404 25	MB A
2018 SL9	?	3.908	0.3 08	0	0	10.6 11	1.7021 80	OM B
2018 SK9	?	2.659	0.0 54	0	0	12.2 53	1.6151 60	MB A
2018 SJ9	?	2.570	0.2 66	0	0	12.9 58	0.9904 86	MB A
2018 SH9	?	2.686	0.3 07	0	0	9.92 3	0.9361 57	MB A
2018 SE9	?	3.171	0.3 06	0	0	10.0 97	1.2356 50	MB A
2018 SD9	?	2.673	0.2 83	0	0	8.95 6	0.9126 71	MB A
2018 SC9	?	2.596	0.2 94	0	0	8.71 1	0.8367 97	MB A
2018 SB9	?	1.911	0.0 21	0	0	11.7 66	0.8973 33	IMB
2018 SA9	?	3.070	0.2 91	0	0	10.3 42	1.1998 30	MB A
2018 SW8	?	3.062	0.1 47	0	0	10.5 17	1.6168 00	MB A
2018 SV8	?	2.416	0.3 10	0	0	8.93 0	0.7056 49	MB A
2018 SU8	?	2.730	0.2 27	0	0	9.45 9	1.1120 40	MB A
2018 ST8	?	2.676	0.1 52	0	0	9.57 6	1.2723 90	MB A
2018 SS8	?	2.991	0.2 04	0	0	10.5 36	1.4268 70	MB A
2018 SR8	?	2.617	0.2 16	0	0	9.96 9	1.0581 80	MB A
2018 SQ8	?	2.560	0.3 47	0	0	8.46 1	0.6682 42	MB A
2018 SP8	?	2.655	0.3 64	0	0	8.63 5	0.7260 20	MB A

2018 SO8	?	2.787	0.1 98	0	0	10.3 09	1.2347 90	MB A
2018 SN8	?	2.422	0.1 04	0	0	9.48 0	1.1875 60	MB A
2018 SM8	?	2.660	0.2 60	0	0	9.87 6	0.9594 65	MB A
2018 SL8	?	2.629	0.1 53	0	0	10.4 08	1.2290 50	MB A
2018 SK8	?	3.112	0.1 85	0	0	12.7 12	1.6572 80	MB A
2018 SJ8	?	2.654	0.1 36	0	0	10.4 54	1.2880 40	MB A
2018 SH8	?	3.089	0.1 52	0	0	11.0 94	1.6297 40	MB A
2018 SG8	?	2.643	0.1 84	0	0	9.36 0	1.1694 60	MB A
2018 SF8	?	2.577	0.2 06	0	0	9.66 4	1.0800 20	MB A
2018 SE8	?	2.675	0.2 25	0	0	10.3 91	1.1490 80	MB A
2018 SD8	?	3.150	0.2 32	0	0	10.1 60	1.4478 00	MB A
2018 SB8	?	2.247	0.2 72	0	0	8.08 4	0.6248 07	MC A
2018 SA8	?	2.673	0.1 61	0	0	9.50 8	1.2298 10	MB A
2018 SZ7	?	2.404	0.1 97	0	0	8.67 7	0.9293 68	MB A
2018 SY7	?	2.628	0.2 84	0	0	9.49 3	0.8954 83	MB A
2018 SV7	?	3.178	0.1 44	0	0	13.1 31	1.7260 70	MB A
2018 SR7	?	2.367	0.2 63	0	0	8.47 5	0.7562 66	MB A
2018 SQ7	?	2.588	0.2 88	0	0	9.51 4	0.8794 52	MB A

2018 SO7	?	2.698	0.2 66	0	0	9.88 9	0.9900 02	MB A
2018 SM7	?	2.804	0.2 50	0	0	10.2 16	1.1598 80	MB A
2018 SL7	?	2.301	0.1 23	0	0	9.08 5	1.0302 20	MB A
2018 SK7	?	3.035	0.1 85	0	0	10.6 55	1.5033 90	MB A
2018 SJ7	?	2.639	0.3 04	0	0	9.42 9	0.8499 94	MB A
2018 SH7	?	2.149	0.1 94	0	0	8.13 9	0.7312 68	MB A
2018 SG7	?	2.285	0.2 08	0	0	8.61 4	0.8057 63	MB A
2018 SF7	?	3.192	0.1 49	0	0	13.1 80	1.7529 60	MB A
2018 SE7	?	3.076	0.2 75	0	0	10.4 15	1.2713 80	MB A
2018 SD7	?	1.858	0.0 85	0	0	10.1 89	0.6949 12	IMB
2018 SC7	?	3.026	0.3 57	0	0	9.36 9	0.9659 18	MB A
2018 SB7	?	2.720	0.1 10	0	0	10.4 28	1.4650 50	MB A
2018 SZ6	?	3.016	0.1 31	0	0	10.5 12	1.6082 00	MB A
2018 SY6	?	2.209	0.1 42	0	0	8.66 9	0.8975 03	MB A
2018 SX6	?	1.908	0.0 67	0	0	10.3 78	0.7946 89	IMB
2018 SW6	?	2.426	0.1 86	0	0	9.89 8	0.9783 85	MB A
2018 SV6	?	3.047	0.2 57	0	0	9.71 1	1.2707 30	MB A
2018 SU6	?	2.583	0.3 84	0	0	8.16 4	0.6044 45	MC A

2018 ST6	?	2.465	0.1 90	0	0	9.26 9	1.0173 60	MB A
2018 SR6	?	2.743	0.2 40	0	0	9.45 6	1.0947 00	MB A
2018 SP6	?	2.263	0.1 18	0	0	8.97 5	0.9822 10	MB A
2018 SO6	?	3.135	0.1 56	0	0	12.9 57	1.7245 40	MB A
2018 SN6	?	2.315	0.1 12	0	0	9.07 9	1.0698 60	MB A
2018 SM6	?	2.330	0.2 28	0	0	8.43 0	0.7855 57	MB A
2018 SK6	?	2.325	0.3 04	0	0	8.08 6	0.6197 97	MC A
2018 SH6	?	2.647	0.1 00	0	0	10.0 17	1.3686 50	MB A
2018 SG6	?	1.922	0.0 90	0	0	10.1 26	0.7661 05	IMB
2018 SF6	?	2.691	0.1 47	0	0	10.4 38	1.3462 90	MB A
2018 SD6	?	3.084	0.1 45	0	0	11.1 65	1.6883 20	MB A
2018 SB6	?	3.195	0.1 86	0	0	11.0 13	1.6374 20	MB A
2018 SA6	?	3.252	0.2 94	0	0	12.3 15	1.3712 60	OM B
2018 SX5	?	2.710	0.2 14	0	0	10.0 75	1.1465 10	MB A
2018 SW5	?	2.570	0.2 53	0	0	9.56 1	0.9632 49	MB A
2018 SV5	?	2.806	0.2 21	0	0	11.9 05	1.3356 70	MB A
2018 SU5	?	2.604	0.2 00	0	0	9.77 8	1.1090 60	MB A
2018 ST5	?	2.570	0.1 63	0	0	10.3 30	1.1629 30	MB A



2018 SS5	?	3.209	0.1 88	0	0	12.7 67	1.7070 00	OM B
2018 SQ5	?	2.609	0.1 69	0	0	9.36 1	1.1571 00	MB A
2018 SP5	?	2.185	0.2 19	0	0	8.06 4	0.6906 76	MB A
2018 SO5	?	2.355	0.1 72	0	0	8.82 1	0.9611 02	MB A
2018 SN5	?	3.186	0.1 43	0	0	10.5 98	1.7198 40	MB A
2018 SM5	?	2.612	0.3 18	0	0	9.20 4	0.8012 87	MB A
2018 SL5	?	2.727	0.1 81	0	0	10.0 90	1.2566 60	MB A
2018 SK5	?	2.386	0.2 61	0	0	8.90 7	0.7807 03	MB A
2018 SH5	?	3.006	0.3 96	0	0	9.48 5	0.8494 03	MB A
2018 SG5	?	2.722	0.2 93	0	0	9.33 7	0.9617 80	MB A
2018 SD5	?	2.788	0.0 99	0	0	10.4 26	1.5146 40	MB A
2018 SC5	?	2.386	0.1 36	0	0	9.26 4	1.0592 30	MB A
2018 SB5	?	2.896	0.1 62	0	0	10.0 45	1.4360 30	MB A
2018 SZ4	?	2.293	0.2 60	0	0	8.15 2	0.6919 94	MB A
2018 SY4	?	2.189	0.1 64	0	0	8.35 7	0.8177 60	MB A
2018 SX4	?	2.801	0.1 80	0	0	9.93 2	1.2934 90	MB A
2018 SW4	?	2.586	0.1 22	0	0	9.95 2	1.2973 50	MB A
2018 SV4	?	2.719	0.2 03	0	0	9.62 3	1.1701 00	MB A

2018 SU4	?	2.765	0.1 78	0	0	9.93 8	1.2875 70	MB A
2018 ST4	?	3.140	0.3 05	0	0	11.8 80	1.3097 30	MB A
2018 SS4	?	2.693	0.1 31	0	0	10.2 08	1.3619 40	MB A
2018 SR4	?	3.104	0.1 05	0	0	12.5 17	1.7639 30	MB A
2018 SQ4	?	2.651	0.2 78	0	0	9.38 2	0.9559 85	MB A
2018 SP4	?	2.707	0.1 81	0	0	9.68 6	1.2278 10	MB A
2018 SO4	?	3.022	0.2 42	0	0	9.65 2	1.2860 90	MB A
2018 SN4	?	3.139	0.1 83	0	0	10.5 04	1.5490 60	MB A
2018 SM4	?	3.110	0.1 25	0	0	10.9 20	1.7267 90	MB A
2018 SL4	?	2.292	0.1 48	0	0	8.68 5	0.9430 67	MB A
2018 SK4	?	2.603	0.3 46	0	0	11.5 62	0.7334 13	MB A
2018 SJ4	?	2.623	0.2 59	0	0	9.49 3	0.9416 94	MB A
2018 SH4	?	2.787	0.1 96	0	0	9.89 6	1.2276 00	MB A
2018 SG4	?	3.123	0.1 14	0	0	11.5 32	1.8046 00	MB A
2018 SF4	?	2.756	0.3 19	0	0	8.89 7	0.8814 95	MB A
2018 SE4	?	3.006	0.1 37	0	0	10.3 71	1.5963 00	MB A
2018 SD4	?	3.083	0.2 31	0	0	10.7 23	1.3887 20	MB A
2018 SC4	?	3.200	0.0 70	0	0	11.1 30	1.9851 70	MB A

2018 SB4	?	2.759	0.1 73	0	0	9.85 0	1.3060 00	MB A
2018 SA4	?	2.625	0.3 03	0	0	8.73 1	0.8188 98	MB A
2018 SY3	?	3.128	0.1 51	0	0	13.0 07	1.7172 10	MB A
2018 SX3	?	2.594	0.3 04	0	0	11.9 70	1.0219 10	MB A
2018 SW3	?	1.936	0.1 23	0	0	9.78 1	0.7532 94	IMB
2018 SV3	?	1.882	0.3 30	0	0	10.1 80	0.4955 07	AM O
2018 SU3	?	1.655	0.7 31	0	0	9.21 8	0.0181 37	APO
2018 ST3	?	3.131	0.5 34	0	0	9.14 7	0.5615 73	MC A
2018 SS3	?	2.521	0.4 21	0	0	10.8 58	0.6919 63	MC A
2018 SR3	?	1.328	0.2 31	0	0	4.80 9	0.0346 62	AM O
2018 SQ3	?	1.567	0.2 57	0	0	9.76 9	0.1843 54	AM O
2018 SP3	?	2.592	0.6 84	0	0	7.22 3	0.0367 82	APO
2018 SO3	?	2.687	0.6 95	0	0	7.61 7	0.0505 72	APO
2018 SN3	?	1.553	0.4 07	0	0	5.32 4	0.0032 48	APO
2018 SM3	?	2.272	0.5 42	0	0	6.70 2	0.0442 36	AM O
2018 SL3	?	1.580	0.5 24	0	0	6.65 8	0.0192 73	APO
2018 SK3	?	2.597	0.7 04	0	0	12.2 14	0.0478 99	APO (PH A)
2018 SJ3	?	1.441	0.2 78	0	0	4.73 6	0.0363 98	AM O

2018 SH3	?	1.609	0.3 99	0	0	8.13 8	0.0619 98	APO
2018 SG3	?	1.195	0.2 23	0	0	4.94 8	0.0166 50	APO
2018 SF3	?	1.012	0.1 52	0	0	5.45 2	0.0636 89	APO
2018 SE3	?	1.177	0.0 19	0	0	15.8 89	0.1743 82	AM O
2018 SD3	?	1.379	0.2 76	0	0	5.61 2	0.0131 41	APO
2018 SC3	?	1.690	0.4 05	0	0	5.93 2	0.0147 71	APO
2018 SB3	?	1.144	0.1 86	0	0	4.51 7	0.0091 94	APO
2018 SA3	?	2.706	0.7 06	0	0	9.57 3	0.2158 84	APO
2018 SZ2	?	2.227	0.4 98	0	0	6.39 6	0.1180 85	AM O
2018 SY2	?	0.774	0.3 84	0	0	13.5 57	0.1839 64	ATE
2018 SX2	?	1.353	0.2 97	0	0	5.62 3	0.0336 89	APO (PH A)
2018 SW2	?	1.989	0.1 92	0	0	11.3 89	0.6324 16	MC A
2018 SV2	?	2.580	0.4 15	0	0	11.1 65	0.6830 67	MC A
2018 SU2	?	2.868	0.4 39	0	0	9.06 7	0.6470 33	MC A
2018 ST2	?	2.575	0.2 36	0	0	13.9 58	0.9635 73	MB A
2018 SS2	?	2.776	0.2 31	0	0	14.5 46	1.2245 50	MB A
2018 SR2	?	2.442	0.5 71	0	0	6.42 3	0.0633 12	AM O
2018 SQ2	?	1.817	0.4 27	0	0	6.23 1	0.0423 05	AM O

2018 SP2	?	0.925	0.2 06	0	0	11.5 66	0.0028 79	ATE
2018 SO2	?	0.836	0.3 21	0	0	7.89 9	0.0050 37	ATE
2018 SN2	?	0.838	0.2 17	0	0	8.65 0	0.0173 61	ATE
2018 SM2	?	2.279	0.5 98	0	0	6.47 0	0.0131 81	APO
2018 SL2	?	2.203	0.3 97	0	0	7.38 0	0.3475 03	MC A
2018 SK2	?	2.561	0.4 12	0	0	11.8 82	0.6265 57	MC A
2018 SJ2	?	1.839	0.0 85	0	0	10.1 48	0.7056 84	IMB
2018 SH2	?	2.607	0.2 60	0	0	13.0 55	1.0446 80	MB A
2018 SG2	?	2.589	0.4 13	0	0	8.36 2	0.5304 98	MC A
2018 SF2	?	1.828	0.6 25	0	0	7.32 6	0.0081 14	APO
2018 SE2	?	1.107	0.1 99	0	0	8.35 9	0.0129 21	APO
2018 SD2	?	0.930	0.1 11	0	0	5.23 3	0.0010 85	ATE
2018 SC2	?	2.650	0.3 36	0	0	9.37 9	0.8092 82	MB A
2018 SB2	?	1.319	0.7 22	0	0	10.0 39	0.0005 87	APO
2018 SA2	?	2.230	0.5 22	0	0	6.71 3	0.0592 30	AM O
2018 SZ1	?	2.308	0.2 08	0	0	11.2 58	0.8575 85	MB A
2018 SY1	?	1.874	0.0 63	0	0	10.2 68	0.8393 32	IMB
2018 SX1	?	2.583	0.3 85	0	0	11.2 05	0.8096 35	MC A

2018 SW1	?	3.106	0.4 08	0	0	9.95 4	0.9227 15	MB A
2018 SV1	?	1.854	0.0 82	0	0	10.1 75	0.7075 45	IMB
2018 SU1	?	1.899	0.0 60	0	0	10.2 85	0.8060 77	IMB
2018 ST1	?	2.436	0.6 29	0	0	6.75 0	0.0080 12	APO
2018 SS1	?	1.515	0.3 32	0	0	8.53 4	0.0158 85	APO
2018 SR1	?	2.493	0.5 80	0	0	8.88 4	0.0428 19	AM O
2018 SQ1	?	2.088	0.6 67	0	0	7.60 5	0.0008 28	APO
2018 SP1	?	1.762	0.5 98	0	0	7.14 6	0.0018 53	APO
2018 SO1	?	1.716	0.1 76	0	0	12.1 93	0.4195 24	MC A
2018 SN1	?	2.659	0.3 92	0	0	8.32 2	0.6407 14	MC A
2018 SM1	?	1.621	0.3 81	0	0	5.06 7	0.0064 44	APO
2018 SL1	?	1.216	0.1 61	0	0	6.73 7	0.0206 85	AM O
2018 SK1	?	1.599	0.2 92	0	0	7.89 3	0.1511 27	AM O
2018 SJ1	?	1.236	0.2 56	0	0	9.79 9	0.0042 46	APO
2018 SH1	?	2.409	0.3 28	0	0	8.63 2	0.6571 43	MC A
2018 SG1	?	2.348	0.3 34	0	0	8.35 6	0.6089 70	MC A
2018 SF1	?	2.403	0.3 96	0	0	8.34 2	0.5120 37	MC A
2018 SE1	?	2.659	0.4 03	0	0	8.49 1	0.6008 36	MC A

2018 SD1	?	1.097	0.4 33	0	0	9.19 3	0.0208 65	APO
2018 SC1	?	2.295	0.5 58	0	0	6.39 5	0.0099 24	APO
2018 SB1	?	1.536	0.3 21	0	0	5.14 5	0.0693 15	AM O
2018 SA1	?	2.965	0.5 95	0	0	11.2 09	0.1921 24	AM O
2018 SZ	?	1.424	0.2 22	0	0	7.46 8	0.1368 22	AM O
2018 SY	?	3.089	0.3 79	0	0	10.1 64	0.9689 08	MB A
2018 SX	?	3.056	0.5 15	0	0	9.20 0	0.5514 68	MC A
2018 SW	?	2.541	0.3 09	0	0	9.21 0	0.8171 49	MB A
2018 SV	?	2.399	0.3 22	0	0	10.1 20	0.7137 70	MC A
2018 SN	?	1.684	0.3 10	0	0	6.97 2	0.1996 61	AM O
2018 SM	?	1.786	0.4 68	0	0	6.11 9	0.0000 20	APO
2018 SL	?	1.531	0.2 81	0	0	14.3 33	0.1346 61	AM O
2018 SK	?	1.397	0.3 21	0	0	5.55 0	0.0236 14	APO
2018 SJ	?	3.318	0.3 36	0	0	13.9 66	1.2245 70	OM B
2018 SH	?	2.735	0.5 07	0	0	8.87 9	0.4109 41	MC A
2018 SG	?	2.495	0.4 08	0	0	8.36 2	0.5276 88	MC A
2018 SF	?	3.118	0.3 66	0	0	10.5 13	1.0868 70	MB A
2018 SE	?	2.582	0.3 77	0	0	11.7 22	0.7993 92	MC A

2018 SD	?	1.930	0.3 03	0	0	6.75 7	0.3407 20	MC A
2018 SC	?	1.256	0.4 54	0	0	7.25 6	0.0017 80	APO
2018 SB	?	1.486	0.3 16	0	0	14.6 36	0.0494 82	AM O
2018 SA	?	1.794	0.0 76	0	0	11.1 25	0.6754 17	MC A
2018 RG38	?	2.421	0.2 46	0	0	8.78 8	0.8402 64	MB A
2018 RF38	?	3.205	0.3 02	0	0	11.8 79	1.3737 30	OM B
2018 RE38	?	2.668	0.1 56	0	0	10.2 59	1.2699 20	MB A
2018 RD38	?	2.591	0.2 80	0	0	10.0 18	0.8580 77	MB A
2018 RB38	?	2.981	0.1 96	0	0	10.0 97	1.4069 90	MB A
2018 RZ37	?	2.260	0.2 30	0	0	8.40 0	0.7313 68	MB A
2018 RY37	?	2.774	0.2 35	0	0	9.79 9	1.1300 90	MB A
2018 RX37	?	2.322	0.2 69	0	0	8.49 3	0.6885 26	MB A
2018 RU37	?	3.160	0.2 02	0	0	11.6 54	1.5346 70	MB A
2018 RT37	?	3.122	0.1 39	0	0	11.3 42	1.6869 20	MB A
2018 RS37	?	2.316	0.1 31	0	0	9.11 2	1.0289 40	MB A
2018 RR37	?	2.193	0.2 14	0	0	8.20 9	0.7152 78	MB A
2018 RQ37	?	2.147	0.1 71	0	0	8.54 0	0.7774 21	MB A
2018 RP37	?	2.701	0.1 83	0	0	9.58 6	1.2282 50	MB A



