Part V: VIM (‘Variability-Induced Mover’) Solutions

Number	Ref. Mag.	Elements					Derived Quantities				Notes
HIP	Hp_{ref}	$D_{\alpha*}$	D_{δ}	$\sigma_{D_{\alpha*}}$	$\sigma_{D_{\delta}}$	F_D	θ_C	σ_{θ}	ρ_{min}	d_{var}	N
	mag	mas	mas	mas	mas		deg	deg	mas	mas	
1	2	3	4	5	6	7	8	9	10	11	12
703	10.70	−4.19	7.51	2.46	2.05	4.40	330.82	16.84	40.0	34.7	P
781	9.90	1.76	5.32	2.13	1.70	3.25	18.32	21.48	37.4	35.1	P
1236	7.90	−0.10	0.69	0.50	0.35	2.66	351.51	43.79	9.1	8.9	
1593	7.60	−18.02	14.20	5.79	6.13	4.35	308.23	16.45	30.2	11.3	
1834	8.10	1.77	−0.80	0.72	0.98	2.48	114.41	26.36	7.1	6.5	P
1901	10.70	4.40	−11.84	5.12	5.79	2.44	159.62	25.38	23.4	22.3	P
2180	7.70	−16.74	0.37	6.78	6.23	2.49	271.27	21.37	22.5	9.9	
2215	6.80	−42.07	−42.12	19.09	13.09	3.31	224.97	11.83	69.6	15.3	
2546	9.70	0.33	2.50	2.07	1.08	2.44	7.53	45.64	18.3	17.6	P
2880	8.80	−8.76	−21.58	11.80	8.04	2.81	202.09	28.15	28.3	8.3	
4284	9.60	−0.44	3.58	1.96	1.40	2.92	353.00	29.53	9.9	8.4	P
4406	9.30	−16.71	38.89	22.74	18.41	2.24	336.76	29.92	49.1	10.1	
5559	7.10	23.52	3.59	8.00	6.85	2.96	81.33	15.73	27.8	8.2	P
6759	6.40	4.66	−3.47	2.05	1.74	5.47	126.64	23.79	12.4	8.7	P
6952	6.30	−16.61	−22.57	11.31	13.04	2.58	216.35	27.00	29.6	5.4	
8025	8.70	13.99	−35.34	11.99	15.16	2.40	158.41	16.61	44.9	10.5	
8034	6.80	−36.46	1.09	16.98	13.67	2.17	271.72	21.55	41.5	7.3	
9767	10.00	−1.21	−3.58	1.61	1.78	2.32	198.60	26.27	12.3	11.2	
10904	8.30	−39.82	1.30	19.08	24.27	2.24	271.87	35.20	45.7	10.4	
11093	9.70	5.24	3.31	1.89	1.51	4.18	57.77	17.08	20.3	17.8	P
11174	6.40	22.09	35.26	18.59	16.43	2.45	32.07	24.80	44.4	4.3	
11284	8.20	51.92	−21.43	21.97	26.48	2.44	112.43	25.66	59.9	12.8	
11293	6.30	−7.35	−55.61	13.47	18.95	3.11	187.53	12.58	63.2	13.0	
12071	9.30	26.21	−2.64	5.14	3.20	5.10	95.74	6.87	61.5	37.7	
12193	7.00	0.87	0.47	0.44	0.27	2.29	61.79	14.81	19.9	19.7	P
12781	10.60	152.90	102.66	109.28	49.10	2.30	56.12	20.35	189.3	28.9	
13502	7.40	1.27	0.04	0.31	0.33	4.12	88.13	14.95	13.3	13.1	P
13937	8.80	122.01	−61.49	57.76	30.32	2.18	116.75	6.99	183.5	49.3	P
14042	10.00	3.21	−0.94	1.07	1.00	3.00	106.26	15.69	19.4	18.8	P
14229	7.20	−0.37	−10.75	3.26	4.73	2.27	181.96	17.34	14.0	6.1	
15145	8.70	−14.27	7.50	7.23	5.60	2.33	297.73	20.81	25.3	13.1	
15474	3.70	−15.29	−52.76	21.05	19.67	3.62	196.16	24.49	66.0	11.6	P
15653	9.30	9.23	−7.60	6.06	6.24	2.90	129.48	36.66	26.9	18.1	
