Table 3. Revised Hipparcos astrometry. In the last column stars without astrometry in HIP are flagged 'n', additional stars are flagged 'x' and stars with large deviations from HIP are flagged 'l' (cf Table 1). An 'R' refers to a note in Sect.5 and a 'U' means a slightly uncertain solution.

ID		Epoch J1991.25, ICRS		Par	Prop mot.		Standard errors						Obs		Multiplicity			Rem
HIP	Hp	R.A.	Dec.	π	$\mu_{\alpha*}$	μ_δ	σ_{Hp}	$\sigma_{\alpha*}$	σ_δ	σ_π	$\sigma_{\mu_{\alpha*}}$	σ_{μ_δ}	N	F1	θ	ρ		
	mag	deg	deg	mas	mas/yr		mag		mas		mas/yr			%	deg	$''$		
723 A	8.774	2.23740768	66.45664884	26.4	177.3	4.3	0.004	1.1	0.9	1.3	1.1	1.0	143	3				
723 B	11.331	2.23968423	66.45259264		42.9	24.4	0.053	15.0	14.9		17.6	16.0			A	167.36	14.965	x
1338 A	9.649	4.18700114	41.06906139	23.2	230.9	37.1	0.004	1.3	0.9	1.8	1.6	0.9	151	2				n R
1338 B	10.840	4.18523656	41.07144330	1.9	−10.0	−10.1	0.010	3.6	2.7	5.8	5.0	2.9			A	330.82	9.822	n
3158 A	9.739	10.04432360	−8.93506162	16.2	27.5	14.8	0.033	13.3	8.2	8.5	8.2	5.1	74	0				n
3158 B	9.912	10.04153336	−8.93139266				0.022	9.6	6.4						A	323.08	16.520	n
3472 A	7.937	11.09097286	77.20998489	3.3	−9.8	21.3	0.006	2.2	2.2	2.6	2.8	2.7	249	3				
3482 B	10.990	11.11776760	77.20959602				0.105	38.3	39.4						A	93.74	21.401	n
6132	10.328	19.65806003	−73.42417610	−0.4	58.7	−7.8	0.018	7.0	6.4	7.7	8.4	7.7	117	11				n
7158 A	8.724	23.06752189	−18.56603590	16.0	52.4	−54.1	0.004	1.7	1.0	1.8	1.7	1.1	98	2				l
7158 C	10.907	23.06890562	−18.56641500		−38.3	−64.6	0.027	12.6	7.8		13.0	8.1			A	106.12	4.915	l
7495 A	9.899	24.12469785	50.82392960	−0.6	2.4	−7.2	0.004	1.3	1.6	2.3	1.8	1.8	128	2				
7495 B	12.280	24.12404247	50.82424744				0.042	11.8	13.8						A	307.51	1.879	l
8539 A	8.625	27.52274333	14.35119112	11.1	2.1	74.2	0.004	1.8	1.5	1.9	2.5	2.1	99	9				U
8538 B	11.508	27.51997478	14.34547460				0.056	24.6	19.3						A	205.14	22.732	n
9867	10.247	31.73748826	45.18553955	49.7	260.5	−444.2	0.007	4.0	2.8	4.5	4.1	3.5	91	4				n
10531 A	7.346	33.92400302	67.67305535	54.4	518.0	−306.0	0.005	1.5	1.7	2.4	1.9	2.2	320	5				l
10529 B	9.507	33.92229151	67.67701879	4.6	4.1	−2.0	0.036	11.1	12.6	18.3	14.0	16.6			A	350.69	14.459	l
10661 A	9.448	34.29956198	37.48341078	18.8	19.0	−23.6	0.012	3.9	3.6	4.4	3.4	3.4	154	0				l
10659 B	9.690	34.29935249	37.48642749				0.013	4.8	3.8						A	356.85	10.877	n
11696 A	7.066	37.71071741	55.54863728	19.1	81.1	−98.2	0.003	1.2	1.0	1.6	1.6	1.6	232	12				U
11692 B	9.815	37.70212155	55.55201360				0.040	16.7	13.1						A	304.78	21.311	n
11888 A	9.774	38.32645221	56.31806062	−0.9	6.9	−15.5	0.011	3.2	3.0	3.3	2.9	3.7	124	0				R
11888 B	9.915	38.32628672	56.31781845				0.013	3.8	3.8						A	200.76	0.932	l
11888 C	10.562	38.31712454	56.31712490				0.052	15.3	12.0						A	259.75	18.925	x