2018 RN37	?	3.130	0.0 84	0	0	11.5 61	1.8994 20	MB A
2018 RM37	?	2.718	0.3 41	0	0	8.80 9	0.8023 33	MB A
2018 RL37	?	2.727	0.1 45	0	0	10.4 57	1.3507 60	MB A
2018 RK37	?	2.273	0.2 15	0	0	8.66 1	0.8020 95	MB A
2018 RJ37	?	1.871	0.0 85	0	0	9.99 2	0.7371 57	IMB
2018 RH37	?	2.321	0.2 01	0	0	11.4 34	0.8761 48	MB A
2018 RF37	?	2.546	0.1 35	0	0	10.5 17	1.1888 20	MB A
2018 RE37	?	2.130	0.3 11	0	0	10.0 66	0.6325 92	MC A
2018 RD37	?	2.163	0.2 64	0	0	7.97 0	0.5915 65	MC A
2018 RC37	?	3.129	0.2 68	0	0	10.1 29	1.3280 80	MB A
2018 RB37	?	2.349	0.2 56	0	0	8.32 5	0.7447 11	MB A
2018 RA37	?	3.101	0.1 65	0	0	11.3 10	1.5823 60	MB A
2018 RZ36	?	2.324	0.2 35	0	0	8.74 9	0.7924 64	MB A
2018 RY36	?	2.754	0.1 99	0	0	10.2 06	1.2093 10	MB A
2018 RX36	?	3.080	0.2 05	0	0	10.1 80	1.4543 10	MB A
2018 RW36	?	2.674	0.2 63	0	0	9.41 0	0.9778 62	MB A
2018 RV36	?	2.398	0.3 25	0	0	8.05 7	0.6076 04	MC A
2018 RU36	?	2.731	0.2 18	0	0	9.50 8	1.1555 30	MB A

2018 RT36	?	2.313	0.1 48	0	0	8.99 5	0.9723 44	MB A
2018 RS36	?	2.286	0.2 32	0	0	8.59 5	0.7480 12	MB A
2018 RR36	?	3.057	0.1 88	0	0	11.3 02	1.4956 10	MB A
2018 RQ36	?	2.262	0.2 30	0	0	11.5 04	0.7855 73	MB A
2018 RP36	?	2.207	0.1 60	0	0	8.69 6	0.8534 12	MB A
2018 RO36	?	2.722	0.1 63	0	0	10.2 11	1.2852 40	MB A
2018 RM36	?	2.770	0.2 25	0	0	9.56 2	1.1424 30	MB A
2018 RL36	?	2.288	0.2 31	0	0	8.24 5	0.7513 29	MB A
2018 RK36	?	2.296	0.2 49	0	0	8.23 4	0.7196 60	MB A
2018 RJ36	?	3.180	0.1 45	0	0	13.3 15	1.7179 50	MB A
2018 RH36	?	2.568	0.1 81	0	0	10.1 90	1.1051 90	MB A
2018 RF36	?	2.639	0.2 75	0	0	9.62 1	0.9216 13	MB A
2018 RE36	?	1.778	0.0 76	0	0	10.1 61	0.6503 31	MC A
2018 RD36	?	2.604	0.3 30	0	0	8.43 5	0.7386 31	MB A
2018 RB36	?	2.980	0.2 46	0	0	10.5 24	1.2415 40	MB A
2018 RA36	?	2.682	0.2 70	0	0	9.63 4	0.9640 86	MB A
2018 RY35	?	1.896	0.1 34	0	0	9.52 6	0.7549 29	MC A
2018 RX35	?	2.423	0.1 44	0	0	9.26 1	1.0776 90	MB A

2018 RV35	?	2.839	0.1 45	0	0	10.8 76	1.4259 10	MB A
2018 RU35	?	3.136	0.2 56	0	0	10.0 34	1.3382 10	MB A
2018 RT35	?	3.152	0.2 28	0	0	10.2 05	1.4200 80	MB A
2018 RS35	?	2.285	0.2 41	0	0	8.27 9	0.7471 01	MB A
2018 RR35	?	2.714	0.1 17	0	0	9.77 3	1.3908 50	MB A
2018 RQ35	?	2.604	0.2 82	0	0	8.77 1	0.8544 17	MB A
2018 RP35	?	3.103	0.2 78	0	0	10.2 17	1.2330 30	MB A
2018 RO35	?	2.949	0.0 48	0	0	10.9 93	1.7942 30	MB A
2018 RN35	?	2.785	0.2 95	0	0	9.32 6	0.9719 94	MB A
2018 RM35	?	3.179	0.2 28	0	0	12.9 44	1.4625 60	MB A
2018 RL35	?	3.140	0.1 93	0	0	11.1 07	1.5289 10	MB A
2018 RK35	?	2.651	0.1 29	0	0	13.3 44	1.4077 00	MB A
2018 RJ35	?	2.244	0.1 98	0	0	10.9 48	0.8911 40	MB A
2018 RH35	?	2.458	0.2 08	0	0	9.66 3	0.9770 66	MB A
2018 RG35	?	2.281	0.2 30	0	0	8.65 7	0.7431 92	MB A
2018 RF35	?	1.866	0.0 15	0	0	10.4 66		IMB
2018 RE35	?	2.604	0.2 35	0	0	13.6 16	1.0280 60	MB A
2018 RD35	?	1.961	0.0 85	0	0	10.1 72	0.8815 39	IMB

2018 RC35	?	3.124	0.2 42	0	0	12.2 37	1.5166 40	MB A
2018 RB35	?	3.126	0.2 29	0	0	12.2 41	1.5556 90	MB A
2018 RZ34	?	3.165	0.2 86	0	0	10.4 81	1.2815 30	MB A
2018 RY34	?	2.353	0.2 63	0	0	8.38 1	0.7223 22	MB A
2018 RW34	?	2.205	0.2 31	0	0	8.14 7	0.6941 05	MB A
2018 RV34	?	3.178	0.2 75	0	0	10.5 39	1.3096 20	MB A
2018 RU34	?	3.111	0.0 54	0	0	11.5 29	1.9322 10	MB A
2018 RS34	?	2.265	0.1 29	0	0	8.91 3	0.9690 00	MB A
2018 RR34	?	2.674	0.2 54	0	0	9.65 0	1.0062 30	MB A
2018 RP34	?	3.478	0.1 42	0	0	11.1 26	1.9856 90	OM B
2018 RN34	?	2.773	0.2 89	0	0	9.50 8	0.9667 98	MB A
2018 RL34	?	2.283	0.2 89	0	0	8.30 0	0.6383 76	MC A
2018 RK34	?	2.609	0.2 77	0	0	9.56 7	0.9530 23	MB A
2018 RJ34	?	2.716	0.2 59	0	0	9.36 7	1.0308 70	MB A
2018 RH34	?	2.334	0.2 43	0	0	8.88 1	0.7536 46	MB A
2018 RG34	?	2.296	0.2 33	0	0	8.28 6	0.7452 47	MB A
2018 RF34	?	2.763	0.1 97	0	0	10.8 16	1.2090 60	MB A
2018 RE34	?	2.367	0.2 10	0	0	8.51 7	0.8636 88	MB A

2018 RD34	?	2.601	0.1 79	0	0	10.0 49	1.1361 40	MB A
2018 RC34	?	2.701	0.1 40	0	0	9.68 0	1.3260 40	MB A
2018 RB34	?	1.853	0.0 58	0	0	10.3 94	0.7541 09	IMB
2018 RA34	?	2.746	0.1 63	0	0	9.57 2	1.2824 60	MB A
2018 RZ33	?	2.364	0.1 43	0	0	9.33 9	1.0292 80	MB A
2018 RY33	?	2.451	0.2 18	0	0	8.67 4	0.9129 38	MB A
2018 RX33	?	3.144	0.1 00	0	0	10.8 14	1.8176 30	MB A
2018 RW33	?	2.726	0.0 36	0	0	10.2 38	1.6266 90	MB A
2018 RU33	?	3.087	0.2 22	0	0	10.6 65	1.4378 40	MB A
2018 RS33	?	2.309	0.2 13	0	0	8.41 4	0.8223 01	MB A
2018 RR33	?	2.335	0.2 82	0	0	8.10 8	0.6720 51	MB A
2018 RQ33	?	2.976	0.2 36	0	0	9.54 8	1.2738 30	MB A
2018 RP33	?	2.387	0.3 40	0	0	8.42 5	0.5668 66	MC A
2018 RO33	?	3.077	0.0 86	0	0	10.7 26	1.8150 20	MB A
2018 RN33	?	2.317	0.1 75	0	0	8.66 8	0.9274 87	MB A
2018 RM33	?	2.699	0.1 37	0	0	9.70 8	1.3271 30	MB A
2018 RJ33	?	2.176	0.2 61	0	0	7.96 1	0.6052 32	MC A
2018 RH33	?	3.119	0.2 63	0	0	10.1 45	1.3257 70	MB A

2018 RG33	?	2.747	0.2 18	0	0	10.0 80	1.1829 30	MB A
2018 RF33	?	2.774	0.2 03	0	0	9.74 7	1.2298 40	MB A
2018 RE33	?	2.650	0.3 98	0	0	8.48 7	0.6036 72	MC A
2018 RD33	?	3.067	0.2 29	0	0	10.0 36	1.3917 10	MB A
2018 RC33	?	2.574	0.1 72	0	0	10.0 50	1.1300 60	MB A
2018 RB33	?	3.946	0.3 52	0	0	10.3 71	1.5657 00	OM B
2018 RA33	?	2.291	0.2 24	0	0	8.27 1	0.7648 85	MB A
2018 RZ32	?	2.202	0.2 21	0	0	8.14 5	0.7178 73	MB A
2018 RX32	?	2.339	0.1 38	0	0	9.06 0	1.0186 00	MB A
2018 RW32	?	2.370	0.1 48	0	0	9.02 2	1.0054 80	MB A
2018 RV32	?	3.958	0.3 55	0	0	10.4 24	1.5586 60	OM B
2018 RU32	?	2.386	0.1 16	0	0	9.21 5	1.1011 10	MB A
2018 RT32	?	3.096	0.1 44	0	0	10.7 81	1.6361 00	MB A
2018 RS32	?	2.903	0.2 81	0	0	9.45 3	1.1114 40	MB A
2018 RR32	?	2.283	0.1 69	0	0	8.60 6	0.9035 28	MB A
2018 RQ32	?	2.680	0.2 67	0	0	9.46 1	0.9876 38	MB A
2018 RP32	?	2.569	0.1 55	0	0	9.52 8	1.1598 20	MB A
2018 RO32	?	2.600	0.1 17	0	0	10.5 32	1.2970 40	MB A

2018 RN32	?	1.990	0.0 88	0	0	10.9 09	0.8225 12	IMB
2018 RM32	?	3.166	0.1 58	0	0	11.0 99	1.6937 30	MB A
2018 RL32	?	3.139	0.4 60	0	0	10.6 40	0.7950 76	MB A
2018 RK32	?	3.140	0.1 53	0	0	10.5 64	1.6826 00	MB A
2018 RJ32	?	2.268	0.2 96	0	0	8.09 6	0.5924 73	MC A
2018 RH32	?	2.618	0.3 07	0	0	12.1 48	1.0081 30	MB A
2018 RF32	?	2.338	0.2 47	0	0	8.65 9	0.7771 71	MB A
2018 RE32	?	2.225	0.1 72	0	0	8.55 5	0.8536 62	MB A
2018 RC32	?	3.096	0.3 07	0	0	9.59 7	1.1448 20	MB A
2018 RB32	?	2.537	0.1 95	0	0	9.90 4	1.0566 80	MB A
2018 RA32	?	2.375	0.2 54	0	0	8.43 5	0.7794 24	MB A
2018 RY31	?	2.567	0.1 90	0	0	10.1 43	1.1340 90	MB A
2018 RW31	?	2.701	0.0 99	0	0	10.0 05	1.4438 70	MB A
2018 RU31	?	2.699	0.2 75	0	0	9.43 7	0.9701 14	MB A
2018 RT31	?	2.597	0.2 03	0	0	9.51 7	1.0841 90	MB A
2018 RR31	?	2.382	0.1 13	0	0	9.38 9	1.1005 40	MB A
2018 RQ31	?	3.105	0.2 54	0	0	10.5 73	1.3511 20	MB A
2018 RP31	?	2.582	0.1 83	0	0	9.91 4	1.1489 80	MB A

2018 RO31	?	2.364	0.2 43	0	0	9.22 9	0.7969 74	MB A
2018 RN31	?	2.685	0.2 60	0	0	9.89 9	0.9892 01	MB A
2018 RM31	?	2.643	0.2 92	0	0	9.49 7	0.8733 71	MB A
2018 RL31	?	2.643	0.3 05	0	0	9.34 2	0.8475 91	MB A
2018 RK31	?	2.593	0.2 22	0	0	9.84 2	1.0206 90	MB A
2018 RJ31	?	2.540	0.1 04	0	0	9.91 7	1.2730 70	MB A
2018 RG31	?	2.602	0.2 38	0	0	12.0 41	0.9823 76	MB A
2018 RF31	?	2.309	0.1 67	0	0	8.63 6	0.9219 23	MB A
2018 RE31	?	2.586	0.1 89	0	0	9.91 3	1.1004 50	MB A
2018 RD31	?	2.641	0.1 86	0	0	9.91 7	1.1917 00	MB A
2018 RC31	?	2.695	0.2 41	0	0	9.85 6	1.0301 00	MB A
2018 RB31	?	2.596	0.2 94	0	0	9.15 6	0.8654 67	MB A
2018 RA31	?	1.941	0.1 55	0	0	10.6 44	0.6704 61	MC A
2018 RW30	?	2.216	0.2 36	0	0	8.08 4	0.6992 56	MB A
2018 RV30	?	2.353	0.2 66	0	0	8.35 4	0.7103 90	MB A
2018 RU30	?	2.337	0.1 66	0	0	8.81 6	0.9445 70	MB A
2018 RT30	?	2.211	0.2 52	0	0	8.07 8	0.6475 45	MC A
2018 RS30	?	2.603	0.2 69	0	0	9.59 2	0.9080 25	MB A



2018 RQ30	?	3.093	0.0 69	0	0	11.5 49	1.8924 30	MB A
2018 RP30	?	2.286	0.2 42	0	0	8.16 1	0.7282 43	MB A
2018 RO30	?	2.403	0.2 38	0	0	8.58 8	0.8186 11	MB A
2018 RN30	?	3.033	0.2 35	0	0	10.5 38	1.3189 20	MB A
2018 RL30	?	2.375	0.2 07	0	0	8.81 0	0.8827 52	MB A
2018 RK30	?	2.364	0.2 50	0	0	8.76 3	0.8021 01	MB A
2018 RJ30	?	2.340	0.1 35	0	0	9.14 0	1.0374 10	MB A
2018 RH30	?	2.888	0.1 57	0	0	10.4 55	1.4599 20	MB A
2018 RG30	?	3.045	0.0 97	0	0	11.5 89	1.7418 80	MB A
2018 RF30	?	3.949	0.3 13	0	0	10.6 22	1.7158 20	OM B
2018 RE30	?	2.679	0.3 77	0	0	9.18 7	0.7209 00	MB A
2018 RD30	?	2.620	0.2 43	0	0	13.5 75	0.9926 13	MB A
2018 RC30	?	2.527	0.1 40	0	0	10.4 90	1.1789 70	MB A
2018 RA30	?	3.177	0.2 12	0	0	10.9 36	1.5546 20	MB A
2018 RY29	?	3.168	0.0 77	0	0	11.0 69	1.9400 50	MB A
2018 RW29	?	2.195	0.2 48	0	0	7.95 2		MC A
2018 RV29	?	3.091	0.1 90	0	0	11.2 81	1.5137 00	MB A
2018 RU29	?	3.108	0.3 39	0	0	10.0 49	1.0559 60	MB A

2018 RT29	?	1.903	0.0 81	0	0	10.2 33	0.7799 09	IMB
2018 RS29	?	3.134	0.1 47	0	0	10.4 41	1.6821 80	MB A
2018 RR29	?	2.798	0.2 39	0	0	9.58 4	1.1440 20	MB A
2018 RQ29	?	2.222	0.2 08	0	0	8.29 5	0.7574 92	MB A
2018 RP29	?	2.619	0.2 78	0	0	12.3 78	1.0580 00	MB A
2018 RO29	?	2.302	0.2 47	0	0	8.26 5	0.7366 54	MB A
2018 RN29	?	2.558	0.2 76	0	0	8.65 6	0.8363 86	MB A
2018 RM29	?	2.756	0.2 85	0	0	9.30 5	0.9820 53	MB A
2018 RL29	?	2.301	0.1 64	0	0	8.75 2	0.9059 80	MB A
2018 RK29	?	3.083	0.2 33	0	0	11.1 04	1.3702 70	MB A
2018 RJ29	?	3.106	0.1 57	0	0	11.2 35	1.6387 50	MB A
2018 RG29	?	3.971	0.3 21	0	0	10.4 98	1.7036 50	OM B
2018 RF29	?	3.225	0.1 90	0	0	12.9 27	1.6851 00	OM B
2018 RE29	?	2.692	0.3 47	0	0	8.60 9	0.7676 24	MB A
2018 RD29	?	2.381	0.2 72	0	0	8.99 4	0.7304 89	MB A
2018 RC29	?	2.655	0.1 04	0	0	10.6 42	1.4190 00	MB A
2018 RB29	?	3.115	0.1 67	0	0	10.1 78	1.5961 00	MB A
2018 RA29	?	2.418	0.2 56	0	0	8.41 4	0.7938 94	MB A

2018 RZ28	?	2.999	0.1 85	0	0	10.2 06	1.4471 20	MB A
2018 RY28	?	2.660	0.2 11	0	0	10.4 93	1.1004 60	MB A
2018 RX28	?	2.860	0.1 52	0	0	10.8 30	1.4249 70	MB A
2018 RT28	?	3.086	0.1 03	0	0	10.4 20	1.7526 70	MB A
2018 RS28	?	2.695	0.2 09	0	0	10.0 24	1.1407 60	MB A
2018 RQ28	?	2.846	0.2 97	0	0	9.43 4	1.0197 60	MB A
2018 RO28	?	2.637	0.1 58	0	0	10.2 34	1.2035 10	MB A
2018 RN28	?	2.628	0.2 90	0	0	9.21 5	0.9018 20	MB A
2018 RM28	?	2.325	0.1 24	0	0	9.62 7	1.0498 40	MB A
2018 RL28	?	3.090	0.3 43	0	0	9.76 7	1.0686 30	MB A
2018 RK28	?	2.325	0.1 36	0	0	9.01 7	1.0007 20	MB A
2018 RJ28	?	3.178	0.4 02	0	0	11.1 84	1.0097 00	MB A
2018 RH28	?	2.778	0.2 47	0	0	10.3 16	1.0871 20	MB A
2018 RG28	?	3.230	0.0 13	0	0	12.8 05	2.2183 00	OM B
2018 RC28	?	2.675	0.3 37	0	0	10.9 57	0.9229 01	MB A
2018 RB28	?	2.296	0.2 22	0	0	8.61 5	0.7931 17	MB A
2018 RZ27	?	2.705	0.3 48	0	0	8.70 7	0.7759 28	MB A
2018 RX27	?	1.176	0.2 65	0	0	12.2 15	0.0081 30	APO

2018 RW27	?	2.782	0.5 38	0	0	7.78 6	0.2792 44	AM O
2018 RV27	?	1.728	0.4 92	0	0	5.98 9	0.0001 46	APO
2018 RU27	?	2.743	0.2 79	0	0	9.44 2	1.0130 50	MB A
2018 RQ27	?	2.624	0.3 52	0	0	9.10 0	0.7042 10	MB A
2018 RP27	?	2.944	0.2 29	0	0	9.91 4	1.2758 60	MB A
2018 RN27	?	3.092	0.1 78	0	0	10.8 62	1.5275 30	MB A
2018 RK27	?	2.724	0.2 33	0	0	9.40 9		MB A
2018 RJ27	?	2.373	0.2 62	0	0	10.4 88	0.8384 38	MB A
2018 RH27	?	2.725	0.2 31	0	0	9.52 7	1.1038 10	MB A
2018 RF27	?	2.220	0.1 95	0	0	8.33 4	0.7890 38	MB A
2018 RE27	?	2.803	0.0 93	0	0	10.0 35	1.5508 20	MB A
2018 RD27	?	2.222	0.2 41	0	0	8.12 1	0.6791 80	MB A
2018 RC27	?	2.652	0.2 73	0	0	9.76 9	0.9183 30	MB A
2018 RB27	?	2.934	0.0 65	0	0	11.0 33	1.7470 10	MB A
2018 RA27	?	2.270	0.2 11	0	0	8.39 8	0.7771 74	MB A
2018 RZ26	?	2.754	0.0 55	0	0	10.2 13	1.5995 60	MB A
2018 RV26	?	2.238	0.2 24	0	0	8.25 2	0.7374 79	MB A
2018 RS26	?	2.748	0.0 63	0	0	10.1 66	1.5747 60	MB A