15926	8.70	−19.02	6.43	11.75	6.76	2.43	288.67	24.82	26.2	10.1	
16647	10.40	0.96	10.40	5.67	3.64	4.10	5.27	29.65	21.8	20.5	P
18165	8.60	−14.11	46.01	25.40	19.66	3.71	342.95	33.91	54.7	14.7	P
18931	7.20	−41.66	−4.64	19.97	16.46	2.24	263.65	23.27	43.5	4.2	P
19762	10.90	102.48	−54.67	20.11	14.37	9.08	118.08	9.54	119.4	57.9	
19931	9.70	−10.48	−14.32	11.93	5.42	4.12	216.20	38.31	21.7	14.0	P
20387	10.50	−8.21	8.69	7.12	5.16	3.19	316.61	37.59	19.5	13.6	
20777	12.10	−39.66	29.97	19.00	14.48	2.79	307.08	17.70	80.2	48.9	
20990	11.20	−76.16	−21.98	16.85	6.45	5.59	253.90	5.53	204.7	149.3	
21479	4.70	4.34	−9.78	3.93	3.51	2.98	156.06	20.58	13.6	7.0	P
21766	10.60	−3.41	5.77	1.34	1.75	3.50	329.42	9.23	24.6	24.1	P
22127	9.80	0.76	−1.81	0.61	0.76	2.55	157.21	17.47	13.5	13.2	P
22256	10.10	4.46	−0.56	1.19	0.87	3.99	97.11	11.49	59.3	58.0	P
22552	6.60	9.03	−3.35	3.89	4.38	2.79	110.32	27.95	13.3	5.6	P
22667	4.70	−137.52	−49.58	42.10	29.28	3.27	250.17	9.30	154.5	13.6	P
22670	8.60	−24.41	57.46	20.30	15.64	3.69	336.98	16.78	69.7	15.9	P
23200	10.20	−87.54	1.79	40.01	27.31	2.19	271.17	17.88	93.4	17.1	P
23520	8.50	35.67	−19.38	14.44	9.51	3.02	118.51	14.34	49.3	14.9	P
23602	10.70	−11.90	−2.66	5.36	4.12	2.23	257.42	18.42	21.8	14.6	
23636	9.70	−2.34	−8.41	2.89	1.88	4.47	195.58	18.18	22.3	21.2	P
23680	5.80	−21.23	−0.10	9.95	4.86	2.22	269.72	13.09	30.4	14.0	P
23727	10.30	7.30	−3.21	1.96	1.22	4.46	113.77	9.61	43.0	36.1	
23743	6.20	−56.88	−8.62	18.73	19.57	3.04	261.39	19.11	63.7	6.7	
24281	9.30	−26.41	−7.48	9.63	6.29	2.74	254.19	11.26	33.3	14.8	
25412	9.90	1.50	−1.99	1.01	1.13	2.60	142.96	26.63	13.0	12.7	P
26069	3.90	−5.52	−3.32	2.62	2.61	2.37	239.00	22.36	8.8	4.1	
26451	2.90	−35.36	−38.60	27.51	18.10	2.22	222.49	21.69	56.9	6.4	P
26714	7.60	13.93	−47.93	24.24	22.38	2.26	163.79	28.11	55.2	8.9	P
27181	6.70	−19.82	23.17	31.65	11.79	2.28	319.46	50.73	35.7	6.3	
27286	10.30	−0.97	3.79	1.36	1.35	2.83	345.66	18.07	25.4	24.5	P
27398	8.30	−121.94	−84.85	51.05	41.21	2.40	235.17	5.72	157.0	39.0	P
27400	8.30	−17.50	−11.65	7.86	9.50	2.60	236.35	25.12	26.2	7.4	P
28166	7.80	−10.94	−4.19	6.70	2.80	2.33	249.04	18.13	13.3	7.5	P
28625	10.20	9.56	−11.69	8.35	4.02	2.91	140.72	23.10	21.4	12.8	
28945	10.00	20.03	−13.81	18.13	6.47	2.36	124.58	26.78	27.7	12.2	
30449	10.20	1.06	7.71	6.25	2.44	3.21	7.81	45.12	13.9	11.2	
30541	6.30	9.26	−4.24	3.76	2.68	2.64	114.62	14.17	15.1	8.6	