14555 A	10.286	46.98322220	−28.21943535	55.5	−339.0	−121.0	0.005	1.9	1.7	2.5	2.5	2.2	233	3				
14559 B	11.704	46.99258297	−28.22109057	8.8	−18.0	−37.3	0.018	7.3	6.4	9.4	9.9	8.9			A	101.35	30.285	l
15690 A	8.999	50.52633397	−13.27308769	4.2	12.0	−15.8	0.004	2.0	1.5	2.6	2.3	2.1	224	7				U
15689 B	11.851	50.52341946	−13.27781864				0.057	23.4	19.3						A	210.95	19.858	l
16212 A	10.227	52.22556396	−19.97974822	4.7	12.3	−12.1	0.004	2.2	1.9	2.6	2.8	2.6	203	3				
16216 B	11.732	52.23077602	−19.97457755		49.0	10.6	0.019	8.9	7.4		12.2	10.6			A	43.45	25.641	n
16220 A	7.486	52.23836161	40.18646589	4.0	29.5	0.8	0.002	1.1	0.9	1.6	1.6	1.4	179	6				
16218 B	11.168	52.23676425	40.19288448				0.079	36.8	25.5						A	349.24	23.521	n
17749 A	9.439	57.00347861	68.67228548	50.4	126.1	249.1	0.007	2.1	3.0	4.4	2.5	4.2	501	2				
17750 B	10.665	57.00661660	68.67690872		72.4	243.3	0.024	6.8	10.2		7.9	13.5			A	13.86	17.143	l
17750 C	11.412	57.00619669	68.67672381		−85.2	340.6	0.049	13.4	20.0		15.5	26.8			B	219.55	0.863	l
18897 A	9.275	60.76379999	−15.14559013	6.5	3.7	−69.1	0.004	2.0	1.5	2.2	2.8	2.2	130	3				l
18899 B	10.429	60.76671853	−15.15037911		10.7	0.7	0.013	5.5	4.3		8.9	6.2			A	149.53	20.002	l
21000 A	10.619	67.55220666	5.29849070	8.4	43.2	−9.0	0.012	4.9	3.6	4.2	5.9	4.5	41	0				l
21000 B	10.810	67.55105216	5.29888673				0.015	6.1	4.3						A	289.01	4.377	x
21132 A	10.905	67.94960192	14.15473344	9.8	3.1	−1.6	0.011	4.1	2.4	2.8	3.8	2.7	71	1				l
21132 B	11.602	67.94941783	14.15400627				0.021	7.4	4.3						A	193.79	2.696	l
22140 A	8.307	71.46273243	−11.94939321	7.7	−19.2	−17.1	0.004	1.4	1.0	1.6	2.1	1.5	103	2				l
22140 B	10.888	71.46241549	−11.94946207		−5.8	−16.5	0.034	14.8	10.9		22.8	15.1			A	257.48	1.143	l
22140 C	10.248	71.46025611	−11.94799648		4.4	−5.4	0.022	7.6	6.5		13.9	8.8			A	299.96	10.067	l
22991 A	7.509	74.19961633	−16.13506180	2.2	−0.6	−7.4	0.005	2.4	2.0	3.3	3.6	2.3	222	5				U
22992 B	10.720	74.20363162	−16.13991808				0.110	48.1	37.6						A	141.54	22.326	n

Table 3. Revised Hipparcos astrometry - ctd

ID		Epoch J1991.25, ICRS		Par	Prop mot.		Standard errors						Obs		Multiplicity		Rem
HIP		Hp	R.A.	Dec.	π	$\mu_{\alpha*}$	μ_δ	σ_{Hp}	$\sigma_{\alpha*}$	σ_δ	σ_π	$\sigma_{\mu_{\alpha*}}$	σ_{μ_δ}	N	F1	θ	ρ	
		mag	deg	deg	mas	mas/yr		mag		mas		mas/yr			%	deg	$''$	
23295	A	8.196	75.16578243	3.26534600	−3.6	−2.8	−2.5	0.011	6.2	3.7	7.2	7.8	4.3	129	4			U
23299	B	10.716	75.17043046	3.26961000				0.119	62.1	37.4						A 47.42	22.687	n
24078	A	12.143	77.59181543	48.84307830	50.9	167.2	−387.9	0.015	6.2	4.5	5.3	5.6	3.1	67	1			n
24078	B	12.099	77.59106672	48.84331171				0.013	5.8	4.1						A 295.35	1.963	n
26221	A	5.166	83.81860603	−5.38969321	−6.3	1.1	−5.7	0.017	5.5	5.0	6.6	6.0	4.0	259	2			l