2018 RP26	?	2.821	0.2 00	0	0	9.52 8	1.2471 70	MB A
2018 RO26	?	2.867	0.0 59	0	0	10.3 73	1.6821 30	MB A
2018 RN26	?	2.410	0.1 76	0	0	8.87 1	1.0052 90	MB A
2018 RM26	?	2.684	0.3 88	0	0	8.42 1	0.6573 02	MC A
2018 RL26	?	3.081	0.0 81	0	0	11.0 14	1.8206 70	MB A
2018 RK26	?	2.321	0.2 49	0	0	8.31 7	0.7397 31	MB A
2018 RF26	?	2.753	0.2 54	0	0	10.0 42	1.0611 90	MB A
2018 RE26	?	2.262	0.2 13	0	0	8.31 3	0.7707 31	MB A
2018 RD26	?	3.989	0.2 66	0	0	10.6 08	1.9235 80	OM B
2018 RB26	?	2.605	0.3 31	0	0	8.57 1	0.7396 91	MB A
2018 RA26	?	2.213	0.2 64	0	0	8.01 0	0.6234 39	MC A
2018 RY25	?	2.763	0.2 02	0	0	9.73 6	1.2110 50	MB A
2018 RX25	?	2.230	0.1 82	0	0	8.45 7	0.8346 48	MB A
2018 RW25	?	3.151	0.3 10	0	0	10.9 08	1.1730 50	MB A
2018 RV25	?	3.423	0.3 61	0	0	9.58 2	1.1711 80	OM B
2018 RU25	?	2.780	0.2 72	0	0	9.25 5	1.0241 50	MB A
2018 RS25	?	3.090	0.2 37	0	0	11.3 74	1.3594 00	MB A
2018 RR25	?	2.622	0.2 00	0	0	9.17 9	1.0849 40	MB A

2018 RQ25	?	2.735	0.1 70	0	0	9.63 2	1.2766 00	MB A
2018 RP25	?	3.170	0.2 97	0	0	10.3 43	1.2721 60	MB A
2018 RM25	?	2.188	0.1 42	0	0	8.48 6	0.8605 55	MB A
2018 RK25	?	2.629	0.2 84	0	0	8.82 6	0.8796 90	MB A
2018 RE25	?	2.726	0.2 33	0	0	9.47 3	1.1199 70	MB A
2018 RC25	?	2.267	0.1 55	0	0	8.92 6	0.9009 17	MB A
2018 RB25	?	2.464	0.1 07	0	0	9.50 5	1.2123 20	MB A
2018 RA25	?	3.134	0.2 26	0	0	10.7 92	1.4204 20	MB A
2018 RX24	?	2.775	0.1 55	0	0	10.0 30	1.3805 20	MB A
2018 RW24	?	2.195	0.2 48	0	0	7.95 2	0.6388 02	MC A
2018 RV24	?	2.746	0.1 73	0	0	9.64 7	1.2826 80	MB A
2018 RU24	?	2.710	0.2 53	0	0	9.40 9	1.0399 50	MB A
2018 RS24	?	2.485	0.1 97	0	0	8.98 9	1.0031 90	MB A
2018 RQ24	?	2.241	0.1 70	0	0	8.65 4	0.8432 39	MB A
2018 RP24	?	2.454	0.1 77	0	0	9.50 6	1.0241 40	MB A
2018 RN24	?	2.600	0.1 90	0	0	10.0 57	1.1391 20	MB A
2018 RM24	?	3.174	0.0 98	0	0	10.9 56	1.8746 50	MB A
2018 RL24	?	2.366	0.2 37	0	0	8.55 6	0.8115 12	MB A

2018 RJ24	?	2.734	0.1 81	0	0	9.91 1	1.2418 50	MB A
2018 RH24	?	2.249	0.2 21	0	0	8.44 1	0.7473 66	MB A
2018 RG24	?	2.300	0.1 50	0	0	8.88 1	0.9663 68	MB A
2018 RF24	?	2.733	0.1 93	0	0	9.72 8	1.2188 10	MB A
2018 RE24	?	3.205	0.2 48	0	0	12.8 88	1.4746 90	OM B
2018 RD24	?	2.429	0.1 75	0	0	9.56 0	1.0333 20	MB A
2018 RB24	?	3.082	0.2 20	0	0	10.6 66	1.4180 60	MB A
2018 RA24	?	2.923	0.0 76	0	0	10.6 93	1.7284 20	MB A
2018 RZ23	?	2.292	0.1 54	0	0	8.83 2	0.9408 64	MB A
2018 RX23	?	2.680	0.1 62	0	0	10.7 66	1.2367 40	MB A
2018 RV23	?	3.113	0.2 14	0	0	10.4 49	1.4578 90	MB A
2018 RU23	?	3.155	0.1 02	0	0	11.0 53	1.8393 60	MB A
2018 RT23	?	2.927	0.2 55	0	0	9.60 9	1.1919 60	MB A
2018 RS23	?	2.856	0.0 78	0	0	10.3 74	1.6472 30	MB A
2018 RR23	?	3.027	0.1 09	0	0	10.6 00	1.7053 70	MB A
2018 RQ23	?	2.509	0.2 18	0	0	8.94 2	0.9722 11	MB A
2018 RP23	?	2.586	0.2 89	0	0	8.68 9	0.8320 94	MB A
2018 RO23	?	2.799	0.1 85	0	0	9.86 2	1.2734 70	MB A

2018 RN23	?	2.586	0.2 17	0	0	9.48 9	1.0250 80	MB A
2018 RM23	?	2.605	0.2 22	0	0	9.08 7	1.0157 00	MB A
2018 RL23	?	2.505	0.1 55	0	0	9.33 4	1.1282 60	MB A
2018 RK23	?	2.899	0.2 71	0	0	10.1 92	1.1114 30	MB A
2018 RJ23	?	2.742	0.1 83	0	0	10.2 74	1.2434 50	MB A
2018 RH23	?	3.093	0.0 81	0	0	11.0 36	1.8323 60	MB A
2018 RG23	?	2.881	0.1 18	0	0	10.2 45	1.5632 40	MB A
2018 RF23	?	3.045	0.2 83	0	0	10.1 22	1.1717 00	MB A
2018 RB23	?	2.367	0.2 55	0	0	8.28 2	0.7550 70	MB A
2018 RA23	?	2.648	0.2 02	0	0	10.0 09	1.1061 50	MB A
2018 RY22	?	2.455	0.2 57	0	0	8.73 2	0.8142 23	MB A
2018 RV22	?	2.308	0.2 11	0	0	8.40 6	0.8211 86	MB A
2018 RU22	?	3.189	0.2 49	0	0	12.9 03	1.4883 90	MB A
2018 RS22	?	2.230	0.1 88	0	0	8.48 3	0.8171 99	MB A
2018 RQ22	?	2.315	0.2 60	0	0	8.18 6	0.7078 80	MB A
2018 RP22	?	2.249	0.1 49	0	0	8.70 4	0.8998 25	MB A
2018 RO22	?	2.254	0.2 24	0	0	8.25 0	0.7383 64	MB A
2018 RN22	?	2.769	0.1 30	0	0	9.82 3	1.4203 90	MB A



2018 RL22	?	3.065	0.0 84	0	0	11.5 78	1.8222 70	MB A
2018 RK22	?	3.131	0.1 76	0	0	10.2 39	1.5734 10	MB A
2018 RJ22	?	2.202	0.2 08	0	0	8.21 2	0.7284 71	MB A
2018 RH22	?	3.099	0.3 21	0	0	9.50 8	1.1115 90	MB A
2018 RF22	?	3.179	0.0 55	0	0	10.9 26	2.0260 30	MB A
2018 RD22	?	1.875	0.1 26	0	0	9.32 5	0.6713 78	MC A
2018 RC22	?	2.940	0.1 06	0	0	10.5 28	1.6580 80	MB A
2018 RB22	?	2.367	0.3 04	0	0	8.04 4	0.6306 95	MC A
2018 RZ21	?	2.326	0.1 87	0	0	8.67 3	0.8863 04	MB A
2018 RY21	?	2.388	0.2 33	0	0	8.47 5	0.8147 40	MB A
2018 RX21	?	2.586	0.2 46	0	0	9.64 4	0.9452 44	MB A
2018 RW21	?	3.020	0.1 15	0	0	11.1 75	1.6757 40	MB A
2018 RV21	?	2.689	0.3 25	0	0	8.66 0	0.8246 64	MB A
2018 RU21	?	2.352	0.2 25	0	0	8.39 9	0.8114 45	MB A
2018 RR21	?	3.859	0.3 07	0	0	10.4 65	1.6661 50	OM B
2018 RQ21	?	2.944	0.2 82	0	0	9.33 9	1.1166 20	MB A
2018 RN21	?	3.140	0.1 94	0	0	10.0 88	1.5229 80	MB A
2018 RM21	?	2.606	0.1 94	0	0	9.41 3	1.0930 30	MB A

2018 RL21	?	2.464	0.1 56	0	0	9.64 8	1.0805 20	MB A
2018 RK21	?	2.207	0.1 59	0	0	8.60 9	0.8575 68	MB A
2018 RJ21	?	3.804	0.1 42	0	0	11.0 14	2.2583 90	OM B
2018 RH21	?	3.148	0.2 28	0	0	10.9 66	1.4515 70	MB A
2018 RG21	?	2.565	0.2 00	0	0	9.68 2	1.0439 60	MB A
2018 RD21	?	2.714	0.1 51	0	0	11.1 23	1.3012 10	MB A
2018 RC21	?	2.425	0.2 04	0	0	8.78 6	0.9161 68	MB A
2018 RB21	?	3.210	0.2 57	0	0	17.3 95	1.4966 50	OM B
2018 RA21	?	3.425	0.0 99	0	0	11.6 46	2.0833 00	OM B
2018 RX20	?	2.499	0.2 37	0	0	8.74 3	0.8989 15	MB A
2018 RW20	?	2.784	0.1 75	0	0	9.96 4	1.2891 50	MB A
2018 RV20	?	3.146	0.0 98	0	0	13.5 68	1.8541 80	MB A
2018 RU20	?	2.699	0.3 01	0	0	9.04 4	0.8847 03	MB A
2018 RT20	?	3.212	0.2 76	0	0	9.77 3	1.3195 00	OM B
2018 RR20	?	2.274	0.2 60	0	0	8.11 4	0.6773 29	MB A
2018 RP20	?	2.400	0.2 18	0	0	8.66 8	0.8782 82	MB A
2018 RN20	?	2.577	0.3 60	0	0	8.47 2	0.6587 38	MC A
2018 RM20	?	2.430	0.3 55	0	0	7.93 8	0.5565 72	MC A

2018 RH20	?	3.172	0.1 56	0	0	10.6 37	1.6849 60	MB A
2018 RG20	?	2.364	0.1 96	0	0	8.60 5	0.9013 00	MB A
2018 RE20	?	2.411	0.2 20	0	0	8.93 6	0.8777 80	MB A
2018 RD20	?	2.334	0.1 96	0	0	8.81 9	0.8740 82	MB A
2018 RB20	?	2.591	0.1 89	0	0	9.76 3	1.0942 50	MB A
2018 RZ19	?	2.227	0.2 47	0	0	8.13 6	0.6692 52	MB A
2018 RX19	?	2.258	0.2 03	0	0	8.57 7	0.7895 48	MB A
2018 RW19	?	3.950	0.2 96	0	0	10.3 78	1.7777 80	OM B
2018 RS19	?	2.290	0.2 59	0	0	8.30 1	0.6913 22	MB A
2018 RP19	?	3.221	0.2 70	0	0	10.1 91	1.3438 00	OM B
2018 RO19	?	2.550	0.2 56	0	0	8.82 7	0.8991 76	MB A
2018 RN19	?	2.400	0.2 11	0	0	8.75 2	0.8964 94	MB A
2018 RL19	?	3.073	0.2 12	0	0	10.2 62	1.4103 70	MB A
2018 RK19	?	2.220	0.2 02	0	0	8.32 9	0.7613 61	MB A
2018 RJ19	?	2.354	0.1 93	0	0	8.59 4	0.8891 00	MB A
2018 RH19	?	2.555	0.2 70	0	0	8.66 7	0.8641 18	MB A
2018 RG19	?	2.356	0.2 00	0	0	8.55 9	0.8867 44	MB A
2018 RF19	?	2.225	0.2 04	0	0	8.28 0	0.7625 49	MB A

2018 RV18	?	2.365	0.2 66	0	0	8.36 2	0.7213 05	MB A
2018 RU18	?	2.581	0.1 91	0	0	9.28 9	1.0701 60	MB A
2018 RT18	?	2.693	0.1 52	0	0	9.66 5	1.2850 60	MB A
2018 RQ18	?	2.605	0.2 56	0	0	9.81 5	0.9403 89	MB A
2018 RP18	?	2.640	0.2 92	0	0	9.38 3	0.8851 61	MB A
2018 RM18	?	3.130	0.2 08	0	0	10.2 98	1.4911 00	MB A
2018 RL18	?	2.378	0.1 09	0	0	9.26 2	1.1043 60	MB A
2018 RK18	?	2.701	0.1 78	0	0	10.0 82	1.2150 40	MB A
2018 RJ18	?	2.243	0.2 17	0	0	8.45 8	0.7581 26	MB A
2018 RH18	?	2.296	0.2 41	0	0	8.38 3	0.7343 26	MB A
2018 RE18	?	3.075	0.3 57	0	0	10.3 36	1.0499 20	MB A
2018 RD18	?	2.776	0.2 38	0	0	9.41 9	1.1207 90	MB A
2018 RC18	?	2.717	0.1 97	0	0	9.54 3	1.1679 20	MB A
2018 RB18	?	2.397	0.2 26	0	0	9.35 1	0.8564 66	MB A
2018 RA18	?	3.088	0.1 00	0	0	10.7 17	1.7634 90	MB A
2018 RY17	?	2.532	0.2 57	0	0	8.70 7	0.8800 34	MB A
2018 RX17	?	3.103	0.0 38	0	0	10.8 94	1.9670 20	MB A
2018 RW17	?	2.671	0.2 33	0	0	9.65 4	1.0526 80	MB A

2018 RV17	?	3.151	0.1 29	0	0	10.3 99	1.7270 90	MB A
2018 RU17	?	2.477	0.2 08	0	0	9.87 8	0.9961 08	MB A
2018 RT17	?	2.436	0.2 01	0	0	8.75 0	0.9396 72	MB A
2018 RS17	?	2.591	0.2 00	0	0	9.72 6	1.0632 40	MB A
2018 RQ17	?	2.585	0.1 30	0	0	9.56 3	1.2341 40	MB A
2018 RP17	?	2.252	0.1 35	0	0	8.64 8	0.9318 33	MB A
2018 RO17	?	2.646	0.2 73	0	0	9.60 0	0.9261 81	MB A
2018 RN17	?	2.180	0.2 10	0	0	8.08 3	0.7114 94	MB A
2018 RM17	?	2.744	0.2 08	0	0	9.79 8	1.2029 10	MB A
2018 RL17	?	2.281	0.2 17	0	0	8.54 9	0.7933 92	MB A
2018 RF17	?	2.268	0.1 46	0	0	8.79 7	0.9288 64	MB A
2018 RE17	?	3.144	0.1 76	0	0	10.4 53	1.6116 80	MB A
2018 RD17	?	2.687	0.2 41	0	0	9.77 1	1.0218 40	MB A
2018 RC17	?	2.786	0.0 68	0	0	11.1 38	1.6506 30	MB A
2018 RB17	?	2.580	0.1 94	0	0	9.61 3	1.0756 00	MB A
2018 RZ16	?	2.234	0.1 69	0	0	8.61 7	0.8455 36	MB A
2018 RY16	?	2.718	0.3 25	0	0	9.04 8	0.8526 85	MB A
2018 RX16	?	3.051	0.2 04	0	0	9.86 0	1.4293 40	MB A

2018 RW16	?	3.084	0.2 05	0	0	10.5 46	1.4459 40	MB A
2018 RV16	?	2.310	0.2 34	0	0	8.30 9	0.7657 56	MB A
2018 RU16	?	2.253	0.3 90	0	0	7.26 9	0.3680 95	MC A
2018 RT16	?	2.845	0.0 64	0	0	10.2 27	1.6772 50	MB A
2018 RS16	?	3.948	0.2 76	0	0	11.0 55	1.8605 90	OM B
2018 RR16	?	2.703	0.1 68	0	0	10.1 46	1.2506 60	MB A
2018 RQ16	?	2.382	0.2 00	0	0	8.66 2	0.8959 21	MB A
2018 RP16	?	2.359	0.1 20	0	0	9.12 0	1.0758 50	MB A
2018 RO16	?	3.249	0.0 48	0	0	11.4 34	2.1039 40	OM B
2018 RN16	?	2.355	0.3 18	0	0	10.2 96	0.6625 59	MC A
2018 RM16	?	2.532	0.0 58	0	0	10.1 35	1.4013 40	MB A
2018 RL16	?	3.079	0.1 82	0	0	11.0 57	1.5283 90	MB A
2018 RK16	?	2.637	0.1 62	0	0	9.99 9	1.2027 50	MB A
2018 RJ16	?	2.355	0.2 36	0	0	8.51 1	0.8009 21	MB A
2018 RH16	?	2.362	0.2 00	0	0	8.66 5	0.8760 29	MB A
2018 RG16	?	2.667	0.1 37	0	0	10.5 02	1.2911 10	MB A
2018 RF16	?	3.103	0.2 13	0	0	11.5 36	1.5247 70	MB A
2018 RE16	?	3.030	0.0 91	0	0	12.1 26	1.8009 70	MB A

2018 RB16	?	3.186	0.1 42	0	0	10.4 03	1.7219 10	MB A
2018 RA16	?	2.568	0.1 64	0	0	9.55 2	1.1566 50	MB A
2018 RZ15	?	2.701	0.0 69	0	0	10.0 40	1.5075 50	MB A
2018 RY15	?	3.059	0.2 04	0	0	11.4 78	1.4853 60	MB A
2018 RX15	?	2.213	0.0 69	0	0	9.14 4	1.0672 90	MB A
2018 RW15	?	2.689	0.0 94	0	0	9.81 2	1.4206 40	MB A
2018 RV15	?	2.464	0.1 30	0	0	9.15 6	1.1480 70	MB A
2018 RT15	?	2.554	0.2 46	0	0	9.91 5	0.9447 40	MB A
2018 RS15	?	2.458	0.0 71	0	0	9.53 9	1.2806 20	MB A
2018 RR15	?	2.678	0.2 44	0	0	9.08 3	1.0098 60	MB A
2018 RQ15	?	2.636	0.2 69	0	0	9.46 8	0.9618 46	MB A
2018 RP15	?	2.581	0.2 86	0	0	9.09 9	0.8538 57	MB A
2018 RE15	?	2.597	0.2 67	0	0	9.56 6		MB A
2018 RC15	?	3.187	0.2 55	0	0	10.7 22	1.3671 30	MB A
2018 RB15	?	2.365	0.2 18	0	0	8.65 8	0.8353 17	MB A
2018 RA15	?	2.407	0.2 41	0	0	8.52 5	0.8230 43	MB A
2018 RZ14	?	3.179	0.0 91	0	0	11.7 16	1.8923 90	MB A
2018 RY14	?	3.252	0.3 23	0	0	9.58 5	1.1989 10	OM B

2018 RX14	?	2.366	0.2 28	0	0	8.44 0	0.8261 48	MB A
2018 RV14	?	2.595	0.1 68	0	0	9.33 5	1.1456 40	MB A
2018 RT14	?	2.582	0.3 14	0	0	8.49 8	0.7623 99	MB A
2018 RS14	?	3.144	0.1 87	0	0	11.3 84	1.5673 90	MB A
2018 RR14	?	2.808	0.3 00	0	0	9.35 5	0.9647 48	MB A
2018 RQ14	?	2.344	0.2 43	0	0	8.34 9	0.7570 19	MB A
2018 RP14	?	2.291	0.2 38	0	0	8.36 2	0.7391 88	MB A
2018 RO14	?	3.035	0.2 11	0	0	10.3 26	1.4084 10	MB A
2018 RN14	?	2.450	0.2 65	0	0	9.02 9	0.8116 91	MB A
2018 RM14	?	2.420	0.2 43	0	0	8.54 0	0.8200 05	MB A
2018 RL14	?	2.291	0.2 27	0	0	8.34 6	0.7744 70	MB A
2018 RK14	?	2.911	0.1 29	0	0	10.0 16	1.5338 80	MB A
2018 RJ14	?	2.290	0.2 34	0	0	8.22 8	0.7433 54	MB A
2018 RH14	?	3.076	0.1 40	0	0	10.7 12	1.6480 60	MB A
2018 RG14	?	2.607	0.1 22	0	0	10.0 33	1.2909 80	MB A
2018 RF14	?	2.348	0.2 08	0	0	8.51 0	0.8610 28	MB A
2018 RE14	?	2.807	0.1 68	0	0	9.75 5	1.3430 00	MB A
2018 RD14	?	2.192	0.2 28	0	0	7.98 9	0.6908 17	MB A