30651	5.60	46.03	22.59	20.32	11.25	2.27	63.86	5.57	68.2	17.4	
31108	10.60	89.40	−51.84	37.98	22.17	3.89	120.11	16.90	114.4	30.0	P
31484	7.80	21.14	12.16	9.91	5.92	2.72	60.09	15.12	36.6	16.1	
32115	9.60	1.59	−1.58	0.84	1.04	2.19	134.88	21.24	11.7	11.1	
32900	10.30	−65.77	−100.02	87.56	78.35	2.51	213.33	15.67	169.9	57.6	
33059	8.20	−11.90	19.59	14.89	8.18	2.72	328.72	35.45	25.6	6.5	
33643	6.70	−3.40	−26.96	24.44	11.29	2.39	187.20	51.14	29.0	3.3	P
33953	8.10	−53.77	−52.51	21.42	17.07	3.14	225.68	8.69	95.5	19.6	
34042	9.80	44.77	−45.24	26.71	14.87	3.62	135.30	20.27	80.1	30.0	P
34356	7.50	−0.75	−0.58	1.01	0.19	3.05	232.41	38.11	17.9	17.5	P
34360	5.70	10.27	−13.07	5.41	6.45	2.80	141.84	20.27	20.0	5.9	
34646	7.50	−2.96	14.64	1.74	3.51	5.98	348.58	8.18	35.8	23.1	
35045	7.60	1.27	−9.20	5.52	4.21	2.20	172.14	33.97	12.6	5.4	
35363	4.70	20.10	63.73	26.26	30.82	2.21	17.51	22.93	67.4	11.3	
36288	6.90	39.26	5.83	11.38	4.02	3.69	81.56	6.15	50.9	28.3	
36314	10.60	12.39	−12.32	9.96	4.06	3.04	134.84	21.66	27.4	26.0	P
36669	9.20	−0.07	−7.39	0.70	1.51	5.64	180.57	5.52	104.0	100.8	P
36675	9.80	−5.82	−4.58	6.02	1.97	2.89	231.77	34.25	15.3	15.0	P
37120	10.70	−11.52	−83.18	10.76	15.02	5.55	187.88	7.22	151.4	74.1	
37506	10.80	−21.61	−17.41	9.09	11.20	2.78	231.15	21.06	34.6	11.3	
38063	10.20	1.63	−15.27	4.03	5.45	3.12	173.91	15.79	23.5	17.2	
38502	7.50	−33.42	−23.51	16.09	10.81	2.57	234.87	14.22	48.7	10.0	P
39877	8.90	−14.73	−4.51	7.85	4.67	2.25	252.98	19.72	18.3	9.3	P
40060	9.00	−7.34	−8.82	4.64	4.82	2.32	219.78	22.43	12.7	6.4	P
40534	6.50	−0.65	−0.30	0.47	0.18	3.02	245.64	24.59	17.4	17.0	P
40546	11.30	−18.33	11.47	22.73	21.04	3.17	302.04	77.47	114.5	104.0	P
41028	8.10	40.87	19.54	18.20	9.98	2.37	64.44	9.51	56.5	21.5	P
41058	9.80	6.59	−7.11	4.86	1.78	4.58	137.16	16.65	24.6	21.5	P
41824	11.60	−63.23	−6.84	34.41	31.93	4.37	263.82	31.59	73.7	48.6	
42831	8.50	−0.26	−6.44	2.34	2.58	2.50	182.33	20.73	9.4	6.4	

Number	Ref. Mag.	Elements					Derived Quantities				Notes
HIP	Hp_{ref}	$D_{\alpha*}$	D_{δ}	$\sigma_{D_{\alpha*}}$	$\sigma_{D_{\delta}}$	F_D	θ_C	σ_θ	ρ_{min}	d_{var}	N
	mag	mas	mas	mas	mas		deg	deg	mas	mas	
1	2	3	4	5	6	7	8	9	10	11	12
42975	8.90	1.81	1.65	1.22	1.59	2.61	47.66	40.93	7.1	6.4	P
43063	8.50	7.34	16.55	14.04	9.16	2.50	23.92	47.84	21.8	6.7	
43575	6.30	−89.72	−43.82	58.66	33.39	2.38	243.97	25.69	101.7	8.9	P