26220	B	6.501	83.81593253	−5.38732695				0.058	20.5	14.5						A 311.64	12.821	l
26224	C	6.404	83.82189566	−5.38793828				0.046	18.6	13.8						A 61.82	13.376	l
26220	D	6.932	83.81729441	−5.38526440				0.095	32.9	23.4						A 343.57	16.622	l
26237	A	4.633	83.84650578	−4.83833759	3.1	1.8	−5.3	0.007	2.3	2.1	2.4	2.0	1.4	91	21			l U
26237	B	7.180	83.84632581	−4.83866795				0.073	23.9	19.0						A 208.49	1.353	x
26948	A	9.731	85.77031359	−35.26703046	7.4	−7.3	−73.3	0.003	1.1	1.1	1.4	1.2	1.4	132	2			
26948	B	11.589	85.77431604	−35.26270648	42.2	16.9	−8.9	0.060	18.0	19.4	23.5	20.6	23.6			A 37.08	19.512	l
27067	A	8.421	86.10281175	40.40488761	14.0	20.2	−83.9	0.004	2.0	1.5	2.3	2.5	1.7	134	7			
27070	B	10.049	86.11040489	40.40725907				0.021	9.6	6.8						A 67.70	22.498	l
27464	A	9.681	87.24247939	63.69680842	11.1	9.2	−242.9	0.007	2.5	2.4	3.3	2.4	2.6	119	0			n R
27464	B	9.455	87.24506742	63.69701647	0.1	−4.0	−9.4	0.005	1.9	1.9	2.7	2.0	2.1			A 79.72	4.196	n
27600	A	8.101	87.65760528	−1.42943807	4.4	19.5	−29.8	0.004	1.9	1.4	2.0	2.2	1.7	118	9			
27600	B	10.561	87.65790064	−1.42945864		20.9	−35.4	0.038	17.3	13.4		21.7	16.0			A 93.99	1.066	l
27604	C	9.464	87.66438502	−1.42977660		14.0	0.2	0.013	5.8	4.7		7.6	5.9			A 92.86	24.430	l
27791	A	8.052	88.21972609	34.44529601	12.9	−12.6	−70.3	0.005	2.7	2.2	1.5	2.2	1.5	43	0			l U
27791	B	9.854	88.22013244	34.44470819				0.031	14.1	11.8						A 150.31	2.436	x
28937	A	7.158	91.61683741	10.75033685	4.3	3.9	−22.2	0.005	3.9	2.5	4.0	5.2	3.0	164	4			U
28936	B	9.487	91.61117444	10.74812995				0.048	26.0	14.6						A 248.36	21.547	l
30362	A	9.536	95.78803699	8.90697558	−0.6	−1.1	−4.3	0.006	2.9	2.0	2.8	2.8	2.1	104	10			l
30365	C	11.815	95.79449892	8.90727377				0.051	22.1	17.6						A 87.33	23.007	l
30757	A	6.673	96.94409776	20.78961921	6.5	−32.8	−45.1	0.002	1.0	0.7	1.1	1.0	0.8	67	4			
30756	B	8.566	96.94112871	20.78302552		−2.3	−4.5	0.011	5.3	4.0		5.4	4.2			A 202.83	25.755	l
31110	A	7.262	97.91890084	5.76913002	−0.6	0.4	−12.9	0.007	3.2	2.5	3.4	2.6	2.1	97	3			l R
31109	B	9.116	97.91602099	5.77008766				0.043	13.2	9.6						A 288.48	10.876	l
31110	C	9.672	97.91898475	5.76937165				0.068	25.1	18.1						A 19.06	0.920	x
31132		11.070	97.98452432	−27.72950227	22.2	31.0	214.0	0.004	1.4	1.5	2.3	1.6	2.0	168	3			n
31157		9.439	98.06844451	52.41218387	33.6	90.8	65.4	0.019	11.3	6.6	13.5	10.9	8.0	91	18			n R
31824	A	7.640	99.81289853	−31.83559964	0.0	−3.0	7.5	0.002	0.9	1.1	1.4	1.1	1.5	303	11			
31825	B	10.885	99.81650958	−31.82971453				0.081	20.8	28.5						A 27.53	23.892	n
31825	C	11.203	99.81660355	−31.82984138				0.106	27.9	37.9						B 147.81	0.540	n
31942	A	8.703	100.12502051	−3.52445125	5.8	−33.8	−16.0	0.004	1.6	1.2	1.9	1.8	1.4	114	1			