2018 RC14	?	2.212	0.2 67	0	0	8.12 9	0.6226 46	MC A
2018 RB14	?	2.329	0.2 53	0	0	8.19 2	0.7379 60	MB A
2018 RA14	?	2.471	0.1 69	0	0	10.2 09	1.0563 60	MB A
2018 RZ13	?	2.810	0.1 70	0	0	9.95 3	1.3451 80	MB A
2018 RX13	?	3.130	0.2 69	0	0	10.2 39	1.2973 50	MB A
2018 RW13	?	2.400	0.1 13	0	0	9.30 6	1.1311 90	MB A
2018 RV13	?	2.218	0.2 28	0	0	8.26 0	0.7095 58	MB A
2018 RU13	?	2.190	0.2 38	0	0	8.01 2	0.6807 26	MB A
2018 RT13	?	2.261	0.1 78	0	0	8.59 9	0.8481 63	MB A
2018 RS13	?	3.090	0.1 98	0	0	9.92 6	1.4672 30	MB A
2018 RR13	?	2.595	0.2 69	0	0	9.95 6	0.8896 16	MB A
2018 RQ13	?	2.661	0.3 27	0	0	8.51 2	0.7797 33	MB A
2018 RN13	?	2.317	0.1 05	0	0	9.17 2	1.0700 00	MB A
2018 RM13	?	3.099	0.0 68	0	0	10.7 39	1.8760 30	MB A
2018 RL13	?	2.569	0.2 36	0	0	8.93 4	0.9560 30	MB A
2018 RK13	?	3.295	0.2 31	0	0	11.0 92	1.5304 50	OM B
2018 RJ13	?	2.152	0.2 13	0	0	7.95 4	0.6903 01	MB A
2018 RH13	?	3.078	0.1 42	0	0	11.4 73	1.6495 30	MB A

2018 RG13	?	2.688	0.3 12	0	0	8.98 0	0.8552 34	MB A
2018 RF13	?	2.376	0.2 18	0	0	8.53 5	0.8478 14	MB A
2018 RE13	?	2.922	0.2 19	0	0	9.63 8	1.2709 80	MB A
2018 RC13	?	2.228	0.1 85	0	0	8.45 3	0.8082 38	MB A
2018 RB13	?	2.282	0.2 44	0	0	8.19 7	0.7363 83	MB A
2018 RA13	?	2.293	0.2 64	0	0	8.22 3	0.6986 06	MB A
2018 RZ12	?	2.645	0.2 98	0	0	9.33 2	0.8747 85	MB A
2018 RY12	?	2.721	0.2 87	0	0	9.16 8	0.9353 19	MB A
2018 RU12	?	2.461	0.1 42	0	0	9.25 6	1.1115 70	MB A
2018 RT12	?	3.147	0.1 99	0	0	10.4 27	1.5127 10	MB A
2018 RS12	?	2.175	0.2 26	0	0	7.98 3	0.6807 92	MB A
2018 RR12	?	2.224	0.2 17	0	0	8.25 2	0.7477 55	MB A
2018 RQ12	?	2.686	0.3 54	0	0	9.54 0	0.7650 23	MB A
2018 RP12	?	2.608	0.2 62	0	0	9.83 9	0.9146 54	MB A
2018 RO12	?	3.188	0.1 98	0	0	11.2 89	1.5691 50	MB A
2018 RN12	?	2.375	0.1 21	0	0	9.33 4	1.0708 60	MB A
2018 RM12	?	2.206	0.2 58	0	0	8.08 4	0.6225 00	MC A
2018 RG12	?	2.389	0.3 18	0	0	8.73 5	0.6157 24	MC A

2018 RF12	?	2.600	0.2 90	0	0	9.16 9	0.8828 95	MB A
2018 RE12	?	3.164	0.2 32	0	0	10.6 82	1.4264 70	MB A
2018 RD12	?	2.681	0.2 52	0	0	9.64 1	1.0144 00	MB A
2018 RB12	?	3.092	0.2 20	0	0	10.6 71	1.4516 20	MB A
2018 RY11	?	2.653	0.2 53	0	0	9.75 4	0.9741 38	MB A
2018 RX11	?	3.233	0.2 16	0	0	10.8 38	1.5792 30	OM B
2018 RR11	?	2.350	0.1 93	0	0	9.13 7	0.9204 80	MB A
2018 RQ11	?	3.010	0.2 50	0	0	10.2 91	1.2791 10	MB A
2018 RP11	?	2.660	0.1 53	0	0	10.3 11	1.2663 80	MB A
2018 RN11	?	3.067	0.3 02	0	0	10.2 05	1.1268 00	MB A
2018 RM11	?	3.139	0.1 83	0	0	11.1 58	1.5488 50	MB A
2018 RH11	?	3.204	0.0 39	0	0	11.7 40	2.1023 80	OM B
2018 RG11	?	3.094	0.2 52	0	0	10.6 30	1.3619 90	MB A
2018 RF11	?	2.541	0.2 01	0	0	9.62 1	1.0568 00	MB A
2018 RD11	?	3.193	0.0 56	0	0	11.7 83	2.0513 10	MB A
2018 RC11	?	2.572	0.2 59	0	0	9.87 1	0.9193 47	MB A
2018 RA11	?	2.716	0.2 12	0	0	9.98 6	1.1498 30	MB A
2018 RZ10	?	2.576	0.1 63	0	0	9.80 5	1.1689 50	MB A

2018 RX10	?	3.162	0.2 55	0	0	10.7 68	1.3908 40	MB A
2018 RW10	?	2.554	0.1 47	0	0	10.2 44	1.1772 90	MB A
2018 RV10	?	2.746	0.2 03	0	0	10.1 98	1.2283 80	MB A
2018 RS10	?	3.157	0.2 29	0	0	10.7 36	1.4181 50	MB A
2018 RR10	?	3.209	0.2 58	0	0	10.5 15	1.4138 00	OM B
2018 RQ10	?	2.731	0.2 13	0	0	9.90 9	1.1765 10	MB A
2018 RO10	?	2.305	0.2 08	0	0	8.79 0	0.8504 81	MB A
2018 RM10	?	3.447	0.1 45	0	0	11.4 17	1.9747 20	OM B
2018 RL10	?	2.383	0.2 95	0	0	8.63 5	0.6812 57	MB A
2018 RJ10	?	2.642	0.2 32	0	0	9.75 3	1.0220 90	MB A
2018 RH10	?	2.574	0.2 55	0	0	9.46 9	0.9288 31	MB A
2018 RG10	?	2.645	0.1 81	0	0	10.0 45	1.1612 20	MB A
2018 RC10	?	1.881	0.0 61	0	0	10.1 25	0.8086 73	IMB
2018 RA10	?	2.566	0.2 29	0	0	10.4 05	0.9663 74	MB A
2018 RZ9	?	3.071	0.2 10	0	0	10.1 17	1.4519 20	MB A
2018 RY9	?	2.453	0.1 74	0	0	9.36 6	1.0390 70	MB A
2018 RX9	?	2.597	0.2 14	0	0	9.97 8	1.0303 90	MB A
2018 RW9	?	1.879	0.0 59	0	0	10.4 83	0.7968 43	IMB

2018 RV9	?	2.226	0.1 89	0	0	8.48 1	0.7905 18	MB A
2018 RU9	?	2.310	0.1 26	0	0	9.11 1	1.0216 30	MB A
2018 RT9	?	2.769	0.2 37	0	0	9.48 5	1.1146 00	MB A
2018 RS9	?	2.272	0.2 21	0	0	8.26 5	0.7576 46	MB A
2018 RO9	?	2.661	0.2 73	0	0	9.54 2	0.9448 24	MB A
2018 RN9	?	2.618	0.2 30	0	0	8.97 9	1.0119 00	MB A
2018 RM9	?	2.265	0.1 92	0	0	8.60 0	0.8283 65	MB A
2018 RL9	?	3.248	0.0 71	0	0	11.7 90	2.0278 80	OM B
2018 RK9	?	2.307	0.2 13	0	0	8.38 7	0.8105 34	MB A
2018 RJ9	?	2.569	0.2 97	0	0	9.37 3	0.8615 04	MB A
2018 RH9	?	3.160	0.0 94	0	0	11.0 10	1.8688 10	MB A
2018 RG9	?	2.568	0.3 40	0	0	8.93 6	0.7101 84	MB A
2018 RF9	?	2.237	0.1 93	0	0	8.42 5	0.8037 30	MB A
2018 RE9	?	2.736	0.0 58	0	0	10.2 53	1.5838 20	MB A
2018 RC9	?	3.158	0.1 47	0	0	10.9 68	1.7447 60	MB A
2018 RB9	?	2.799	0.1 15	0	0	10.0 02	1.4772 90	MB A
2018 RA9	?	3.044	0.0 64	0	0	11.1 09	1.8680 40	MB A
2018 RZ8	?	3.078	0.0 66	0	0	11.1 33	1.8620 80	MB A

2018 RY8	?	3.108	0.1 26	0	0	10.4 61	1.7332 70	MB A
2018 RX8	?	2.320	0.1 97	0	0	8.65 9	0.8595 13	MB A
2018 RW8	?	2.726	0.1 44	0	0	9.74 7	1.3449 80	MB A
2018 RV8	?	2.147	0.1 82	0	0	8.13 7	0.7527 24	MB A
2018 RU8	?	2.259	0.3 98	0	0	14.3 99	0.7019 42	MC A
2018 RT8	?	1.854	0.1 86	0	0	15.4 93	0.5047 16	MC A
2018 RS8	?	4.288	0.5 67	0	0	12.1 79	1.0959 70	OM B
2018 RR8	?	2.617	0.7 76	0	0	18.3 72	0.2508 33	APO
2018 RQ8	?	2.417	0.2 65	0	0	12.5 43	0.8955 37	MB A
2018 RP8	?	0.785	0.5 15	0	0	11.9 43	0.1324 92	ATE
2018 RO8	?	1.453	0.3 62	0	0	6.57 4	0.0274 80	APO
2018 RN8	?	2.550	0.3 49	0	0	12.4 32	0.7864 75	MC A
2018 RM8	?	2.941	0.5 19	0	0	11.2 37	0.6823 23	MC A
2018 RL8	?	2.767	0.3 88	0	0	10.2 94	0.8454 13	MB A
2018 RK8	?	2.577	0.3 31	0	0	12.6 70	0.8264 18	MB A
2018 RJ8	?	2.218	0.3 30	0	0	7.67 1	0.4748 71	MC A
2018 RH8	?	1.902	0.0 93	0	0	11.0 06	0.8049 05	IMB
2018 RG8	?	1.681	0.4 07	0	0	5.45 4	0.0035 75	APO

2018 RF8	?	1.421	0.5 15	0	0	7.69 5	0.0008 89	APO
2018 RE8	?	1.516	0.4 09	0	0	5.64 1	0.0014 18	APO
2018 RD8	?	2.413	0.5 84	0	0	6.42 2	0.0244 42	APO
2018 RC8	?	1.835	0.4 03	0	0	7.21 5	0.2411 12	AM O
2018 RB8	?	1.640	0.3 25	0	0	6.97 9	0.2513 94	AM O
2018 RA8	?	1.791	0.4 75	0	0	6.03 5	0.0158 04	APO
2018 RZ7	?	1.460	0.2 45	0	0	5.84 8	0.0972 66	AM O
2018 RY7	?	1.016	0.1 47	0	0	7.03 1	0.0937 60	APO
2018 RX7	?	2.322	0.5 25	0	0	6.62 1	0.1145 86	AM O
2018 RW7	?	1.614	0.4 44	0	0	6.14 8	0.0637 07	APO
2018 RV7	?	1.635	0.4 97	0	0	6.14 1	0.0072 53	APO
2018 RU7	?	2.750	0.5 73	0	0	10.0 42	0.1883 06	AM O
2018 RT7	?	1.397	0.1 12	0	0	8.45 1	0.2848 40	AM O
2018 RS7	?	2.331	0.5 03	0	0	6.72 7	0.1581 13	AM O
2018 RR7	?	1.707	0.3 67	0	0	5.77 3	0.1299 31	AM O
2018 RQ7	?	2.600	0.3 62	0	0	11.8 35	0.8412 29	MC A
2018 RP7	?	2.616	0.3 13	0	0	14.1 41	0.7895 35	MB A
2018 RO7	?	2.153	0.5 47	0	0	6.51 5	0.0717 84	APO

2018 RN7	?	1.927	0.6 57	0	0	7.66 9	0.0010 30	APO
2018 RM7	?	1.833	0.6 27	0	0	7.53 4	0.0070 96	APO
2018 RL7	?	1.603	0.5 07	0	0	6.48 8	0.0114 98	APO
2018 RK7	?	2.805	0.5 41	0	0	7.56 8	0.2950 27	AM O
2018 RJ7	?	2.671	0.6 45	0	0	6.83 7	0.0417 54	APO (PH A)
2018 RH7	?	0.965	0.2 76	0	0	12.5 80	0.1500 20	ATE
2018 RG7	?	1.461	0.2 41	0	0	5.17 5	0.1035 77	AM O
2018 RF7	?	2.539	0.4 90	0	0	7.22 9	0.2868 76	AM O
2018 RE7	?	1.343	0.3 85	0	0	6.72 6	0.0115 50	APO
2018 RD7	?	1.953	0.4 78	0	0	5.66 1	0.0092 94	AM O
2018 RC7	?	1.363	0.2 07	0	0	6.64 5	0.0732 70	AM O
2018 RB7	?	2.443	0.6 74	0	0	7.32 6	0.0192 38	APO (PH A)
2018 RA7	?	2.096	0.4 56	0	0	15.2 79	0.5164 30	AM O
2018 RZ6	?	1.607	0.4 41	0	0	6.91 7	0.0262 99	APO
2018 RY6	?	2.074	0.6 28	0	0	7.12 8	0.0281 13	APO
2018 RX6	?	2.451	0.5 80	0	0	6.43 3	0.0363 85	AM O
2018 RW6	?	1.884	0.3 95	0	0	10.9 64	0.3753 92	AM O



2018 RV6	?	2.208	0.3 16	0	0	10.3 86	0.5224 03	MC A
2018 RU6	?	2.523	0.4 42	0	0	8.44 3	0.4324 03	MC A
2018 RT6	?	2.654	0.3 83	0	0	8.42 1	0.6661 68	MC A
2018 RS6	?	2.738	0.5 04	0	0	7.95 3	0.3625 91	MC A
2018 RR6	?	2.270	0.3 50	0	0	11.2 29	0.4809 99	MC A
2018 RQ6	?	2.542	0.2 98	0	0	12.2 51	0.9752 53	MB A
2018 RP6	?	2.603	0.3 53	0	0	8.48 6	0.6893 02	MB A
2018 RO6	?	2.320	0.3 08	0	0	9.90 3	0.7347 81	MC A
2018 RN6	?	2.800	0.3 80	0	0	8.84 7	0.7490 03	MB A
2018 RM6	?	3.095	0.4 59	0	0	10.6 01	0.8336 72	MB A
2018 RL6	?	1.087	0.0 71	0	0	11.4 62	0.0467 01	APO
2018 RK6	?	1.382	0.3 14	0	0	4.81 6	0.0025 11	APO
2018 RJ6	?	1.557	0.3 46	0	0	6.92 9	0.0328 77	AM O
2018 RH6	?	0.988	0.2 29	0	0	5.81 3	0.0128 86	ATE
2018 RG6	?	1.767	0.4 24	0	0	7.32 0	0.0510 37	AM O
2018 RF6	?	1.018	0.0 84	0	0	10.7 26	0.0062 82	APO
2018 RE6	?	1.421	0.3 56	0	0	7.91 7	0.0576 38	APO
2018 RD6	?	1.598	0.4 10	0	0	5.42 3	0.0093 37	APO

2018 RC6	?	1.287	0.1 90	0	0	8.67 2	0.0600 98	AM O
2018 RB6	?	1.780	0.5 52	0	0	6.57 2	0.0039 01	APO
2018 RA6	?	2.543	0.6 56	0	0	6.93 8	0.0119 80	APO
2018 RZ5	?	2.880	0.7 36	0	0	8.54 9	0.0001 18	APO
2018 RY5	?	2.351	0.7 55	0	0	8.90 5	0.0003 99	APO
2018 RX5	?	1.589	0.4 90	0	0	11.4 51	0.1194 05	APO
2018 RW5	?	1.686	0.5 45	0	0	6.60 8	0.0234 60	APO
2018 RV5	?	2.270	0.4 44	0	0	10.9 75	0.3069 57	AM O
2018 RU5	?	2.200	0.4 23	0	0	6.85 4	0.2690 15	AM O
2018 RT5	?	1.963	0.5 11	0	0	5.80 9	0.0040 68	APO
2018 RS5	?	2.064	0.6 33	0	0	7.22 3	0.0307 18	APO
2018 RR5	?	1.321	0.2 44	0	0	4.45 4	0.0171 35	APO
2018 RQ5	?	2.163	0.5 40	0	0	6.54 5	0.0341 24	APO
2018 RP5	?	2.342	0.6 23	0	0	6.77 3	0.0066 77	APO
2018 RO5	?	0.992	0.2 31	0	0	5.83 6	0.0005 74	ATE
2018 RN5	?	1.785	0.2 36	0	0	10.3 07	0.4154 26	MC A
2018 RM5	?	2.575	0.4 42	0	0	8.08 9	0.4413 62	MC A
2018 RL5	?	1.830	0.0 74	0	0	10.5 06	0.6894 06	IMB

2018 RK5	?	2.400	0.3 43	0	0	8.92 0	0.5765 27	MC A
2018 RJ5	?	2.578	0.3 75	0	0	8.83 8	0.6144 73	MC A
2018 RH5	?	2.019	0.4 85	0	0	6.08 2	0.0341 70	AM O
2018 RG5	?	1.562	0.3 94	0	0	5.44 1	0.0053 07	APO
2018 RF5	?	2.399	0.5 83	0	0	6.27 0	0.00111 1	APO
2018 RE5	?	2.495	0.6 63	0	0	7.65 2	0.0017 31	APO
2018 RD5	?	1.419	0.2 88	0	0	5.15 4	0.0110 43	APO
2018 RC5	?	2.110	0.5 09	0	0	6.13 9	0.0788 24	AM O
2018 RB5	?	1.666	0.3 46	0	0	5.56 7	0.0979 86	AM O
2018 RA5	?	1.325	0.7 13	0	0	15.3 77	0.5297 70	APO
2018 RZ4	?	2.271	0.5 55	0	0	6.91 5		APO
2018 RY4	?	2.751	0.4 59	0	0	8.65 7	0.4987 82	MC A
2018 RX4	?	1.927	0.0 52	0	0	10.1 36	0.8110 26	IMB
2018 RW4	?	3.074	0.4 11	0	0	9.93 4	0.9073 67	MB A
2018 RV4	?	2.584	0.3 56	0	0	8.32 8	0.6763 66	MC A
2018 RU4	?	2.591	0.3 65	0	0	10.6 67	0.8405 32	MC A
2018 RT4	?	2.592	0.4 02	0	0	8.04 3	0.5585 72	MC A
2018 RS4	?	2.628	0.3 60	0	0	8.45 8	0.6985 11	MB A

2018 RR4	?	2.632	0.6 21	0	0	6.62 2	0.0023 94	APO
2018 RQ4	?	1.607	0.4 02	0	0	5.15 5	0.0024 97	APO
2018 RO4	?	1.141	0.1 55	0	0	9.95 6	0.0381 82	APO
2018 RN4	?	1.604	0.3 23	0	0	12.6 75	0.2085 52	AM O
2018 RM4	?	2.206	0.5 85	0	0	6.37 2	0.0059 75	APO
2018 RL4	?	0.872	0.4 01	0	0	8.74 2	0.0553 59	ATE
2018 RK4	?	2.315	0.4 12	0	0	9.21 2	0.4395 05	MC A
2018 RJ4	?	2.410	0.3 35	0	0	10.4 74	0.6657 05	MC A
2018 RH4	?	2.778	0.3 70	0	0	9.23 5	0.7950 99	MB A
2018 RG4	?	2.642	0.4 12	0	0	8.30 6	0.5581 74	MC A
2018 RF4	?	2.702	0.3 35	0	0	9.35 7	0.8203 28	MB A
2018 RE4	?	1.560	0.3 47	0	0	5.34 1	0.0158 79	AM O
2018 RD4	?	1.544	0.3 46	0	0	5.11 6	0.0052 99	APO
2018 RC4	?	2.540	0.5 97	0	0	6.58 4	0.0222 83	AM O
2018 RB4	?	1.064	0.1 12	0	0	4.74 1	0.0264 82	APO
2018 RA4	?	2.146	0.5 24	0	0	6.33 5	0.0320 32	AM O
2018 RZ3	?	1.408	0.2 55	0	0	10.0 59	0.0636 18	AM O
2018 RY3	?	2.098	0.6 81	0	0	7.60 3	0.0003 62	APO