43653	9.70	2.91	−0.49	1.24	0.95	2.38	99.64	17.00	26.0	25.2	
44368	7.00	13.50	65.99	18.85	26.01	2.65	11.56	16.43	72.5	8.8	
44632	9.50	127.50	−2.14	55.27	25.16	4.14	90.96	11.65	156.2	33.3	
44995	9.80	−4.87	5.15	3.67	2.31	2.26	316.58	15.31	22.2	20.7	P
45824	6.60	15.80	−10.00	7.21	5.59	2.81	122.34	18.57	25.3	8.8	P
45915	5.80	−27.06	−6.77	12.12	7.53	2.37	255.95	15.87	32.3	9.5	
46806	7.50	1.20	8.40	0.93	1.17	7.20	8.14	6.20	25.4	25.0	P
47066	10.10	−5.42	−6.73	5.07	1.97	3.82	218.80	28.77	17.4	16.7	P
47630	9.80	−27.53	12.88	9.20	5.29	3.18	295.08	8.29	35.2	23.7	
47886	9.10	−3.49	5.02	1.94	1.61	3.27	325.16	15.18	30.6	29.0	P
48036	6.90	−3.15	−1.98	2.53	1.34	2.99	237.88	34.12	8.2	7.9	P
48122	10.50	18.53	0.64	6.93	6.58	2.70	88.02	20.41	23.6	10.4	P
48662	6.80	−8.89	−2.15	3.74	3.30	2.38	256.39	19.65	11.6	5.4	P
51262	8.80	8.99	−8.60	4.02	4.17	2.91	133.73	18.03	18.3	9.5	
52380	10.50	−25.20	−10.50	10.26	8.15	2.77	247.39	17.79	32.8	13.9	
52599	7.00	−2.50	−4.24	2.34	3.21	4.39	210.54	40.80	15.7	11.1	
52988	10.60	0.41	10.14	2.55	2.85	3.61	2.30	14.51	61.7	58.7	
53085	7.00	4.35	−1.40	1.31	0.96	3.32	107.85	10.40	26.5	24.2	
53809	7.90	−15.52	−19.06	16.03	12.46	2.58	219.16	41.63	27.2	7.9	
54891	9.80	−5.88	11.26	5.84	6.28	2.15	332.40	27.87	18.0	8.9	
54951	4.60	138.76	−93.49	52.10	43.42	3.21	123.97	14.74	173.6	12.3	
56898	9.90	−24.57	43.28	3.46	6.61	8.46	330.42	4.25	99.3	69.9	P
56991	9.00	−7.44	−6.65	4.29	5.11	2.49	228.19	30.40	12.7	7.4	
57009	10.40	−3.22	−4.15	1.35	2.08	3.66	217.88	20.50	29.1	27.3	
57260	9.10	−7.25	−4.78	3.45	3.28	2.42	236.61	20.63	12.4	6.4	
57642	10.10	0.70	6.49	2.01	2.68	2.85	6.12	18.72	16.7	16.2	P
57917	8.40	−15.58	17.87	8.45	7.49	2.46	318.91	13.12	29.0	11.2	P
59196	2.50	68.74	27.65	25.29	24.97	3.00	68.09	19.76	79.0	10.2	P
59575	11.10	12.06	23.84	7.07	9.89	2.54	26.84	12.99	40.8	21.3	
59935	8.50	22.41	9.44	8.37	3.88	2.88	67.15	7.38	44.7	22.5	P
59943	7.30	6.76	23.16	6.44	8.40	2.77	16.26	14.03	33.3	10.9	
60180	7.20	−1.87	7.84	2.39	2.24	3.54	346.56	16.70	13.3	7.3	P
60455	7.10	−4.93	−3.37	2.64	2.37	2.26	235.64	22.63	7.3	3.9	
61667	8.20	1.66	0.16	0.80	0.63	2.32	84.34	22.63	9.4	9.0	P
62071	10.20	−3.98	2.77	2.82	1.66	2.34	304.87	26.53	39.9	37.6	P
62401	11.30	9.26	4.41	5.97	3.90	2.62	64.51	29.28	18.3	15.6	P
62712	10.10	−2.85	−0.39	1.30	1.14	3.09	262.18	24.88	27.7	27.3	P
63152	6.40	−3.98	6.74	3.10	3.57	2.20	329.42	22.76	13.9	7.5	