31942	B	10.474	100.12637151	−3.51973666				0.034	14.6	9.8						A 15.96	17.653	x
31973	A	9.049	100.23185888	−4.56841313	4.5	−22.6	−3.0	0.004	1.7	1.0	1.8	1.7	1.5	102	1			l
31973	B	10.591	100.23573503	−4.56583100				0.024	10.1	6.5						A 56.25	16.730	l
32000	A	9.045	100.29288014	−7.99050811	2.8	−4.3	−0.6	0.018	7.1	4.1	4.1	3.6	3.1	189	1			n
32000	B	9.622	100.29254333	−7.99050653				0.028	10.9	6.9						A 270.27	1.201	n
31999	C	8.719	100.29222452	−7.99364878				0.012	4.7	3.1						A 191.68	11.545	n
32628	A	8.304	102.09229599	−15.32980674	4.0	7.1	−0.4	0.006	2.0	1.9	2.1	2.1	1.9	68	1			l R
32628	B	9.475	102.09390650	−15.33159656	16.8	9.3	−170.5	0.018	6.7	5.6	7.2	7.3	6.6			A 139.05	8.531	x
32730	A	7.895	102.41234254	53.03136347	7.4	−5.6	−62.7	0.005	2.4	2.1	3.1	2.6	1.9	221	5			
32738	B	9.918	102.42171597	53.03361307				0.031	14.7	12.9						A 68.24	21.849	l
33383	A	9.633	104.14342774	28.96574894	1.6	0.0	−3.8	0.004	1.9	1.2	1.8	2.0	1.6	95	2			l
33383	B	10.399	104.14366548	28.96851157				0.008	3.8	2.1						A 4.31	9.974	x
33699	A	9.285	105.02882476	−31.62971586	4.8	−1.4	−58.8	0.003	0.9	1.1	1.4	1.1	1.2	117	2			
33699	B	11.525	105.02920603	−31.62442490		1.3	38.5	0.063	18.4	21.6		23.0	24.2			A 3.51	19.083	x

Table 3. Revised Hipparcos astrometry - ctd

ID HIP	Hp mag	Epoch J1991.25, ICRS R.A. deg	Dec. deg	Par π mas	Prop mot. $\mu_{\alpha*}$ mas/yr	μ_δ	Standard errors σ_{H_p} mag	$\sigma_{\alpha*}$	σ_δ mas	σ_π	$\sigma_{\mu_{\alpha*}}$	σ_{μ_δ} mas/yr	Obs N	F1 %	Multiplicity θ deg	ρ ''	Rem
33985 A	7.876	105.77294732	54.17404436	0.7	−27.2	−6.3	0.003	1.1	0.9	1.4	1.3	1.2	115	2			l
33985 B	9.828	105.77683162	54.17503940				0.019	7.2	4.9						A 66.36	8.934	l
33985 C	9.865	105.77690198	54.17549910				0.029	8.3	5.2						B 5.12	1.662	x
34226 A	9.903	106.43714948	26.14023095	6.4	−7.4	−23.0	0.005	2.7	1.5	2.2	2.6	1.8	80	3			n R
34226 B	9.965	106.43753582	26.14066672				0.006	2.8	1.5						A 38.52	2.005	n
34465 A	9.561	107.15726223	−17.63473796	0.1	−0.7	−0.3	0.004	1.6	1.7	2.4	2.1	1.9	185	8			
34467 B	11.574	107.16166647	−17.63021920				0.028	10.6	11.2						A 42.89	22.203	n
34718 A	6.889	107.83724713	−21.80329259	1.7	−7.4	3.9	0.007	2.2	2.4	3.3	2.7	3.1	260	3			l
34716 B	8.763	107.83390025	−21.80536853				0.034	9.7	11.1						A 236.25	13.453	n
36113 A	8.267	111.59045073	69.48371726	4.5	−17.8	−29.0	0.003	1.0	1.7	2.4	1.3	2.1	514	6			l U
36109 B	11.430	111.57440047	69.48808915				0.059	19.6	29.8						A 307.86	25.646	n
38479 A	9.430	118.21548002	−7.97139644	−2.7	−3.5	0.4	0.004	1.3	1.4	2.0	1.5	1.3	94	4			U
38479 B	11.764	118.21299226	−7.97224725				0.027	10.7	9.3						A 250.95	9.383	l
38562 A	8.898	118.43644742	−21.92110951	−0.4	−10.4	6.7	0.086	23.5	14.7	14.3	13.9	8.6	128	19			n R