2018 RX3	?	1.509	0.4 94	0	0	6.62 7	0.0184 60	APO
2018 RW3	?	1.848	0.5 87	0	0	7.70 9	0.0234 24	APO
2018 RV3	?	1.595	0.3 58	0	0	7.04 8	0.0970 75	AM O
2018 RU3	?	0.956	0.2 52	0	0	6.66 9	0.0680 70	ATE
2018 RT3	?	1.417	0.4 50	0	0	9.92 3	0.0078 82	APO
2018 RS3	?	1.498	0.3 28	0	0	12.4 79	0.0889 30	APO
2018 RR3	?	2.158	0.4 21	0	0	7.09 9	0.2325 51	AM O
2018 RQ3	?	2.328	0.3 49	0	0	8.37 1	0.5529 29	MC A
2018 RP3	?	2.141	0.3 18	0	0	7.54 3	0.4442 11	MC A
2018 RO3	?	1.756	0.1 59	0	0	9.67 7	0.6066 81	MC A
2018 RN3	?	2.489	0.4 03	0	0	7.79 0	0.4904 08	MC A
2018 RM3	?	2.630	0.4 84	0	0	8.04 0	0.3664 16	MC A
2018 RL3	?	2.817	0.4 56	0	0	8.50 9	0.5386 06	MC A
2018 RK3	?	2.135	0.4 96	0	0	6.39 2	0.0643 43	AM O
2018 RJ3	?	1.329	0.3 06	0	0	5.17 1	0.0006 94	APO
2018 RH3	?	0.959	0.2 73	0	0	6.40 4	0.0011 51	ATE
2018 RG3	?	2.361	0.5 64	0	0	6.35 8	0.0227 18	AM O
2018 RF3	?	1.505	0.3 40	0	0	6.23 6	0.0047 89	APO

2018 RE3	?	1.326	0.3 91	0	0	5.80 5	0.0043 94	APO
2018 RD3	?	3.045	0.4 70	0	0	8.34 0	0.6245 58	MC A
2018 RC3	?	1.924	0.5 20	0	0	6.73 5	0.0120 97	APO
2018 RB3	?	2.187	0.5 18	0	0	6.88 9	0.0716 57	AM O
2018 RA3	?	1.139	0.1 69	0	0	13.9 91	0.0673 78	APO
2018 RZ2	?	1.287	0.1 64	0	0	9.91 8	0.1934 15	AM O
2018 RY2	?	2.897	0.5 37	0	0	8.14 6	0.3478 52	MC A
2018 RX2	?	2.308	0.3 70	0	0	7.67 5	0.4557 75	MC A
2018 RW2	?	2.238	0.3 74	0	0	7.31 0	0.4060 85	MC A
2018 RV2	?	2.904	0.4 56	0	0	8.18 4	0.5784 26	MC A
2018 RU2	?	1.786	0.0 58	0	0	9.97 0	0.6926 24	IMB
2018 RT2	?	2.574	0.2 75	0	0	9.33 0	0.9095 61	MB A
2018 RS2	?	2.616	0.4 46	0	0	8.38 9	0.4917 17	MC A
2018 RR2	?	21.41 1	0.6 41	0	0	15.2 42	6.6908 50	CEN
2018 RQ2	?	1.524	0.4 07	0	0	7.83 5	0.0104 48	APO
2018 RP2	?	1.539	0.2 74	0	0	5.37 7	0.1161 46	AM O
2018 RO2	?	2.690	0.5 24	0	0	7.96 4	0.2731 48	AM O
2018 RN2	?	0.882	0.3 49	0	0	9.42 9	0.0354 65	ATE

2018 RM2	?	2.207	0.4 50	0	0	6.82 2	0.2241 78	AM O
2018 RL2	?	2.339	0.4 70	0	0	7.51 9	0.2388 52	AM O
2018 RK2	?	2.511	0.4 17	0	0	8.66 8	0.4693 93	MC A
2018 RJ2	?	2.582	0.3 80	0	0	12.2 46	0.6782 26	MC A
2018 RH2	?	2.671	0.3 88	0	0	8.61 9	0.6634 49	MC A
2018 RG2	?	2.652	0.3 90	0	0	8.33 9	0.6212 57	MC A
2018 RF2	?	1.024	0.3 40	0	0	7.35 5	0.0098 06	APO
2018 RE2	?	1.274	0.2 32	0	0	5.90 3	0.0017 84	APO
2018 RD2	?	0.808	0.3 11	0	0	8.91 9	0.0115 93	ATE
2018 RC2	?	1.240	0.3 39	0	0	7.09 3	0.0020 36	APO
2018 RB2	?	1.378	0.3 26	0	0	5.56 3	0.0016 51	APO
2018 RA2	?	1.502	0.4 00	0	0	5.67 0	0.0205 50	APO
2018 RZ1	?	1.868	0.4 52	0	0	6.14 8	0.0868 46	AM O
2018 RY1	?	0.822	0.3 39	0	0	8.00 6	0.0007 66	ATE
2018 RX1	?	1.473	0.2 91	0	0	6.08 9	0.0684 52	AM O
2018 RW1	?	0.916	0.2 78	0	0	7.13 1	0.1110 02	ATE
2018 RV1	?	2.196	0.5 02	0	0	6.45 9	0.0917 93	AM O
2018 RU1	?	2.052	0.4 05	0	0	6.86 1	0.2477 21	AM O

2018 RT1	?	2.113	0.5 04	0	0	6.15 8	0.0891 60	AM O
2018 RS1	?	2.289	0.5 44	0	0	6.39 9	0.0452 46	AM O
2018 RR1	?	1.075	0.1 41	0	0	4.40 0	0.0023 27	APO
2018 RQ1	?	0.879	0.1 71	0	0	5.98 6	0.0082 80	ATE
2018 RP1	?	1.447	0.3 38	0	0	5.53 8	0.0396 57	APO
2018 RO1	?	1.369	0.3 51	0	0	6.21 2	0.0106 31	APO
2018 RN1	?	1.827	0.5 02	0	0	6.57 4	0.0084 61	APO
2018 RM1	?	2.948	0.5 25	0	0	8.09 0	0.3997 21	MC A
2018 RL1	?	2.617	0.3 98	0	0	8.20 9	0.5774 99	MC A
2018 RK1	?	2.329	0.3 12	0	0	11.3 03	0.5938 84	MC A
2018 RJ1	?	2.735	0.4 23	0	0	9.18 7	0.5659 04	MC A
2018 RH1	?	2.569	0.3 61	0	0	9.24 7	0.6430 66	MC A
2018 RG1	?	2.354	0.2 80	0	0	8.11 0	0.6954 24	MB A
2018 RF1	?	2.699	0.3 81	0	0	8.66 2	0.6720 59	MB A
2018 RE1	?	2.693	0.8 10	0	0	9.80 3	0.0276 29	APO
2018 RD1	?	1.504	0.3 09	0	0	6.88 8	0.0340 29	AM O
2018 RC1	?	1.262	0.1 69	0	0	4.42 7	0.0428 18	AM O
2018 RB1	?	1.119	0.2 82	0	0	5.72 1	0.0019 61	APO



2018 RA1	?	1.142	0.3 24	0	0	6.38 3	0.0045 46	APO
2018 RZ	?	2.523	0.7 57	0	0	8.52 1	0.0137 33	APO
2018 RY	?	1.704	0.4 76	0	0	7.52 0	0.0185 20	APO
2018 RX	?	2.265	0.5 64	0	0	8.70 1	0.2676 11	APO
2018 RW	?	0.894	0.2 42	0	0	6.28 8	0.0004 85	ATE
2018 RV	?	2.676	0.4 35	0	0	8.15 5	0.5161 25	MC A
2018 RU	?	2.507	0.3 58	0	0	11.8 34	0.6455 12	MC A
2018 RT	?	2.600	0.3 17	0	0	8.52 1	0.7861 79	MB A
2018 RS	?	1.962	0.6 23	0	0	7.11 0	0.0007 05	APO
2018 RR	?	1.101	0.1 78	0	0	6.62 3	0.0040 58	APO
2018 RQ	?	2.397	0.6 29	0	0	6.76 7	0.0159 25	APO
2018 RP	?	2.325	0.5 87	0	0	8.12 6	0.0047 29	APO
2018 RO	?	1.817	0.4 43	0	0	5.49 0	0.0040 10	APO
2018 RN	?	2.612	0.6 15	0	0	6.95 0	0.0031 49	APO
2018 RM	?	2.817	0.7 68	0	0	13.4 09	0.0751 11	APO
2018 RL	?	1.859	0.4 11	0	0	7.79 1	0.1287 56	AM O
2018 RK	?	2.587	0.3 50	0	0	9.24 0	0.7460 70	MB A
2018 RJ	?	1.993	0.1 71	0	0	10.8 56	0.7349 16	MC A

2018 RH	?	3.164	0.3 79	0	0	11.1 31	1.1133 30	MB A
2018 RG	?	2.206	0.3 70	0	0	7.29 9	0.3761 22	MC A
2018 RF	?	2.244	0.5 98	0	0	6.93 8	0.0058 34	APO
2018 RE	?	2.228	0.7 50	0	0	8.42 7	0.0008 78	APO
2018 RC	?	0.882	0.2 19	0	0	6.23 9	0.0003 68	ATE
2018 RB	?	1.949	0.7 32	0	0	8.58 6	0.0240 91	APO (PH A)
2018 RA	?	1.883	0.4 64	0	0	5.69 1	0.0073 67	APO
2018 QZ6	?	2.645	0.2 96	0	0	9.50 4	0.8682 48	MB A
2018 QW6	?	3.145	0.1 83	0	0	12.5 18	1.5689 00	MB A
2018 QV6	?	2.980	0.2 68	0	0	9.67 3	1.1859 00	MB A
2018 QU6	?	2.734	0.3 27	0	0	9.17 4	0.8336 24	MB A
2018 QT6	?	3.058	0.1 63	0	0	11.7 01	1.6081 30	MB A
2018 QQ6	?	2.589	0.2 53	0	0	9.53 5	0.9204 02	MB A
2018 QP6	?	2.681	0.1 80	0	0	10.2 21	1.2294 00	MB A
2018 QN6	?	2.329	0.1 93	0	0	8.52 5	0.8838 33	MB A
2018 QM6	?	3.104	0.1 84	0	0	10.0 83	1.5448 90	MB A
2018 QL6	?	3.050	0.0 61	0	0	10.7 48	1.8803 00	MB A
2018 QK6	?	2.546	0.1 78	0	0	10.0 63	1.0834 50	MB A

2018 QJ6	?	2.294	0.2 21	0	0	8.74 9	0.7748 30	MB A
2018 QH6	?	2.369	0.2 67	0	0	10.2 85	0.8551 21	MB A
2018 QG6	?	2.284	0.1 60	0	0	8.75 2	0.9154 56	MB A
2018 QF6	?	2.291	0.2 46	0	0	8.31 3	0.7214 47	MB A
2018 QD6	?	2.195	0.2 02	0	0	8.24 4	0.7463 57	MB A
2018 QC6	?	3.067	0.1 40	0	0	10.6 60	1.6481 00	MB A
2018 QA6	?	3.086	0.1 14	0	0	13.2 14	1.7939 10	MB A
2018 QZ5	?	2.256	0.1 03	0	0	8.96 7	1.0404 60	MB A
2018 QY5	?	2.274	0.1 67	0	0	8.68 9	0.8839 48	MB A
2018 QX5	?	2.700	0.2 48	0	0	9.49 4	1.0192 90	MB A
2018 QW5	?	2.183	0.1 95	0	0	8.49 3	0.7562 13	MB A
2018 QV5	?	3.204	0.2 78	0	0	10.9 06	1.3795 30	OM B
2018 QU5	?	3.227	0.2 78	0	0	11.7 07	1.4067 70	OM B
2018 QT5	?	2.761	0.1 90	0	0	11.8 78	1.3593 00	MB A
2018 QR5	?	2.864	0.0 78	0	0	10.1 50	1.6447 10	MB A
2018 QP5	?	3.061	0.0 87	0	0	10.4 07	1.7840 80	MB A
2018 QO5	?	2.665	0.0 14	0	0	10.0 90	1.6451 30	MB A
2018 QN5	?	3.166	0.1 13	0	0	11.3 73	1.8026 10	MB A

2018 QM5	?	3.042	0.0 34	0	0	11.0 02	1.9365 30	MB A
2018 QL5	?	2.700	0.3 15	0	0	8.96 7	0.8754 29	MB A
2018 QG5	?	2.753	0.2 21	0	0	9.37 0	1.1475 70	MB A
2018 QF5	?	2.774	0.3 09	0	0	10.4 65	0.9701 02	MB A
2018 QE5	?	2.269	0.2 47	0	0	8.18 9	0.6941 89	MB A
2018 QD5	?	2.587	0.2 56	0	0	9.44 6	0.9223 97	MB A
2018 QC5	?	2.765	0.3 30	0	0	9.91 7	0.9286 86	MB A
2018 QB5	?	3.154	0.0 96	0	0	13.1 23	1.9445 40	MB A
2018 QZ4	?	3.234	0.2 12	0	0	11.1 63	1.5879 50	OM B
2018 QW4	?	2.405	0.2 19	0	0	10.5 70	0.9867 58	MB A
2018 QV4	?	2.770	0.1 85	0	0	11.8 95	1.3755 70	MB A
2018 QU4	?	2.619	0.1 04	0	0	9.58 8	1.3506 10	MB A
2018 QT4	?	2.629	0.0 63	0	0	9.85 2	1.4477 90	MB A
2018 QS4	?	2.998	0.0 92	0	0	10.7 34	1.7291 80	MB A
2018 QO4	?	2.377	0.1 02	0	0	9.19 6	1.1526 40	MB A
2018 QN4	?	2.485	0.1 79	0	0	9.06 7	1.0306 20	MB A
2018 QL4	?	3.177	0.2 68	0	0	10.6 80	1.3419 20	MB A
2018 QF4	?	2.732	0.0 34	0	0	10.8 77	1.6340 90	MB A

2018 QD4	?	2.248	0.2 22	0	0	11.3 02	0.8476 83	MB A
2018 QC4	?	1.981	0.0 80	0	0	10.1 75	0.8361 42	IMB
2018 QB4	?	2.392	0.0 83	0	0	9.28 3	1.1878 30	MB A
2018 QA4	?	2.911	0.2 12	0	0	9.87 8	1.2983 50	MB A
2018 QZ3	?	5.119	0.0 42	0	0	12.8 93	3.9291 10	TJN
2018 QV3	?	2.426	0.1 34	0	0	9.36 9	1.0988 60	MB A
2018 QU3	?	3.232	0.0 91	0	0	10.6 34	1.9250 60	OM B
2018 QT3	?	2.784	0.1 79	0	0	10.5 26	1.2812 70	MB A
2018 QR3	?	2.599	0.1 18	0	0	10.1 45	1.3176 40	MB A
2018 QQ3	?	2.649	0.2 84	0	0	9.56 7	0.9269 26	MB A
2018 QP3	?	2.930	0.2 69	0	0	9.33 6	1.1445 40	MB A
2018 QO3	?	2.573	0.1 54	0	0	9.88 0	1.1991 00	MB A
2018 QN3	?	2.172	0.1 92	0	0	8.23 2	0.7477 52	MB A
2018 QM3	?	2.726	0.1 42	0	0	9.70 2	1.3267 20	MB A
2018 QL3	?	2.992	0.2 84	0	0	9.65 5	1.1346 40	MB A
2018 QK3	?	3.103	0.0 89	0	0	11.2 18	1.8504 30	MB A
2018 QJ3	?	2.586	0.1 46	0	0	9.39 6	1.2109 10	MB A
2018 QH3	?	2.687	0.2 16	0	0	9.18 3	1.0971 60	MB A

2018 QG3	?	3.159	0.0 88	0	0	11.1 78	1.8976 10	MB A
2018 QF3	?	2.746	0.3 00	0	0	8.85 7	0.9071 94	MB A
2018 QE3	?	2.797	0.0 88	0	0	10.0 34	1.5558 30	MB A
2018 QC3	?	2.763	0.0 73	0	0	10.0 78	1.5511 50	MB A
2018 QB3	?	2.648	0.1 04	0	0	10.0 82	1.4090 00	MB A
2018 QZ2	?	3.082	0.1 67	0	0	10.0 75	1.5762 10	MB A
2018 QY2	?	2.651	0.1 63	0	0	9.98 9	1.2363 50	MB A
2018 QX2	?	2.925	0.0 42	0	0	10.5 71	1.8107 80	MB A
2018 QW2	?	3.246	0.1 99	0	0	10.6 04	1.5879 90	OM B
2018 QU2	?	3.099	0.3 68	0	0	10.7 32	1.0215 30	MB A
2018 QS2	?	2.538	0.1 82	0	0	10.0 26	1.0725 50	MB A
2018 QR2	?	2.331	0.2 87	0	0	8.68 0	0.6872 16	MC A
2018 QQ2	?	2.735	0.2 90	0	0	10.6 95	0.9472 71	MB A
2018 QP2	?	2.784	0.3 08	0	0	9.67 7	0.9695 67	MB A
2018 QN2	?	2.847	0.3 19	0	0	11.5 00	1.0493 40	MB A
2018 QL2	?	4.027	0.3 22	0	0	10.2 95	1.7309 10	OM B
2018 QK2	?	3.037	0.1 30	0	0	10.3 76	1.6649 00	MB A
2018 QF2	?	3.096	0.1 88	0	0	9.97 3	1.5198 10	MB A

2018 QD2	?	3.182	0.1 12	0	0	11.5 21	1.8456 40	MB A
2018 QC2	?	3.160	0.1 61	0	0	10.2 11	1.6405 10	MB A
2018 QB2	?	2.888	0.0 52	0	0	10.6 78	1.7369 60	MB A
2018 QA2	?	2.772	0.0 43	0	0	10.1 68	1.6373 40	MB A
2018 QY1	?	2.668	0.1 16	0	0	9.77 8	1.3424 50	MB A
2018 QX1	?	2.593	0.1 19	0	0	10.3 30	1.2776 20	MB A
2018 QW1	?	1.034	0.3 26	0	0	8.49 0	0.0001 04	APO
2018 QV1	?	2.284	0.5 15	0	0	8.91 0	0.1827 05	AM O
2018 QU1	?	1.881	0.5 43	0	0	6.43 5	0.0262 41	APO
2018 QT1	?	0.659	0.5 95	0	0	14.0 40	0.0332 02	ATE
2018 QS1	?	0.980	0.1 42	0	0	10.8 34	0.0011 07	ATE
2018 QR1	?	1.432	0.3 26	0	0	10.5 73	0.0005 46	APO
2018 QQ1	?	1.900	0.4 09	0	0	6.21 2	0.1202 26	AM O
2018 QP1	?	1.692	0.4 72	0	0	7.05 4	0.1431 74	APO
2018 QO1	?	1.475	0.1 94	0	0	8.39 6	0.1882 05	AM O
2018 QN1	?	2.282	0.5 57	0	0	6.46 8	0.0498 99	APO (PH A)
2018 QM1	?	2.265	0.3 38	0	0	7.98 4	0.5289 29	MC A
2018 QL1	?	2.322	0.3 92	0	0	7.56 4	0.4393 70	MC A

2018 QK1	?	2.883	0.4 50	0	0	8.55 0	0.6051 52	MC A
2018 QJ1	?	2.158	0.5 40	0	0	6.47 2	0.0154 89	APO
2018 QH1	?	1.347	0.3 44	0	0	7.07 3	0.0273 88	APO
2018 QG1	?	3.167	0.5 19	0	0	10.9 23	0.5238 71	MC A
2018 QF1	?	1.275	0.2 19	0	0	9.43 9	0.0341 35	APO
2018 QE1	?	2.740	0.4 76	0	0	8.16 0	0.4392 88	MC A
2018 QD1	?	1.768	0.1 19	0	0	13.8 77	0.6326 88	MC A
2018 QC1	?	3.131	0.4 96	0	0	8.52 7	0.5904 69	MC A
2018 QB1	?	2.195	0.2 78	0	0	7.77 8	0.5883 10	MC A
2018 QA1	?	2.053	0.4 96	0	0	7.41 1	0.0277 04	AM O
2018 QZ	?	2.159	0.5 40	0	0	6.48 1	0.0130 48	APO
2018 QY	?	1.413	0.4 55	0	0	7.54 3	0.0269 45	APO
2018 QX	?	1.477	0.3 09	0	0	4.86 1	0.0123 43	AM O
2018 QW	?	1.345	0.2 10	0	0	8.90 2	0.0619 09	AM O
2018 QV	?	3.340	0.6 00	0	0	8.24 0	0.3699 58	OM B
2018 QU	?	1.827	0.3 62	0	0	7.55 5	0.1557 41	AM O
2018 QT	?	2.275	0.6 13	0	0	6.62 0	0.0071 37	APO (PH A)
2018 QS	?	1.817	0.4 80	0	0	5.64 6	0.0020 74	APO



2018 QR	?	2.091	0.4 64	0	0	6.20 3	0.1100 97	AM O
2018 QQ	?	1.308	0.2 16	0	0	4.76 0	0.0375 50	AM O
2018 QP	?	2.453	0.5 17	0	0	6.85 8	0.1824 22	AM O
2018 QO	?	1.489	0.2 63	0	0	8.01 0	0.1436 82	AM O
2018 QN	?	2.392	0.3 89	0	0	7.68 4	0.4697 75	MC A
2018 QM	?	1.846	0.0 81	0	0	10.9 33	0.7197 82	IMB
2018 QL	?	2.273	0.4 19	0	0	7.45 8	0.3193 97	MC A
2018 QK	?	1.703	0.1 31	0	0	11.5 00	0.4760 51	MC A
2018 QJ	?	1.889	0.1 12	0	0	11.1 51	0.7416 89	IMB
2018 QH	?	1.821	0.0 42	0	0	12.1 32	0.7612 88	IMB
2018 QG	?	1.879	0.1 10	0	0	11.0 47	0.7301 70	IMB
2018 QF	?	1.915	0.0 66	0	0	10.0 39	0.8057 75	IMB
2018 QE	?	1.313	0.2 47	0	0	4.31 2	0.0022 22	APO
2018 QD	?	1.872	0.1 01	0	0	11.1 39	0.7799 45	IMB
2018 QC	?	1.849	0.0 72	0	0	11.2 38	0.7581 50	IMB
2018 QB	?	2.561	0.4 17	0	0	11.5 17	0.6851 16	MC A
2018 QA	?	1.988	0.7 08	0	0	8.42 9	0.0347 08	APO
2018 PL28	?	19.57 0	0.8 63	0	0	22.9 47	2.3672 70	CEN