63950	5.40	−3.48	−16.16	8.54	6.75	2.79	192.16	31.15	20.2	5.0	
64768	7.00	21.86	−14.15	10.98	7.21	2.26	122.92	12.85	31.6	10.5	
64778	6.80	−4.19	6.19	5.08	3.19	2.15	325.88	35.65	10.1	4.5	P
65242	7.70	−16.92	0.07	6.96	7.69	2.51	270.25	26.08	19.1	5.1	
65492	8.80	2.25	−20.20	5.91	7.84	2.87	173.65	15.34	42.1	22.7	
65531	9.70	16.17	3.28	4.01	2.26	4.49	78.54	8.51	46.3	31.4	
65835	5.80	−3.96	−0.96	2.15	0.88	2.57	256.38	15.81	13.7	12.7	P
66100	9.70	5.97	0.34	4.04	1.89	2.56	86.77	19.82	19.4	19.2	P
66466	7.90	1.81	3.48	1.83	1.87	2.29	27.51	28.74	7.4	5.4	P
67410	9.00	1.39	2.21	0.67	0.93	2.69	32.20	13.04	10.4	10.1	P
67419	6.10	7.70	−0.20	3.06	1.56	2.55	91.48	11.47	15.1	12.0	P
67439	8.90	1.07	8.45	4.42	2.73	3.12	7.23	29.66	17.5	12.0	
67626	10.60	−10.87	−1.61	3.19	2.31	3.52	261.60	12.29	90.6	88.8	P
67744	7.10	−94.95	−1.81	30.39	11.12	3.15	268.91	6.65	113.1	22.4	
68815	5.10	3.39	9.32	4.74	3.37	2.93	20.00	27.09	12.4	6.3	
68837	9.60	41.63	1.90	13.21	15.76	3.21	87.39	21.47	47.9	11.2	P
70885	8.00	−6.94	2.69	2.34	4.07	3.55	291.22	32.32	12.6	8.0	
70969	7.60	−12.20	−11.21	8.91	5.65	2.54	227.42	26.54	20.7	8.4	
71380	9.30	3.20	8.69	6.57	4.96	2.26	20.23	43.99	15.4	6.9	
71802	7.50	−9.08	14.93	5.21	5.26	2.85	328.69	12.08	29.8	15.1	
75143	8.20	−1.09	−1.18	0.25	0.38	5.22	222.74	10.77	19.6	19.3	P
75393	9.00	−5.03	−2.33	2.80	1.88	2.19	245.15	21.55	13.5	12.5	P
75727	7.00	−20.07	−44.74	36.14	16.91	2.87	204.17	40.91	51.8	7.5	P
76377	8.30	2.10	−0.41	0.68	0.98	3.41	101.04	24.17	22.9	22.3	P
76460	9.00	0.16	−22.13	8.54	9.97	2.68	179.58	22.22	27.9	10.1	
77023	7.90	−29.67	3.10	11.16	7.36	2.71	275.97	13.46	36.5	12.6	
77027	9.50	12.06	−2.09	4.15	2.97	3.32	99.83	11.77	28.3	23.8	P
77284	9.60	38.50	6.26	10.03	9.74	3.84	80.76	13.78	50.5	22.0	
77913	9.60	31.92	25.11	7.97	7.35	5.36	51.80	10.89	59.2	34.3	
78307	11.10	5.82	−5.54	3.63	3.09	2.21	133.56	21.65	45.4	41.7	
78976	10.20	−5.83	−3.82	3.32	2.57	2.97	236.77	27.30	20.5	19.5	P
79233	10.30	3.84	−5.99	1.10	1.63	4.51	147.33	8.81	30.0	29.4	P
80259	9.00	−11.70	−16.62	3.68	4.37	4.39	215.14	9.40	29.7	17.5	
80802	8.50	−6.51	4.61	2.44	2.54	3.45	305.30	19.05	14.1	9.4	P
81309	9.80	−1.17	3.56	1.80	1.28	2.79	341.83	25.39	37.8	35.2	
81506	9.00	−2.08	1.79	1.04	0.76	2.57	310.72	13.65	22.7	21.0	P
81747	7.90	−0.82	−6.29	3.55	2.17	2.91	187.46	31.80	14.0	9.2	
81835	8.00	6.73	4.76	3.18	3.14	2.39	54.77	19.76	12.8	7.9	P