2018 PK28	?	2.855	0.0 84	0	0	10.1 13	1.6105 20	MB A
2018 PJ28	?	3.120	0.2 80	0	0	11.4 72	1.3147 50	MB A
2018 PH28	?	2.518	0.0 47	0	0	9.72 7	1.3849 00	MB A
2018 PG28	?	2.408	0.1 69	0	0	9.06 9	1.0260 20	MB A
2018 PD28	?	2.417	0.0 54	0	0	10.6 76	1.3072 30	MB A
2018 PC28	?	2.589	0.1 06	0	0	10.7 34	1.3042 30	MB A
2018 PB28	?	2.262	0.1 49	0	0	8.93 1	0.9160 39	MB A
2018 PY27	?	2.597	0.2 45	0	0	9.75 9	0.9769 67	MB A
2018 PX27	?	2.637	0.0 49	0	0	9.89 2	1.5067 40	MB A
2018 PV27	?	2.625	0.0 97	0	0	10.0 60	1.3830 20	MB A
2018 PU27	?	2.665	0.1 16	0	0	9.66 6	1.3617 40	MB A
2018 PT27	?	3.214	0.2 49	0	0	10.6 07	1.4117 50	OM B
2018 PS27	?	2.936	0.0 88	0	0	10.9 24	1.7186 60	MB A
2018 PR27	?	3.143	0.0 96	0	0	11.2 35	1.8437 40	MB A
2018 PO27	?	1.904	0.0 93	0	0	9.88 5	0.8107 24	IMB
2018 PN27	?	2.212	0.1 99	0	0	8.36 0	0.7702 08	MB A
2018 PA27	?	3.090	0.1 17	0	0	10.3 34	1.7151 90	MB A
2018 PY26	?	2.390	0.2 09	0	0	8.63 1	0.8872 03	MB A

2018 PW26	?	2.558	0.2 67	0	0	8.75 5	0.8630 73	MB A
2018 PV26	?	3.193	0.0 87	0	0	11.4 96	1.9399 30	MB A
2018 PU26	?	3.068	0.1 72	0	0	10.0 49	1.5399 50	MB A
2018 PS26	?	2.526	0.1 32	0	0	9.30 4	1.1774 10	MB A
2018 PQ26	?	2.262	0.1 95	0	0	8.43 1	0.8052 63	MB A
2018 PN26	?	2.627	0.0 60	0	0	9.83 7	1.4578 90	MB A
2018 PM26	?	3.194	0.2 22	0	0	13.1 97	1.6620 90	MB A
2018 PL26	?	3.001	0.0 92	0	0	10.5 91	1.7439 60	MB A
2018 PJ26	?	3.205	0.2 64	0	0	12.0 44	1.4704 70	OM B
2018 PH26	?	3.178	0.2 43	0	0	10.8 55	1.4424 40	MB A
2018 PG26	?	3.129	0.1 52	0	0	13.2 28	1.6633 10	MB A
2018 PE26	?	2.978	0.2 31	0	0	10.4 97	1.2855 40	MB A
2018 PZ25	?	2.996	0.1 34	0	0	10.4 51	1.6204 30	MB A
2018 PV25	?	3.072	0.2 74	0	0	9.53 4	1.2347 50	MB A
2018 PU25	?	3.897	0.1 88	0	0	10.9 07	2.1641 80	OM B
2018 PT25	?	3.149	0.0 87	0	0	10.5 78	1.8771 70	MB A
2018 PP25	?	3.155	0.1 10	0	0	10.5 90	1.7941 10	MB A
2018 PE25	?	2.381	0.2 33	0	0	10.7 19	0.9713 76	MB A

2018 PB25	?	3.256	0.1 13	0	0	10.6 27	1.8867 90	OM B
2018 PA25	?	1.355	0.5 37	0	0	8.03 4	0.0197 61	APO
2018 PZ24	?	2.468	0.4 49	0	0	7.56 8	0.3511 69	MC A
2018 PY24	?	2.129	0.1 96	0	0	14.2 69	0.7239 15	MB A
2018 PX24	?	1.846	0.5 86	0	0	6.97 6	0.0890 54	APO
2018 PV24	?	1.067	0.2 19	0	0	5.34 8	0.0026 34	APO
2018 PU24	?	1.766	0.4 73	0	0	5.66 2	0.0135 31	APO (PH A)
2018 PT24	?	2.195	0.3 42	0	0	7.53 3	0.4389 35	MC A
2018 PS24	?	2.368	0.5 53	0	0	6.45 5	0.0804 64	AM O
2018 PR24	?	2.011	0.5 65	0	0	6.84 0	0.0338 85	APO
2018 PQ24	?	2.122	0.4 69	0	0	6.35 5	0.1177 71	AM O
2018 PP24	?	2.865	0.5 38	0	0	8.24 2	0.3208 85	MC A
2018 PO24	?	2.199	0.3 63	0	0	7.41 7	0.3916 16	MC A
2018 PN24	?	2.167	0.2 84	0	0	7.90 9	0.5473 83	MC A
2018 PM24	?	2.639	0.3 97	0	0	8.77 3	0.6497 63	MC A
2018 PL24	?	2.387	0.3 97	0	0	7.79 4	0.4500 20	MC A
2018 PK24	?	1.942	0.6 63	0	0	7.80 2	0.0405 19	APO (PH A)

2018 PJ24	?	2.285	0.4 01	0	0	7.28 0	0.3716 68	MC A
2018 PH24	?	2.362	0.4 23	0	0	7.26 8	0.3617 89	MC A
2018 PG24	?	2.820	0.5 16	0	0	8.38 6	0.4412 85	MC A
2018 PF24	?	1.505	0.1 25	0	0	9.61 1	0.3127 19	MC A
2018 PE24	?	2.793	0.4 26	0	0	8.28 9	0.6079 92	MC A
2018 PD24	?	1.849	0.1 30	0	0	11.0 40	0.6249 14	MC A
2018 PC24	?	3.350	0.4 90	0	0	9.40 4	0.7120 57	OM B
2018 PB24	?	2.565	0.4 08	0	0	8.31 2	0.5236 44	MC A
2018 PA24	?	2.082	0.3 00	0	0	7.69 5	0.4830 12	MC A
2018 PZ23	?	1.554	0.3 79	0	0	5.10 1	0.0383 01	APO
2018 PY23	?	2.060	0.7 86	0	0	9.09 9	0.0005 44	APO
2018 PX23	?	2.219	0.6 04	0	0	7.31 2	0.1148 85	APO
2018 PW23	?	2.331	0.4 52	0	0	7.06 2	0.2744 80	AM O
2018 PV23	?	2.409	0.4 61	0	0	7.69 0	0.3276 46	AM O
2018 PU23	?	0.964	0.0 84	0	0	4.42 2	0.0057 27	ATE
2018 PT23	?	2.352	0.6 68	0	0	7.17 8	0.0133 90	APO
2018 PS23	?	2.658	0.5 16	0	0	7.38 7	0.2977 25	AM O
2018 PR23	?	1.224	0.2 59	0	0	4.81 3	0.0169 56	APO

2018 PQ23	?	2.165	0.6 12	0	0	8.46 8	0.0435 61	APO (PH A)
2018 PP23	?	1.630	0.2 08	0	0	7.71 3	0.2768 53	AM O
2018 PO23	?	2.217	0.3 49	0	0	18.6 28	0.5541 96	MC A
2018 PN23	?	2.084	0.4 16	0	0	6.68 2	0.2100 51	AM O
2018 PM23	?	1.467	0.2 21	0	0	9.52 1	0.1332 95	AM O
2018 PL23	?	1.567	0.7 87	0	0	11.0 34	0.0324 29	APO (PH A)
2018 PK23	?	2.764	0.3 99	0	0	8.86 7	0.6607 64	MC A
2018 PJ23	?	1.913	0.0 74	0	0	11.7 11	0.7830 74	IMB
2018 PH23	?	3.073	0.4 60	0	0	10.0 70	0.7104 62	MC A
2018 PG23	?	1.870	0.0 89	0	0	10.3 58	0.7488 59	IMB
2018 PF23	?	3.105	0.0 88	0	0	10.9 03	1.8365 20	MB A
2018 PE23	?	2.711	0.2 96	0	0	13.3 97	1.0314 30	MB A
2018 PD23	?	2.238	0.3 40	0	0	7.49 7	0.4687 71	MC A
2018 PB23	?	1.866	0.2 31	0	0	12.6 22	0.5941 97	MC A
2018 PA23	?	2.171	0.3 34	0	0	7.39 2	0.4382 94	MC A
2018 PZ22	?	1.577	0.0 90	0	0	11.8 75	0.4487 20	MC A
2018 PY22	?	2.079	0.3 65	0	0	6.97 9	0.3072 77	MC A

2018 PX22	?	1.918	0.2 02	0	0	9.57 8	0.6337 93	MC A
2018 PW22	?	2.589	0.3 48	0	0	9.17 0	0.7530 46	MB A
2018 PV22	?	1.877	0.0 88	0	0	10.9 22	0.7541 12	IMB
2018 PU22	?	1.844	0.0 69	0	0	10.9 55	0.7672 97	IMB
2018 PT22	?	1.802	0.0 76	0	0	9.92 1	0.6891 67	MC A
2018 PS22	?	1.980	0.1 07	0	0	12.5 20	0.7946 40	IMB
2018 PR22	?	1.954	0.1 11	0	0	11.0 59	0.8302 09	IMB
2018 PQ22	?	1.971	0.1 51	0	0	9.32 7	0.6907 84	IMB
2018 PP22	?	1.743	0.1 19	0	0	9.34 5	0.6070 27	MC A
2018 PO22	?	1.796	0.4 48	0	0	6.61 4	0.0047 06	APO
2018 PN22	?	0.997	0.0 39	0	0	4.55 8	0.0115 66	ATE
2018 PM22	?	2.578	0.5 75	0	0	6.70 8	0.0881 01	AM O
2018 PL22	?	2.154	0.5 01	0	0	6.62 3	0.0747 20	AM O
2018 PK22	?	2.257	0.5 10	0	0	6.48 7	0.1071 19	AM O
2018 PJ22	?	2.683	0.5 62	0	0	8.00 8	0.1761 67	AM O
2018 PH22	?	1.651	0.6 13	0	0	7.54 3	0.0418 06	APO
2018 PG22	?	1.291	0.4 17	0	0	6.78 6	0.1465 98	APO
2018 PF22	?	2.367	0.8 09	0	0	11.1 04	0.3593 36	APO

2018 PE22	?	2.818	0.5 68	0	0	7.24 7	0.2244 92	AM O
2018 PD22	?	0.794	0.5 42	0	0	11.2 55	0.0392 84	ATE
2018 PC22	?	2.136	0.4 66	0	0	6.82 1	0.1251 56	AM O
2018 PB22	?	1.440	0.8 27	0	0	18.3 67	0.3949 55	APO
2018 PA22	?	2.014	0.4 58	0	0	6.00 9	0.0833 51	AM O
2018 PZ21	?	0.857	0.2 57	0	0	6.91 5	0.0001 68	ATE
2018 PY21	?	2.197	0.4 25	0	0	7.04 0	0.2540 90	AM O
2018 PX21	?	1.347	0.1 79	0	0	10.2 13	0.1783 45	AM O
2018 PW21	?	2.135	0.4 92	0	0	6.66 4	0.0871 75	AM O
2018 PV21	?	2.001	0.4 54	0	0	6.24 7	0.1063 37	AM O
2018 PU21	?	1.313	0.0 57	0	0	8.07 0	0.2663 84	AM O
2018 PT21	?	2.735	0.5 60	0	0	8.34 5	0.3376 64	AM O
2018 PS21	?	1.819	0.1 03	0	0	10.3 34	0.6551 90	MC A
2018 PR21	?	1.990	0.1 50	0	0	11.6 65	0.8087 09	IMB
2018 PQ21	?	1.913	0.1 08	0	0	9.71 1	0.7217 66	IMB
2018 PP21	?	2.100	0.3 42	0	0	7.14 9	0.3711 38	MC A
2018 PO21	?	1.835	0.1 10	0	0	11.4 28	0.6515 13	MC A
2018 PN21	?	1.774	0.4 15	0	0	6.27 0	0.0615 54	AM O



2018 PM21	?	1.316	0.1 73	0	0	4.86 9	0.0729 23	AM O
2018 PL21	?	1.734	0.4 69	0	0	8.81 8	0.1866 49	APO
2018 PK21	?	0.988	0.0 81	0	0	4.14 6	0.0071 25	ATE
2018 PJ21	?	2.211	0.4 55	0	0	6.95 8	0.1950 60	AM O
2018 PH21	?	1.906	0.6 52	0	0	7.51 9	0.0186 92	APO
2018 PG21	?	2.532	0.6 44	0	0	8.21 5	0.0951 46	APO
2018 PF21	?	1.996	0.3 61	0	0	10.0 88	0.4190 73	AM O
2018 PE21	?	1.891	0.3 29	0	0	6.93 9	0.3186 51	AM O
2018 PD21	?	1.860	0.2 42	0	0	10.0 58	0.4071 82	MC A
2018 PC21	?	1.883	0.2 42	0	0	13.0 26	0.4400 81	MC A
2018 PB21	?	2.149	0.3 93	0	0	7.31 9	0.2898 27	MC A
2018 PA21	?	2.276	0.4 23	0	0	7.05 7	0.3013 25	MC A
2018 PZ20	?	2.185	0.3 93	0	0	7.33 7	0.3137 84	MC A
2018 PY20	?	1.928	0.3 05	0	0	6.87 9	0.3298 22	MC A
2018 PX20	?	2.540	0.4 27	0	0	10.9 27	0.6354 15	MC A
2018 PW20	?	1.385	0.0 41	0	0	6.76 6	0.3425 99	MC A
2018 PV20	?	1.877	0.1 46	0	0	10.9 31	0.7614 70	MC A
2018 PU20	?	2.543	0.3 71	0	0	11.6 48	0.7630 55	MC A

2018 PT20	?	2.316	0.4 40	0	0	7.26 3	0.3054 43	AM O
2018 PS20	?	2.801	0.5 06	0	0	7.85 2	0.3866 78	MC A
2018 PR20	?	2.450	0.4 14	0	0	7.57 4	0.4238 22	MC A
2018 PQ20	?	1.903	0.2 13	0	0	7.65 8	0.5418 19	MC A
2018 PP20	?	2.845	0.4 88	0	0	8.14 2	0.4573 44	MC A
2018 PO20	?	1.320	0.2 34	0	0	5.30 2	0.0179 69	APO
2018 PN20	?	1.689	0.3 78	0	0	7.49 1	0.0388 22	AM O
2018 PM20	?	1.998	0.5 10	0	0	5.90 4	0.0086 53	APO
2018 PL20	?	1.418	0.2 25	0	0	6.61 8	0.0977 48	AM O
2018 PK20	?	0.891	0.2 75	0	0	7.55 2	0.0200 02	ATE
2018 PJ20	?	2.291	0.6 08	0	0	6.58 3	0.0016 25	APO
2018 PH20	?	2.613	0.1 86	0	0	14.0 53	1.1155 10	MB A
2018 PG20	?	2.613	0.2 63	0	0	13.2 53	0.9726 81	MB A
2018 PF20	?	3.048	0.4 88	0	0	9.25 4	0.5501 07	MC A
2018 PE20	?	2.126	0.3 32	0	0	7.21 6	0.4052 07	MC A
2018 PD20	?	1.069	0.3 20	0	0	6.86 4	0.0001 94	APO
2018 PC20	?	1.709	0.4 04	0	0	5.80 8	0.0280 13	AM O
2018 PB20	?	2.921	0.5 79	0	0	7.61 2	0.2660 14	AM O

2018 PA20	?	1.658	0.2 82	0	0	12.0 48	0.3767 74	AM O
2018 PZ19	?	2.124	0.5 78	0	0	6.68 0	0.0593 14	APO
2018 PY19	?	2.960	0.5 27	0	0	8.60 5	0.4768 59	MC A
2018 PX19	?	1.994	0.3 62	0	0	11.2 54	0.4295 65	AM O
2018 PW19	?	2.872	0.4 21	0	0	9.31 6	0.6556 10	MC A
2018 PV19	?	2.290	0.3 74	0	0	7.56 5	0.4373 21	MC A
2018 PU19	?	2.270	0.3 74	0	0	8.08 2	0.4074 91	MC A
2018 PS19	?	2.272	0.2 02	0	0	8.92 3	0.8094 80	MB A
2018 PE19	?	2.163	0.1 57	0	0	8.29 5	0.8261 76	MB A
2018 PJ18	?	2.640	0.3 40	0	0	8.68 5	0.7292 43	MB A
2018 PH18	?	2.207	0.2 05	0	0	8.20 9	0.7471 14	MB A
2018 PG18	?	3.117	0.2 73	0	0	10.5 02	1.3246 30	MB A
2018 PF18	?	1.851	0.2 47	0	0	8.25 2	0.3799 29	MC A
2018 PC18	?	2.234	0.3 74	0	0	7.70 4	0.3892 76	MC A
2018 PO17	?	2.220	0.2 93	0	0	7.88 5	0.5552 46	MC A
2018 PM17	?	2.348	0.2 07	0	0	8.66 7	0.8516 11	MB A
2018 PG17	?	5.273	0.0 76	0	0	13.3 23	3.8952 10	TJN
2018 PE17	?	2.902	0.0 16	0	0	10.5 34	1.8454 90	MB A

2018 PC17	?	3.088	0.1 26	0	0	10.5 27	1.6835 60	MB A
2018 PZ16	?	1.896	0.1 02	0	0	10.2 67	0.7250 57	IMB
2018 PS16	?	2.962	0.0 25	0	0	11.2 07	1.9035 60	MB A
2018 PR16	?	2.327	0.2 36	0	0	8.32 7	0.7630 76	MB A
2018 PQ16	?	2.703	0.1 26	0	0	10.2 04	1.3635 60	MB A
2018 PP16	?	3.127	0.2 05	0	0	11.1 79	1.5177 20	MB A
2018 PM16	?	2.814	0.2 09	0	0	9.74 1	1.2270 40	MB A
2018 PG16	?	2.683	0.1 35	0	0	9.64 4	1.3151 10	MB A
2018 PF16	?	2.191	0.2 13	0	0	8.15 5	0.7138 02	MB A
2018 PW14	?	2.569	0.2 11	0	0	9.39 8	1.0321 00	MB A
2018 PC14	?	3.224	0.1 82	0	0	12.6 45	1.7269 40	OM B
2018 PZ13	?	2.754	0.1 55	0	0	10.0 76	1.3367 30	MB A
2018 PS13	?	2.421	0.1 73	0	0	9.44 4	0.9865 09	MB A
2018 PQ13	?	2.775	0.0 48	0	0	10.1 80	1.6286 40	MB A
2018 PM12	?	2.325	0.0 92	0	0	9.22 3	1.1000 50	MB A
2018 PK12	?	2.282	0.1 34	0	0	8.93 1	0.9708 00	MB A
2018 PC12	?	3.212	0.1 05	0	0	11.0 57	1.8708 50	OM B
2018 PZ11	?	2.290	0.1 65	0	0	8.70 0	0.9032 06	MB A

2018 PY11	?	3.004	0.0 43	0	0	10.9 97	1.9040 20	MB A
2018 PX11	?	2.656	0.1 66	0	0	9.70 5	1.2186 20	MB A
2018 PS11	?	2.340	0.1 65	0	0	9.32 0	0.9793 60	MB A
2018 PQ11	?	2.624	0.1 80	0	0	9.30 7	1.1420 30	MB A
2018 PP11	?	5.182	0.0 36	0	0	12.6 53	4.0031 80	TJN
2018 PH11	?	2.259	0.2 39	0	0	8.21 1	0.7072 96	MB A
2018 PC11	?	2.213	0.1 27	0	0	8.68 7	0.9236 26	MB A
2018 PB11	?	3.186	0.1 79	0	0	10.7 02	1.6055 10	MB A
2018 PA11	?	2.777	0.2 16	0	0	10.2 47	1.1622 20	MB A
2018 PY10	?	2.644	0.2 42	0	0	9.58 8	1.0198 60	MB A
2018 PV10	?	2.633	0.6 05	0	0	7.04 0	0.1003 25	AM O
2018 PU10	?	1.996	0.4 25	0	0	6.21 0	0.1427 23	AM O
2018 PT10	?	1.817	0.3 53	0	0	11.6 18	0.3898 27	AM O
2018 PS10	?	2.221	0.4 63	0	0	6.79 0	0.1834 42	AM O
2018 PR10	?	0.731	0.5 23	0	0	12.2 22	0.0517 93	ATE
2018 PQ10	?	1.989	0.5 07	0	0	5.91 8	0.0266 65	APO
2018 PP10	?	1.561	0.4 23	0	0	6.82 6	0.0919 06	APO
2018 PO10	?	2.108	0.4 43	0	0	6.70 1	0.1733 40	AM O