82080	4.40	117.47	100.57	82.01	43.22	2.88	49.43	24.28	157.5	9.8	P
82514	2.90	9.04	56.92	16.09	13.19	4.42	9.03	16.12	67.4	11.3	
82912	6.70	0.92	0.45	0.61	0.48	2.49	63.99	33.82	9.8	9.4	P
83963	11.00	−24.38	−11.59	8.41	6.77	3.12	244.59	13.65	56.9	35.9	
84213	8.90	−6.43	5.22	3.35	3.05	2.75	309.05	23.20	14.1	9.3	P
84346	8.40	11.44	7.90	5.87	4.90	2.36	55.37	19.88	19.7	8.7	P
84670	8.20	−16.31	−21.60	9.11	16.98	2.19	217.06	26.49	34.1	8.2	
84833	5.10	52.53	3.49	24.35	18.27	2.28	86.20	20.34	56.7	6.9	
85386	11.30	−12.23	−5.08	7.47	4.41	2.34	247.45	24.19	17.9	11.3	P
85429	12.10	−73.96	31.51	16.00	13.72	4.95	293.08	9.58	164.9	147.8	P
85617	7.60	−11.38	28.10	8.35	5.23	5.51	337.96	15.01	34.5	12.9	P
86836	11.20	−5.34	11.13	3.64	3.87	3.69	334.38	18.88	57.5	54.7	
87063	7.80	−4.24	−27.29	16.33	11.46	2.52	188.83	34.49	32.3	7.1	P
87190	7.80	1.56	−10.05	4.93	3.73	2.88	171.16	28.36	15.5	7.6	
87345	8.10	40.18	−19.41	8.50	5.98	5.59	115.78	8.16	58.8	30.1	
87810	6.70	−22.17	7.64	10.16	9.08	2.21	289.02	20.61	27.4	8.3	
88242	10.30	10.66	4.25	5.28	5.12	2.15	68.28	25.22	16.4	8.9	
88397	9.70	18.36	32.64	13.78	14.61	2.45	29.35	19.94	45.4	14.0	
88838	8.50	12.55	1.08	3.88	2.46	3.35	85.10	11.45	29.1	20.9	P
89018	12.00	−40.70	17.80	16.86	12.66	2.86	293.63	17.71	95.4	78.2	
89568	9.00	0.86	1.54	0.56	0.48	3.38	29.10	16.44	25.2	24.4	P

Number	Ref. Mag.	Elements					Derived Quantities				Notes
HIP	Hp_{ref}	$D_{\alpha*}$	D_{δ}	$\sigma_{D_{\alpha*}}$	$\sigma_{D_{\delta}}$	F_D	θ_C	σ_θ	ρ_{min}	d_{var}	N
	mag	mas	mas	mas	mas		deg	deg	mas	mas	
1	2	3	4	5	6	7	8	9	10	11	12
89596	7.90	−10.40	−5.69	4.78	2.98	2.58	241.30	14.56	20.6	11.8	
89739	10.70	−24.85	−15.68	9.37	5.72	2.76	237.75	3.89	133.1	118.9	
89980	6.00	−29.98	21.58	15.66	8.89	2.71	305.74	15.02	44.4	8.8	
90019	9.00	−10.87	−14.84	56.00	22.56	2.45	216.21	100.31	56.1	39.4	
90474	11.50	8.64	−3.77	3.28	3.16	2.84	113.57	18.95	36.5	34.8	
90493	8.90	1.80	3.04	2.21	1.46	2.24	30.71	24.15	42.5	41.6	P
90697	7.70	−5.20	1.08	1.85	1.56	2.84	281.74	16.52	11.1	7.1	P
90709	9.40	2.84	−32.95	20.58	10.72	3.11	175.08	35.73	42.0	14.0	
90883	7.50	−5.86	8.86	3.40	4.91	2.85	326.53	23.50	15.8	7.0	
91015	12.20	16.59	−7.89	8.36	10.74	2.29	115.43	34.25	28.1	16.4	P
91785	9.80	−22.21	1.64	8.19	4.19	2.73	274.24	10.44	29.9	17.4	
93605	7.60	26.54	0.40	9.06	4.45	2.95	89.14	9.63	36.3	16.0	
93820	7.60	−1.28	1.55	1.06	0.84	2.93	320.32	33.14	7.6	7.2	P