2018 PN10	?	1.654	0.3 42	0	0	6.22 7	0.0805 17	AM O
2018 PM10	?	1.782	0.4 28	0	0	5.97 4	0.0078 04	AM O
2018 PL10	?	1.423	0.2 94	0	0	7.54 5	0.0231 86	APO
2018 PK10	?	1.758	0.2 99	0	0	7.51 4	0.2205 96	AM O
2018 PJ10	?	2.690	0.5 92	0	0	20.6 96	0.0907 80	AM O
2018 PH10	?	2.278	0.1 73	0	0	8.68 5	0.8951 17	MB A
2018 PG10	?	2.444	0.4 58	0	0	12.4 23	0.4112 73	MC A
2018 PF10	?	2.242	0.4 14	0	0	7.35 4	0.3415 25	MC A
2018 PE10	?	2.724	0.3 97	0	0	8.80 7	0.6728 50	MC A
2018 PD10	?	2.816	0.4 88	0	0	8.84 3	0.5396 38	MC A
2018 PC10	?	2.377	0.3 30	0	0	8.51 8	0.6094 22	MC A
2018 PB10	?	1.914	0.1 11	0	0	10.1 68	0.7814 23	IMB
2018 PA10	?	1.814	0.1 55	0	0	9.35 7	0.6558 96	MC A
2018 PZ9	?	1.915	0.0 61	0	0	8.68 4	0.8257 71	IMB
2018 PY9	?	2.121	0.3 66	0	0	7.09 1	0.3298 43	MC A
2018 PX9	?	2.162	0.3 44	0	0	7.35 9	0.4026 16	MC A
2018 PW9	?	2.576	0.3 39	0	0	9.35 7	0.7410 42	MB A
2018 PV9	?	2.110	0.3 16	0	0	7.39 4	0.4450 54	MC A

2018 PU9	?	1.479	0.0 17	0	0	11.4 87	0.4691 36	MC A
2018 PT9	?	2.858	0.4 51	0	0	9.16 1	0.6260 13	MC A
2018 PS9	?	2.242	0.3 06	0	0	7.88 0	0.5671 28	MC A
2018 PR9	?	1.805	0.5 44	0	0	6.49 2	0.0331 57	APO
2018 PQ9	?	1.395	0.1 96	0	0	6.28 8	0.1120 54	AM O
2018 PP9	?	1.654	0.3 90	0	0	5.11 0	0.0034 04	APO
2018 PO9	?	2.121	0.4 64	0	0	6.64 2	0.1218 04	AM O
2018 PN9	?	1.282	0.1 73	0	0	7.97 6	0.0510 21	AM O
2018 PM9	?	1.296	0.1 72	0	0	6.12 7	0.0921 45	AM O
2018 PL9	?	3.281	0.6 74	0	0	11.4 21	0.2974 09	AM O
2018 PK9	?	1.858	0.4 73	0	0	5.58 2	0.0103 04	APO
2018 PJ9	?	1.983	0.4 83	0	0	5.88 9	0.0142 41	AM O
2018 PH9	?	2.053	0.4 55	0	0	6.20 8	0.1050 08	AM O
2018 PG9	?	2.461	0.6 50	0	0	7.08 4	0.0562 29	APO
2018 PF9	?	2.308	0.5 12	0	0	6.50 9	0.1136 45	AM O
2018 PE9	?	1.391	0.1 57	0	0	6.90 8	0.1786 97	AM O
2018 PD9	?	1.317	0.2 67	0	0	4.51 4	0.0015 82	APO
2018 PC9	?	1.507	0.2 50	0	0	12.8 53	0.1212 61	AM O

2018 PB9	?	1.846	0.3 20	0	0	6.54 0	0.2734 04	AM O
2018 PA9	?	2.413	0.3 73	0	0	8.27 4	0.5154 73	MC A
2018 PZ8	?	1.874	0.1 46	0	0	9.58 7	0.7235 48	MC A
2018 PY8	?	1.544	0.1 52	0	0	7.85 6	0.3095 22	MC A
2018 PX8	?	2.608	0.4 34	0	0	7.94 8	0.4750 82	MC A
2018 PW8	?	1.854	0.0 88	0	0	11.0 09	0.7376 09	IMB
2018 PV8	?	1.898	0.0 85	0	0	9.62 0	0.7767 08	IMB
2018 PU8	?	2.692	0.4 73	0	0	8.00 0	0.4320 47	MC A
2018 PT8	?	1.702	0.1 76	0	0	10.2 26	0.4268 49	MC A
2018 PS8	?	2.370	0.4 14	0	0	7.44 0	0.3818 68	MC A
2018 PR8	?	1.840	0.0 87	0	0	11.7 08	0.6965 44	IMB
2018 PQ8	?	1.724	0.1 21	0	0	13.4 74	0.5687 58	MC A
2018 PP8	?	2.550	0.3 82	0	0	9.12 7	0.6322 17	MC A
2018 PO8	?	1.845	0.0 96	0	0	11.1 38	0.7527 68	IMB
2018 PN8	?	2.005	0.1 27	0	0	13.1 97	0.7705 58	MB A
2018 PM8	?	1.897	0.1 33	0	0	10.1 91	0.7018 81	MC A
2018 PL8	?	1.048	0.3 70	0	0	8.82 0	0.0510 21	APO
2018 PK8	?	1.424	0.2 11	0	0	11.2 41	0.1091 44	AM O



2018 PJ8	?	2.057	0.4 87	0	0	6.27 9	0.0781 50	AM O
2018 PH8	?	2.166	0.5 26	0	0	5.97 2	0.0120 08	AM O
2018 PG8	?	2.148	0.4 72	0	0	6.66 3	0.1372 94	AM O
2018 PF8	?	2.863	0.6 39	0	0	10.8 92	0.0633 59	AM O
2018 PE8	?	2.615	0.3 73	0	0	8.39 6	0.6382 88	MC A
2018 PC8	?	2.841	0.4 05	0	0	9.47 4	0.7578 83	MB A
2018 PB8	?	2.321	0.3 66	0	0	7.62 0	0.4571 18	MC A
2018 PA8	?	2.159	0.3 76	0	0	7.54 9	0.3335 06	MC A
2018 PZ7	?	3.062	0.4 39	0	0	10.7 44	0.8634 82	MB A
2018 PY7	?	1.585	0.3 95	0	0	6.00 9	0.0019 28	APO
2018 PX7	?	2.125	0.4 55	0	0	6.67 6	0.1557 98	AM O
2018 PW7	?	1.429	0.4 08	0	0	5.81 3	0.0280 31	APO
2018 PV7	?	1.594	0.2 96	0	0	6.56 6	0.1514 87	AM O
2018 PU7	?	2.163	0.5 42	0	0	6.36 5	0.0150 55	APO
2018 PT7	?	1.908	0.4 47	0	0	6.43 3	0.0671 38	AM O
2018 PS7	?	2.386	0.4 59	0	0	7.39 5	0.2911 49	AM O
2018 PR7	?	1.026	0.1 10	0	0	4.81 1	0.0034 61	APO
2018 PQ7	?	1.827	0.1 51	0	0	12.2 20	0.6172 78	MC A

2018 PP7	?	2.154	0.3 77	0	0	7.15 3	0.3344 64	MC A
2018 PO7	?	1.654	0.1 77	0	0	9.10 3	0.5097 42	MC A
2018 PN7	?	3.117	0.3 49	0	0	13.0 82	1.2384 50	MB A
2018 PT6	?	2.875	0.0 78	0	0	10.1 97	1.6527 50	MB A
2018 PA3	?	2.379	0.1 16	0	0	9.11 9	1.1214 50	MB A
2018 PR2	?	2.537	0.1 57	0	0	10.0 37	1.1606 30	MB A
2018 PO2	?	3.150	0.1 86	0	0	12.8 19	1.6773 60	MB A
2018 PT1	?	2.192	0.1 58	0	0	8.35 5	0.8290 46	MB A
2018 PF1	?	3.231	0.2 88	0	0	12.2 90	1.4550 10	OM B
2018 PE	?	2.433	0.2 03	0	0	9.02 0	0.9337 70	MB A
2018 PC	?	1.031	0.0 75	0	0	8.54 6	0.0212 65	APO
2018 PB	?	2.341	0.2 98	0	0	8.78 8	0.6260 32	MC A
2018 PA	?	2.499	0.1 70	0	0	15.1 37	1.1374 20	MB A
2018 OF2	?	1.327	0.2 51	0	0	7.59 0	0.0026 49	APO
2018 OC2	?	3.189	0.1 43	0	0	10.4 38	1.7201 60	MB A
2018 OK1	?	2.834	0.0 54	0	0	10.9 02	1.6709 50	MB A
2018 OH1	?	2.683	0.4 69	0	0	8.87 7	0.4369 18	MC A
2018 OG1	?	2.350	0.1 40	0	0	9.03 3	1.0288 20	MB A

2018 OE1	?	2.447	0.2 44	0	0	9.68 1	0.9009 28	MB A
2018 OD1	?	2.378	0.2 85	0	0	9.90 5	0.8066 90	MB A
2018 OC1	?	2.673	0.4 88	0	0	9.67 1	0.4603 93	MC A
2018 OB1	?	3.184	0.6 90	0	0	7.19 0	0.0352 82	APO (PH A)
2018 OA1	?	2.151	0.5 08	0	0	6.74 5	0.0434 72	AM O
2018 OZ	?	1.032	0.2 45	0	0	6.93 3	0.0078 94	APO
2018 OY	?	2.131	0.5 47	0	0	6.16 4	0.0124 53	APO
2018 OX	?	2.664	0.4 42	0	0	8.34 6	0.4812 82	MC A
2018 OW	?	2.644	0.3 46	0	0	8.89 3	0.7186 72	MB A
2018 OV	?	2.665	0.3 36	0	0	9.83 7	0.8641 96	MB A
2018 OU	?	2.394	0.3 83	0	0	9.23 4	0.4702 45	MC A
2018 OT	?	2.433	0.4 88	0	0	9.07 1	0.2529 31	AM O
2018 OS	?	2.192	0.4 06	0	0	6.96 8	0.3010 62	MC A
2018 OR	?	3.535	0.5 37	0	0	8.53 0	0.6312 03	OM B
2018 OQ	?	0.746	0.3 71	0	0	9.56 3	0.0073 40	ATE
2018 OP	?	2.587	0.3 56	0	0	8.26 3	0.6630 87	MC A
2018 OO	?	2.615	0.4 85	0	0	8.10 1	0.3326 19	MC A
2018 ON	?	2.699	0.4 82	0	0	8.18 1	0.4029 88	MC A

2018 OM	?	2.353	0.7 83	0	0	9.48 7	0.0025 44	APO
2018 OL	?	2.534	0.6 54	0	0	7.84 2	0.0110 10	APO
2018 OK	?	2.322	0.5 15	0	0	6.66 3	0.1467 48	AM O
2018 OJ	?	2.183	0.3 48	0	0	7.62 6	0.4127 79	MC A
2018 OH	?	1.559	0.0 68	0	0	14.0 60	0.4950 56	MC A
2018 OG	?	2.359	0.5 82	0	0	6.86 0	0.0394 07	APO
2018 OF	?	1.286	0.2 66	0	0	9.00 0	0.0207 44	APO
2018 OE	?	2.544	0.3 84	0	0	8.67 4	0.6005 57	MC A
2018 OD	?	2.183	0.3 18	0	0	7.60 5	0.4839 61	MC A
2018 OC	?	3.131	0.2 38	0	0	12.1 24	1.5062 60	MB A
2018 OB	?	2.557	0.5 88	0	0	6.52 5	0.0378 09	AM O
2018 OA	?	1.995	0.1 04	0	0	9.23 2	0.8527 79	IMB
2018 NQ15	?	3.103	0.4 35	0	0	10.9 41	0.8485 05	MB A
2018 NP15	?	2.289	0.2 21	0	0	8.29 6	0.7720 18	MB A
2018 NG15	?	1.561	0.3 23	0	0	5.56 1	0.0851 71	AM O
2018 NF15	?	2.049	0.5 41	0	0	6.10 1	0.0178 76	APO (PH A)
2018 NE15	?	2.186	0.5 38	0	0	6.50 9	0.0490 40	APO (PH A)

2018 ND15	?	1.938	0.1 62	0	0	9.69 5	0.6371 94	MC A
2018 NC15	?	1.596	0.3 43	0	0	6.45 1	0.1174 53	AM O
2018 NB15	?	2.198	0.2 98	0	0	7.86 0	0.5499 71	MC A
2018 NA15	?	2.189	0.2 31	0	0	18.0 93	0.8015 61	MB A
2018 NZ14	?	2.647	0.4 70	0	0	11.1 94	0.4984 84	MC A
2018 NY14	?	1.262	0.7 72	0	0	13.6 42	0.0390 45	APO (PH A)
2018 NX14	?	2.028	0.2 85	0	0	11.5 94	0.5663 71	MC A
2018 NW14	?	2.405	0.2 27	0	0	9.33 5	0.9032 97	MB A
2018 NV14	?	2.572	0.1 00	0	0	10.4 93	1.3087 60	MB A
2018 NU14	?	2.485	0.1 68	0	0	9.03 8	1.0547 10	MB A
2018 NS14	?	3.163	0.0 71	0	0	10.9 20	1.9485 30	MB A
2018 NM14	?	2.290	0.2 38	0	0	8.41 5	0.7280 11	MB A
2018 NG14	?	2.807	0.2 16	0	0	9.70 9	1.1997 90	MB A
2018 NF14	?	3.000	0.3 25	0	0	10.1 46	1.0742 30	MB A
2018 NC14	?	2.255	0.2 11	0	0	8.48 7	0.7737 11	MB A
2018 NB14	?	2.369	0.1 05	0	0	9.48 8	1.1195 90	MB A
2018 NZ13	?	2.563	0.2 09	0	0	9.07 8	1.0138 90	MB A
2018 NW13	?	2.248	0.1 71	0	0	8.50 3	0.8525 03	MB A

2018 NV13	?	2.184	0.2 06	0	0	8.34 0	0.7195 69	MB A
2018 NU13	?	2.319	0.1 84	0	0	8.63 1	0.8870 21	MB A
2018 NT13	?	2.978	0.0 44	0	0	10.8 60	1.8312 10	MB A
2018 NQ13	?	2.431	0.1 53	0	0	9.02 8	1.0440 10	MB A
2018 NP13	?	2.284	0.2 38	0	0	8.28 8	0.7375 72	MB A
2018 NO13	?	3.173	0.2 23	0	0	10.1 68	1.4517 40	MB A
2018 NG13	?	2.253	0.1 83	0	0	8.78 3	0.8385 28	MB A
2018 NE13	?	3.030	0.1 54	0	0	10.4 42	1.5714 90	MB A
2018 NB13	?	2.381	0.1 24	0	0	9.28 5	1.0993 50	MB A
2018 NR12	?	3.024	0.1 68	0	0	10.9 48	1.5125 50	MB A
2018 NP12	?	3.157	0.2 30	0	0	10.5 17	1.4440 90	MB A
2018 NN12	?	1.835	0.0 80	0	0	9.83 3	0.6841 13	IMB
2018 NM12	?	2.774	0.4 60	0	0	8.30 5	0.5121 30	MC A
2018 NG12	?	2.358	0.1 96	0	0	8.67 3	0.8860 64	MB A
2018 NV11	?	3.159	0.1 36	0	0	10.7 12	1.7421 40	MB A
2018 NU11	?	3.005	0.2 20	0	0	11.5 20	1.3552 90	MB A
2018 NT11	?	3.184	0.1 33	0	0	11.0 00	1.7780 70	MB A
2018 NO11	?	2.360	0.1 31	0	0	8.95 6	1.0365 00	MB A

2018 NH11	?	2.390	0.0 74	0	0	9.52 0	1.2407 50	MB A
2018 NG11	?	2.407	0.0 62	0	0	9.57 3	1.2475 80	MB A
2018 NF11	?	3.159	0.2 07	0	0	10.3 74	1.4924 80	MB A
2018 NA11	?	2.718	0.0 94	0	0	10.5 49	1.4736 80	MB A
2018 NQ10	?	3.088	0.1 00	0	0	13.1 75	1.9003 20	MB A
2018 NP10	?	2.775	0.1 50	0	0	10.0 23	1.3897 10	MB A
2018 NB10	?	2.262	0.1 85	0	0	8.52 5	0.8355 89	MB A
2018 NZ9	?	2.818	0.1 91	0	0	9.61 0	1.2698 20	MB A
2018 NU9	?	2.768	0.1 49	0	0	9.76 1	1.3472 70	MB A
2018 NS9	?	2.651	0.1 13	0	0	9.75 8	1.3530 40	MB A
2018 NR9	?	2.382	0.0 76	0	0	9.53 3	1.1864 80	MB A
2018 NQ9	?	3.013	0.1 27	0	0	10.5 44	1.6306 10	MB A
2018 NP9	?	3.061	0.1 02	0	0	10.5 40	1.7436 20	MB A
2018 NL9	?	1.976	0.1 08	0	0	9.68 3	0.8142 31	IMB
2018 NX8	?	2.292	0.0 46	0	0	9.44 8	1.2107 80	MB A
2018 NQ8	?	3.124	0.2 07	0	0	10.9 64	1.5111 30	MB A
2018 NH8	?	2.726	0.1 21	0	0	9.80 1	1.3891 10	MB A
2018 ND8	?	5.355	0.0 70	0	0	12.5 11	3.9671 50	TJN

2018 NV7	?	3.142	0.0 40	0	0	11.2 64	2.0129 20	MB A
2018 NO7	?	3.155	0.0 52	0	0	11.3 89	2.0037 90	MB A
2018 NN7	?	2.570	0.3 13	0	0	12.5 00	0.9004 67	MB A
2018 NM7	?	3.201	0.2 02	0	0	12.7 63	1.6814 60	OM B
2018 NL7	?	2.278	0.2 44	0	0	8.18 7	0.7062 40	MB A
2018 NK7	?	3.150	0.1 90	0	0	10.0 84	1.5374 60	MB A
2018 NJ7	?	2.676	0.2 40	0	0	9.79 1	1.0260 00	MB A
2018 NY6	?	2.362	0.2 24	0	0	8.51 7	0.8174 44	MB A
2018 NV6	?	2.439	0.1 98	0	0	9.04 3	0.9400 47	MB A
2018 NU6	?	2.306	0.2 70	0	0	8.06 0	0.6732 93	MB A
2018 NH6	?	2.959	0.2 78	0	0	9.76 1	1.1506 60	MB A
2018 NF6	?	2.263	0.1 65	0	0	8.74 9	0.9016 83	MB A
2018 NE6	?	2.567	0.1 61	0	0	10.1 89	1.1371 30	MB A
2018 NA6	?	3.176	0.0 55	0	0	11.0 11	1.9858 50	MB A
2018 NZ5	?	2.180	0.0 63	0	0	8.80 1	1.0320 10	MB A
2018 NY5	?	2.715	0.0 34	0	0	10.2 25	1.6320 90	MB A
2018 NR5	?	2.184	0.2 91	0	0	7.67 4	0.5348 81	MC A
2018 NQ5	?	1.917	0.0 92	0	0	10.1 22	0.8423 33	IMB



2018 NN5	?	2.697	0.2 64	0	0	9.98 0	0.9817 48	MB A
2018 NL5	?	3.179	0.0 69	0	0	11.1 89	1.9654 80	MB A
2018 NK5	?	2.560	0.0 54	0	0	10.8 47	1.4407 90	MB A
2018 NJ5	?	3.181	0.2 88	0	0	12.1 07	1.3705 90	MB A
2018 NG5	?	2.868	0.1 47	0	0	10.7 61	1.4823 70	MB A
2018 NE5	?	3.134	0.2 21	0	0	11.8 32	1.4565 60	MB A
2018 ND5	?	2.589	0.1 69	0	0	10.5 92	1.1337 90	MB A
2018 NA5	?	3.152	0.1 50	0	0	10.6 88	1.6611 50	MB A
2018 NV4	?	2.287	0.1 71	0	0	11.6 25	0.8817 62	MB A
2018 NU4	?	2.314	0.3 80	0	0	7.54 0	0.4348 40	MC A
2018 NT4	?	2.236	0.3 30	0	0	8.15 3	0.5183 53	MC A
2018 NS4	?	2.960	0.3 76	0	0	12.2 36	1.0126 50	MB A
2018 NR4	?	2.134	0.5 27	0	0	20.0 02	0.4354 52	APO
2018 NQ4	?	2.638	0.3 97	0	0	13.3 05	0.6008 53	MC A
2018 NP4	?	1.925	0.2 17	0	0	11.3 87	0.6737 57	MC A
2018 NO4	?	2.434	0.5 12	0	0	7.35 5	0.1808 44	AM O
2018 NN4	?	2.685	0.5 73	0	0	10.7 80	0.1506 21	AM O
2018 NM4	?	1.692	0.2 52	0	0	8.12 6	0.2558 81	AM O

2018 NL4	?	1.944	0.5 50	0	0	6.28 0	0.0163 84	APO
2018 NK4	?	1.704	0.3 77	0	0	5.35 6	0.0463 54	AM O
2018 NJ4	?	0.956	0.1 82	0	0	9.99 1	0.0830 28	ATE
2018 NH4	?	2.092	0.5 13	0	0	6.39 1	0.0421 57	AM O
2018 NG4	?	2.324	0.5 42	0	0	11.5 48	0.0518 77	AM O
2018 NF4	?	2.059	0.5 40	0	0	6.79 4	0.0239 96	APO
2018 NE4	?	1.764	0.3 23	0	0	7.21 9	0.2674 48	AM O
2018 ND4	?	2.137	0.5 68	0	0	6.30 2	0.0194 14	APO
2018 NC4	?	3.329	0.5 99	0	0	8.30 5	0.3351 70	OM B
2018 NB4	?	2.089	0.4 57	0	0	7.30 9	0.1549 11	AM O
2018 NA4	?	3.253	0.5 70	0	0	11.0 56	0.4038 84	OM B
2018 NZ3	?	2.358	0.4 41	0	0	7.45 3	0.3274 78	MC A
2018 NY3	?	3.231	0.1 51	0	0	13.2 62	1.7292 30	OM B
2018 NX3	?	2.216	0.3 35	0	0	7.56 4	0.4659 49	MC A
2018 NW3	?	1.950	0.3 04	0	0	7.00 5	0.3525 60	MC A
2018 NV3	?	2.359	0.5 26	0	0	6.81 4	0.1033 43	AM O
2018 NU3	?	2.699	0.5 96	0	0	7.33 8	0.1040 90	AM O
2018 NT3	?	1.188	0.1 15	0	0	8.00 1	0.0871 93	AM O

2018 NS3	?	1.518	0.2 92	0	0	8.42 6	0.2472 05	AM O
2018 NR3	?	3.234	0.6 72	0	0	7.20 3	0.0511 17	AM O
2018 NQ3	?	2.154	0.5 11	0	0	6.86 2	0.0373 18	AM O
2018 NP3	?	1.829	0.4 46	0	0	6.48 1	0.0983 75	APO
2018 NO3	?	2.652	0.5 47	0	0	8.48 5	0.1880 55	AM O
2018 NN3	?	2.098	0.5 82	0	0	8.66 1	0.1052 22	APO
2018 NM3	?	2.115	0.4 13	0	0	6.86 7	0.2289 22	AM O
2018 NL3	?	2.648	0.5 92	0	0	6.81 6	0.0790 87	AM O
2018 NK3	?	3.312	0.4 80	0	0	12.5 18	0.7319 23	OM B
2018 NJ3	?	1.947	0.1 65	0	0	11.9 99	0.6735 64	MC A
2018 NH3	?	1.930	0.1 04	0	0	9.64 3	0.7770 10	IMB
2018 NG3	?	1.850	0.0 54	0	0	10.4 22	0.7645 87	IMB
2018 NF3	?	1.913	0.1 13	0	0	9.60 9	0.8030 17	IMB
2018 NE3	?	2.419	0.3 73	0	0	11.0 71	0.5009 64	MC A
2018 ND3	?	2.291	0.2 68	0	0	10.9 30	0.6825 57	MB A
2018 NC3	?	2.353	0.3 33	0	0	10.2 94	0.7446 43	MC A
2018 NB3	?	2.759	0.4 24	0	0	9.16 9	0.6560 51	MC A
2018 NA3	?	2.638	0.3 78	0	0	8.50 1	0.6327 20	MC A

2018 NY2	?	2.474	0.4 23	0	0	8.17 9	0.4783 68	MC A
2018 NX2	?	2.417	0.4 54	0	0	7.45 8	0.3065 79	MC A
2018 NW2	?	2.641	0.4 74	0	0	11.6 99	0.4883 30	MC A
2018 NV2	?	1.126	0.4 93	0	0	8.24 0	0.0150 04	APO
2018 NU2	?	2.608	0.5 61	0	0	6.86 2	0.1306 00	AM O
2018 NT2	?	1.145	0.2 04	0	0	5.20 8	0.0278 83	APO
2018 NS2	?	1.927	0.0 93	0	0	9.80 0	0.8048 40	IMB
2018 NR2	?	1.883	0.1 12	0	0	11.7 52	0.7275 93	IMB
2018 NQ2	?	2.334	0.3 23	0	0	7.89 1	0.5772 82	MC A
2018 NP2	?	2.692	0.3 76	0	0	8.56 6	0.6882 97	MB A
2018 NO2	?	2.359	0.4 24	0	0	7.47 9	0.3531 25	MC A
2018 NN2	?	2.614	0.3 41	0	0	9.17 1	0.7708 08	MB A
2018 NM2	?	2.741	0.2 21	0	0	12.8 70	1.2443 90	MB A
2018 NL2	?	1.875	0.1 39	0	0	10.4 73	0.6864 29	MC A
2018 NK2	?	2.581	0.3 40	0	0	8.80 8	0.7316 14	MB A
2018 NJ2	?	1.558	0.2 36	0	0	5.77 4	0.1746 37	AM O
2018 NH2	?	1.741	0.4 02	0	0	6.24 7	0.0505 31	AM O
2018 NG2	?	1.508	0.1 46	0	0	8.50 6	0.2820 27	AM O

2018 NF2	?	1.030	0.1 39	0	0	10.8 58	0.0942 35	APO
2018 NE2	?	2.641	0.5 48	0	0	11.0 22	0.3214 55	AM O
2018 ND2	?	3.242	0.4 43	0	0	15.1 25	1.1430 10	OM B
2018 NC2	?	2.426	0.3 84	0	0	7.87 7	0.5036 73	MC A
2018 NB2	?	2.221	0.4 10	0	0	7.08 5	0.3047 61	MC A
2018 NA2	?	2.980	0.4 16	0	0	8.55 6	0.7290 56	MB A
2018 NZ1	?	1.879	0.0 87	0	0	10.5 04	0.7504 82	IMB
2018 NY1	?	1.871	0.1 56	0	0	10.7 34	0.6554 17	MC A
2018 NX1	?	2.599	0.4 71	0	0	7.78 9	0.3739 06	MC A
2018 NW1	?	1.937	0.4 65	0	0	6.66 0	0.0211 49	AM O
2018 NV1	?	2.175	0.5 08	0	0	6.70 9	0.0545 71	AM O
2018 NU1	?	2.246	0.4 91	0	0	7.25 4	0.1293 07	AM O
2018 NT1	?	2.149	0.4 86	0	0	6.78 9	0.1195 42	AM O
2018 NS1	?	2.160	0.4 75	0	0	6.64 3	0.1502 64	AM O
2018 NR1	?	0.878	0.2 45	0	0	6.68 3	0.0214 99	ATE
2018 NQ1	?	1.293	0.2 64	0	0	4.87 7	0.0310 40	APO
2018 NP1	?	1.023	0.2 31	0	0	11.4 46	0.1964 13	APO
2018 NO1	?	2.962	0.5 82	0	0	8.14 5	0.2301 67	AM O

2018 NN1	?	1.858	0.4 66	0	0	6.48 3	0.0130 68	APO
2018 NM1	?	1.877	0.1 81	0	0	10.6 84	0.6126 29	MC A
2018 NL1	?	3.021	0.4 72	0	0	12.5 51	0.6016 98	MC A
2018 NK1	?	1.695	0.1 17	0	0	13.4 96	0.6420 58	MC A
2018 NJ1	?	2.638	0.5 28	0	0	7.68 6	0.2330 39	AM O
2018 NH1	?	2.598	0.3 60	0	0	9.45 6	0.6964 58	MC A
2018 NG1	?	1.197	0.3 62	0	0	11.9 35	0.0624 23	APO
2018 NF1	?	1.058	0.1 59	0	0	8.25 7	0.0193 15	APO
2018 NE1	?	1.940	0.5 72	0	0	6.54 8	0.0100 16	APO
2018 ND1	?	2.484	0.6 54	0	0	21.1 14	0.1458 80	APO
2018 NA1	?	2.353	0.4 08	0	0	8.74 6	0.3841 56	MC A
2018 NZ	?	1.942	0.1 16	0	0	9.62 4	0.7313 07	IMB
2018 NY	?	2.105	0.5 08	0	0	6.28 9	0.0203 72	AM O
2018 NX	?	0.898	0.1 46	0	0	5.83 0	0.0004 28	ATE
2018 NW	?	1.162	0.3 40	0	0	13.6 50	0.0003 03	APO
2018 NV	?	0.926	0.1 60	0	0	6.98 5	0.0194 93	ATE
2018 NU	?	1.747	0.4 25	0	0	6.38 6	0.0032 75	APO
2018 NT	?	2.616	0.2 28	0	0	13.4 42	1.0843 70	MB A

2018 NS	?	1.344	0.3 33	0	0	6.08 7	0.0077 65	APO
2018 NR	?	1.802	0.4 31	0	0	7.46 3	0.2324 06	AM O
2018 NQ	?	1.722	0.7 06	0	0	10.6 23	0.0252 24	APO
2018 NP	?	3.129	0.1 76	0	0	13.3 97	1.5626 00	MB A
2018 NO	?	2.388	0.2 54	0	0	8.86 8	0.7863 99	MB A
2018 NN	?	1.858	0.3 14	0	0	6.99 1	0.2602 98	AM O
2018 NM	?	1.520	0.3 60	0	0	4.91 6	0.0023 01	APO
2018 NL	?	1.826	0.4 49	0	0	5.94 8	0.0002 92	APO
2018 NK	?	2.501	0.3 35	0	0	12.1 19	0.9000 56	MC A
2018 NJ	?	1.540	0.3 45	0	0	5.01 8	0.0010 77	APO
2018 NH	?	1.889	0.5 20	0	0	11.9 18	0.0007 81	APO
2018 NG	?	2.503	0.3 99	0	0	7.92 1	0.5043 03	MC A
2018 NF	?	2.576	0.4 26	0	0	13.5 46	0.5044 29	MC A
2018 NE	?	0.971	0.1 94	0	0	6.23 7	0.0428 49	ATE
2018 ND	?	2.068	0.8 60	0	0	13.0 29	0.2845 55	APO
2018 NC	?	2.059	0.5 99	0	0	6.91 3	0.0368 01	APO (PH A)
2018 NB	?	2.391	0.5 54	0	0	6.38 9	0.0513 23	AM O
2018 NA	?	1.560	0.4 84	0	0	6.19 5	0.0385 09	APO

2018 MT8	?	2.225	0.3 07	0	0	7.71 9	0.5396 61	MC A
2018 MS8	?	1.203	0.6 08	0	0	13.0 21	0.3165 12	APO
2018 MR8	?	0.972	0.1 78	0	0	11.5 82	0.1043 89	ATE
2018 MQ8	?	2.185	0.3 12	0	0	7.69 1	0.5050 49	MC A
2018 MP8	?	365.9 50	0.9 90	0	0	20.0 40	2.8129 90	TN O
2018 MO8	?	15.06 8	0.6 69	0	0	17.6 67	4.3733 50	CEN
2018 MN8	?	0.847	0.6 88	0	0	15.3 77	0.0501 48	ATE
2018 MM8	?	2.675	0.5 69	0	0	8.83 2	0.1781 18	AM O
2018 ML8	?	2.133	0.4 73	0	0	6.70 2	0.1064 41	AM O
2018 MK8	?	2.706	0.8 01	0	0	10.9 88	0.1134 87	APO
2018 MJ8	?	3.060	0.5 49	0	0	10.0 04	0.5080 62	MC A
2018 MG8	?	2.312	0.2 40	0	0	10.8 56	0.7914 01	MB A
2018 ME8	?	2.639	0.2 16	0	0	9.83 2	1.0559 60	MB A
2018 MD8	?	3.151	0.1 22	0	0	10.7 81	1.7587 50	MB A
2018 MC8	?	2.454	0.1 89	0	0	9.03 1	0.9864 31	MB A
2018 MB8	?	2.691	0.2 38	0	0	9.71 5	1.0633 40	MB A
2018 MA8	?	2.441	0.1 38	0	0	9.54 1	1.0996 90	MB A
2018 MY7	?	2.543	0.0 26	0	0	10.6 73	1.4969 10	MB A



2018 MS7	?	3.090	0.1 32	0	0	10.8 60	1.7008 70	MB A
2018 MR7	?	2.628	0.2 05	0	0	9.35 2	1.0874 30	MB A
2018 ML7	?	2.624	0.1 70	0	0	10.0 61	1.1794 50	MB A
2018 MK7	?	2.030	0.1 40	0	0	13.8 36	0.7986 42	MB A
2018 MJ7	?	1.095	0.4 16	0	0	7.23 4	0.0714 02	APO
2018 MH7	?	0.893	0.1 80	0	0	6.35 2	0.0166 66	ATE
2018 MG7	?	0.912	0.3 27	0	0	11.3 63	0.0222 56	ATE (PH A)
2018 MF7	?	2.458	0.1 73	0	0	12.2 30	1.1495 70	MB A
2018 ME7	?	2.161	0.4 39	0	0	6.85 8	0.2328 89	AM O
2018 MD7	?	0.947	0.1 10	0	0	5.90 6	0.0022 74	ATE
2018 MC7	?	1.413	0.2 81	0	0	4.84 4	0.0000 81	APO
2018 MB7	?	1.291	0.3 01	0	0	6.95 8	0.0059 03	APO
2018 MA7	?	2.864	0.4 74	0	0	11.0 98	0.4923 46	MC A
2018 MZ6	?	2.885	0.4 40	0	0	11.3 75	0.8546 03	MC A
2018 MY6	?	0.905	0.1 54	0	0	21.5 95	0.0260 55	ATE (PH A)
2018 MX6	?	1.973	0.4 79	0	0	5.85 2	0.0132 85	AM O
2018 MW6	?	3.393	0.7 73	0	0	8.36 8	0.0034 38	APO (PH A)

2018 MV6	?	2.631	0.7 31	0	0	7.78 8	0.0202 90	APO
2018 MU6	?	2.216	0.5 84	0	0	6.55 4	0.0429 76	APO
2018 MT6	?	1.839	0.4 37	0	0	5.53 5	0.0245 54	AM O
2018 MS6	?	2.114	0.3 89	0	0	7.14 9	0.2782 62	AM O
2018 MR6	?	2.190	0.4 41	0	0	7.06 4	0.2135 82	AM O
2018 MQ6	?	1.756	0.3 68	0	0	6.57 1	0.1211 74	AM O
2018 MP6	?	2.213	0.2 67	0	0	8.00 4	0.6077 81	MC A
2018 MO6	?	2.270	0.4 23	0	0	8.42 2	0.3194 21	MC A
2018 MN6	?	2.223	0.3 21	0	0	7.88 6	0.5061 31	MC A
2018 MJ6	?	3.210	0.1 28	0	0	10.7 07	1.7905 80	OM B
2018 MH6	?	2.802	0.2 30	0	0	9.62 8	1.1637 50	MB A
2018 MF6	?	2.730	0.0 95	0	0	10.0 01	1.4767 40	MB A
2018 MD6	?	1.839	0.0 60	0	0	9.67 8	0.7868 57	IMB
2018 MB6	?	2.728	0.0 91	0	0	10.5 52	1.5126 00	MB A
2018 MA6	?	3.241	0.1 41	0	0	11.9 82	1.8284 60	OM B
2018 MZ5	?	2.595	0.1 19	0	0	9.77 8	1.2843 10	MB A
2018 MY5	?	2.359	0.0 45	0	0	9.39 0	1.2613 00	MB A
2018 MX5	?	2.401	0.1 46	0	0	10.1 67	1.0491 50	MB A

2018 MU5	?	3.155	0.1 77	0	0	10.6 72	1.6059 10	MB A
2018 MT5	?	2.617	0.0 77	0	0	9.82 6	1.4044 50	MB A
2018 MR5	?	2.070	0.7 20	0	0	8.17 7	0.0437 42	APO (PH A)
2018 MQ5	?	1.077	0.0 23	0	0	5.25 6	0.0504 64	AM O
2018 MP5	?	1.295	0.3 29	0	0	8.12 0	0.0936 32	APO
2018 MO5	?	1.775	0.3 24	0	0	7.85 4	0.1892 33	AM O
2018 MN5	?	2.618	0.3 55	0	0	9.68 9	0.7300 76	MB A
2018 MM5	?	2.473	0.4 18	0	0	8.01 9	0.4632 11	MC A
2018 ML5	?	3.010	0.4 57	0	0	8.44 0	0.6281 48	MC A
2018 MK5	?	2.263	0.5 51	0	0	7.50 0	0.2261 73	APO
2018 MJ5	?	2.045	0.4 98	0	0	6.24 7	0.0298 19	AM O
2018 MH5	?	2.265	0.6 24	0	0	6.89 1	0.0418 59	APO
2018 MG5	?	2.240	0.5 25	0	0	6.65 6	0.0660 34	AM O
2018 MF5	?	1.497	0.2 85	0	0	9.10 3	0.0695 61	AM O
2018 ME5	?	1.406	0.3 04	0	0	5.08 0	0.0617 95	APO
2018 MC5	?	1.373	0.2 65	0	0	4.43 5	0.0010 10	APO
2018 MB5	?	2.099	0.4 43	0	0	6.61 3	0.1756 66	AM O
2018 MA5	?	0.948	0.1 78	0	0	5.45 7	0.0367 82	ATE

2018 MZ4	?	1.209	0.3 01	0	0	5.95 4	0.0012 43	APO
2018 MY4	?	1.535	0.2 89	0	0	9.85 1	0.1694 61	AM O
2018 MX4	?	2.318	0.5 60	0	0	6.15 5	0.0034 31	AM O
2018 MW4	?	2.779	0.5 53	0	0	10.1 42	0.4061 66	AM O
2018 MV4	?	1.251	0.2 43	0	0	9.55 2	0.0284 24	APO (PH A)
2018 MU4	?	1.624	0.5 92	0	0	7.49 1	0.0481 97	APO
2018 MR4	?	2.629	0.2 30	0	0	9.19 6	1.0342 50	MB A
2018 MQ4	?	2.485	0.0 23	0	0	9.86 7	1.4131 30	MB A
2018 MO4	?	2.334	0.2 18	0	0	8.89 0	0.8102 23	MB A
2018 ML4	?	2.267	0.1 91	0	0	8.47 3	0.8334 48	MB A
2018 MK4	?	2.159	0.0 99	0	0	8.62 6	0.9324 21	MB A
2018 MJ4	?	1.886	0.0 72	0	0	10.5 07	0.7733 85	IMB
2018 MH4	?	2.654	0.3 71	0	0	12.0 37	0.8025 89	MB A
2018 MG4	?	1.804	0.0 51	0	0	10.2 94	0.7545 08	IMB
2018 MF4	?	1.881	0.1 02	0	0	11.2 77	0.7945 05	IMB
2018 ME4	?	3.227	0.2 63	0	0	10.4 82	1.3883 70	OM B
2018 MD4	?	3.233	0.0 93	0	0	11.1 26	1.9475 30	OM B
2018 MG3	?	2.480	0.1 76	0	0	9.40 3	1.0596 10	MB A

2018 ME3	?	2.372	0.1 76	0	0	8.75 7	0.9412 94	MB A
2018 MZ2	?	2.933	0.2 77	0	0	10.0 25	1.1456 60	MB A
2018 MX2	?	2.901	0.0 64	0	0	11.0 27	1.7192 10	MB A
2018 MV2	?	3.245	0.0 68	0	0	11.5 06	2.0203 80	OM B
2018 MU2	?	2.526	0.1 63	0	0	10.0 29	1.1274 30	MB A
2018 ML2	?	1.910	0.0 81	0	0	10.0 07	0.8412 97	IMB
2018 MK2	?	3.049	0.0 72	0	0	11.0 54	1.8405 80	MB A
2018 MH2	?	2.954	0.0 66	0	0	10.9 04	1.7553 10	MB A
2018 MG2	?	3.148	0.1 70	0	0	13.1 03	1.7657 50	MB A
2018 MF2	?	3.396	0.4 17	0	0	9.61 8	1.0282 70	OM B

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- Sun
  - Earth
  - Pause
  - Full View

**Asteroids counted without those with a value of 0 \$US = 988**

**Value(\$)** = 71 988 450 020 713 330 000 000.00 \$US

**Average(\$)** = 72 789 130 455 726 300 000.00 \$US

**Min Value(\$)** = 1 300 000 \$US

**Max Value(\$)** = 100 000 000 000 000 000 000 \$US

**EstProfit(\$)** = 63 015 031 263 705 500 000 000.00 \$US

**Average(\$)** = 63 845 016 477 918 400 00.00 \$US

**Min Value** = 1 070 000.00 \$US

**Max Value(\$)** = 100 000 000 000 000 000 000 \$US