93987	11.20	3.40	31.55	5.20	7.02	4.76	6.15	8.80	116.3	97.5	P
94162	7.90	1.12	9.64	4.70	4.24	2.28	6.62	27.18	14.8	7.1	
94224	7.20	8.02	25.22	15.48	10.50	2.40	17.65	31.49	33.0	10.0	
94605	10.90	−141.63	157.01	110.32	50.95	3.23	317.95	23.15	223.5	25.2	
94706	10.80	45.19	11.79	9.19	2.36	5.31	75.38	2.04	139.7	136.7	P
94738	9.00	2.30	0.96	1.04	0.76	2.22	67.28	12.80	20.9	20.6	
94822	6.90	0.80	5.79	2.94	2.41	2.53	7.84	27.42	12.8	7.4	
95032	11.60	−5.55	11.07	4.20	4.98	2.51	333.38	19.62	45.8	41.8	
95163	7.30	−2.35	−9.26	1.98	7.03	2.15	194.22	17.85	18.7	9.5	
95173	8.40	23.54	9.42	8.85	8.02	2.66	68.19	15.47	31.1	11.8	
95676	9.60	3.36	−2.18	1.38	1.12	3.10	122.92	17.02	84.5	80.5	
96836	7.60	−2.50	19.54	5.86	7.46	2.63	352.70	16.85	23.5	8.2	P
97586	10.00	−25.09	−22.88	8.93	7.65	3.01	227.64	4.68	71.6	57.7	P
97594	10.70	11.65	13.05	6.43	8.74	2.74	41.76	27.78	28.0	13.4	P
97629	6.20	0.09	−0.26	0.11	0.10	2.64	160.16	20.40	12.1	12.1	P
97644	10.70	1.57	−2.73	0.95	1.79	2.24	149.98	22.00	12.9	12.7	P
98031	6.80	−0.31	4.65	2.03	1.80	3.48	356.18	25.85	10.8	8.2	P
98190	8.00	7.38	12.12	4.98	4.43	3.40	31.36	20.99	16.4	7.0	
98955	8.60	50.15	34.16	22.25	11.47	2.98	55.74	8.13	121.1	64.7	
99082	7.00	15.80	14.66	12.01	4.82	3.05	47.14	18.86	32.9	15.2	
99089	9.40	17.77	−0.95	12.72	3.21	2.87	93.07	8.35	140.0	124.0	
99653	7.70	4.44	3.30	1.30	1.34	4.47	53.42	14.51	12.1	9.5	P
99990	7.00	−13.97	−9.59	11.06	3.45	2.83	235.53	20.76	23.2	9.8	P
100033	9.30	−4.61	0.97	2.08	0.71	3.08	281.86	11.21	23.4	22.7	P
100048	9.70	0.43	−2.30	0.88	0.84	2.74	169.41	20.70	15.8	14.6	P
100198	11.70	−66.47	−22.47	18.91	23.86	4.13	251.32	20.57	75.5	27.4	
100289	10.60	48.62	114.91	25.05	32.14	3.96	22.94	11.71	140.6	33.0	
100404	8.50	16.24	−1.92	3.21	3.69	5.12	96.73	12.97	25.7	14.0	P
100582	10.40	−64.09	−35.08	23.47	21.29	2.78	241.31	13.48	87.0	24.0	
100605	8.50	−7.04	18.09	8.75	6.35	2.95	338.74	24.92	23.8	7.5	
101888	9.20	−7.18	−0.23	3.27	4.75	2.30	268.16	37.59	11.9	6.9	P
102082	9.10	−1.81	−2.82	1.54	1.68	2.56	212.69	31.48	12.5	10.9	
102246	8.50	3.06	0.42	1.28	0.83	2.44	82.12	15.66	19.8	17.8	P
102276	6.60	1.80	−3.86	1.45	1.80	2.37	155.02	19.51	6.6	4.1	P
102829	8.50	2.41	2.75	1.32	0.97	2.89	41.26	9.93	33.0	31.3	P
102999	7.30	0.85	−8.99	4.45	3.93	2.29	174.59	28.13	13.8	5.1	
104002	9.60	−8.13	2.48	3.12	4.07	2.60	286.97	25.87	14.2	7.6	
104263	9.40	−35.53	40.42	27.12	17.45	2.45	318.69	14.34	72.9	24.3	
104451	7.00	0.91	0.67	0.58	0.53	2.46	53.65	31.87	4.5	4.3	P
104986	11.50	−15.68	−5.80	7.16	5.93	2.22	249.70	18.39	36.2	25.0	P
105269	6.00	32.32	−25.10	9.64	10.28	3.69	127.83	11.99	43.6	6.3	
105485	12.00	9.20	9.42	4.69	6.59	2.52	44.31	25.68	31.3	25.4	
106565	11.90	5.53	33.69	26.30	21.14	2.26	9.33	39.30	93.2	77.0	P
106583	7.50	4.44	2.71	1.29	1.20	4.25	58.58	13.83	10.5	8.8	P
107516	6.00	4.56	8.67	6.00	3.27	2.66	27.71	30.31	12.6	6.7	
108183	8.90	−13.31	12.62	9.18	8.35	2.26	313.47	29.20	22.3	7.3	P
108427	10.70	−8.29	6.70	4.93	5.19	2.17	308.96	27.97	14.9	7.7	
108588	6.60	2.69	28.57	6.94	7.83	3.71	5.38	13.44	34.5	11.7	
108630	8.90	8.29	2.68	4.46	3.50	2.19	72.06	25.24	13.3	6.3	
109070	7.80	−11.71	−5.61	4.66	4.34	2.95	244.40	20.19	19.3	9.4	P
109089	8.30	−1.63	−4.02	0.39	0.47	8.73	202.12	4.74	48.0	45.3	
109340	9.20	26.08	11.43	4.14	4.05	6.38	66.34	7.21	42.7	21.7	
110146	10.20	−6.51	−0.12	3.27	2.59	2.49	268.92	22.44	35.8	34.6	
110478	5.50	6.67	−8.60	3.62	3.61	3.52	142.22	21.41	16.2	8.8	
110948	8.60	−7.07	−16.43	12.22	8.59	2.54	203.27	42.19	22.9	8.9	
111043	4.10	−29.98	42.00	36.32	30.31	2.28	324.48	46.13	57.1	6.0	
111166	9.00	−9.74	−12.95	6.46	7.73	3.51	216.96	30.91	28.2	11.8	
111257	8.60	8.64	4.57	3.52	2.86	2.57	62.14	14.47	19.0	10.5	
111592	7.50	−13.42	3.03	4.78	3.57	2.82	282.72	14.30	22.6	11.9	
111946	9.10	0.94	1.08	0.34	0.56	3.83	41.01	19.96	18.5	18.2	P
112562	6.90	17.15	−14.83	7.71	7.30	2.95	130.85	18.51	28.3	6.6	
112784	9.20	3.51	0.28	1.49	0.90	2.45	85.42	15.02	39.4	37.7	P
112868	8.90	−2.98	−15.53	11.67	6.68	2.33	190.84	41.01	18.5	7.1	
112928	8.40	3.80	−18.51	12.25	8.78	2.82	168.40	39.73	28.1	9.9	
112961	3.80	−87.29	−72.72	62.53	26.88	3.12	230.20	23.24	119.0	8.5	
113131	6.30	12.98	11.21	10.75	5.63	2.21	49.20	25.80	20.1	4.7	P
113385	8.20	−5.94	9.02	2.25	3.11	3.37	326.65	10.78	26.9	16.9	
113738	8.20	−0.27	19.92	8.84	7.95	2.51	359.22	25.43	27.8	8.0	
114017	7.50	11.12	21.76	12.70	10.91	2.26	27.08	18.97	29.9	9.2	
114757	8.80	−11.83	−9.07	5.72	3.82	2.69	232.54	13.99	27.1	15.9	
115188	8.40	−2.38	−1.80	1.16	1.01	2.27	232.98	15.17	11.9	10.6	P
116018	8.90	5.36	3.84	3.06	2.78	2.74	54.40	28.92	14.7	9.6	
116681	10.00	14.54	−0.17	6.25	4.63	2.68	90.66	18.39	18.5	14.5	P
117054	8.90	−3.92	7.82	5.03	1.89	7.05	333.36	33.80	16.8	16.6	P
118188	8.70	4.17	−4.25	1.57	1.69	3.50	135.59	14.99	10.5	10.4	P