38562 B	9.621	118.43632958	−21.92109436				0.154	44.1	28.8						A 277.89	0.397	n
38562 C	10.223	118.43632262	−21.92348448				0.068	16.6	17.0						A 182.79	8.560	n
39653 A	11.030	121.56317452	2.01316078	−0.8	−11.2	42.5	0.010	4.1	3.8	2.1	6.3	5.5	42	33			l R
39653 B	11.291	121.56303654	2.01286304		−15.2	2.1	0.012	5.1	4.8		8.1	6.9			A 204.85	1.181	l
39825 A	6.986	122.05380884	−61.07722348	7.1	−6.4	−9.0	0.004	1.4	1.4	1.4	1.6	1.3	207	11			
39827 B	8.935	122.06038686	−61.07769715		−8.0	4.3	0.023	8.0	7.6		9.6	7.9			A 98.47	11.579	l
40638 A	8.873	124.43744933	−61.46667199	1.6	12.8	−11.3	0.005	1.2	1.3	1.3	1.3	1.2	113	3			
40638 B	10.742	124.42685672	−61.46569198	6.9	9.5	27.0	0.055	16.7	15.9	17.6	18.1	16.7			A 280.96	18.554	l
41884	10.174	128.10658008	−0.95292417	0.6	−18.2	−11.4	0.014	6.3	5.4	8.3	8.4	6.7	63	2			n R
43422 A	9.762	132.67636225	7.86455741	51.8	−63.6	−8.1	0.005	4.3	2.8	1.8	5.2	3.3	60	55			l R
43422 B	10.029	132.67673090	7.86409875				0.008	5.0	3.5						A 141.47	2.111	x
43947 A	8.680	134.26687677	−29.84585142	9.1	10.3	−18.2	0.008	2.2	2.7	3.6	2.8	2.7	313	1			l
43946 B	9.525	134.26568129	−29.84847488				0.018	4.8	5.8						A 201.57	10.155	n
44798 A	5.250	136.93676565	10.66821602	6.0	−21.1	−9.5	0.009	1.6	0.5	0.4	0.5	0.2	120	5			
44798 B	8.707	136.93684722	10.66819223				0.225	37.6	12.2						A 106.53	0.301	x
46863 A	8.963	143.24083785	−42.78453471	0.8	−55.1	24.7	0.003	1.1	1.1	1.5	1.3	1.3	253	5			
46860 B	11.947	143.23700337	−42.77924920		−9.1	9.7	0.045	17.6	17.9		21.7	21.1			A 331.97	21.557	l
46949 A	9.843	143.53021215	−37.13084753	8.6	−8.9	−17.4	0.004	1.3	1.4	2.0	1.2	1.4	207	2			
46949 B	12.001	143.53533054	−37.13444295				0.083	24.0	28.0						A 131.38	19.579	x
47113 A	8.873	144.02070286	53.29828709	7.0	−13.0	4.2	0.004	1.9	1.5	2.5	2.3	1.4	180	6			
47107 B	10.594	144.01415902	53.29371835				0.021	9.2	7.2						A 220.57	21.651	l
47797 A	9.270	146.16227804	−29.62273123	6.8	35.1	−30.1	0.004	1.3	1.5	2.0	1.5	1.6	191	1			
47797 B	11.972	146.16256068	−29.62298162				0.049	14.5	13.7						A 135.54	1.263	x
48657 A	8.269	148.84645959	10.11183674	9.8	−63.5	−8.4	0.005	2.8	1.7	3.2	3.0	1.7	165	13			
48656 B	10.665	148.84247064	10.10837718				0.051	27.0	19.0						A 228.62	18.841	l
48665 A	9.829	148.87605404	−57.95463162	18.0	40.7	−98.0	0.028	7.4	8.2	6.0	5.1	6.1	143	14			n
48665 B	9.830	148.87514675	−57.95410730				0.026	7.2	8.0						A 317.44	2.562	n
51496	10.060	157.76457695	−21.64374458	31.0	234.3	−339.2	0.011	8.1	4.5	6.0	8.8	5.8	70	30			n R
52583 A	9.538	161.28573758	−40.26005338	−1.9	−18.4	2.8	0.034	7.7	9.9	7.1	9.8	9.4	228	2			l
52583 B	9.864	161.28575769	−40.25994691		−0.6	5.9	0.046	10.4	12.8		13.7	12.9			A 8.20	0.387	x
52585 C	9.955	161.28850368	−40.25691630		−130.9	59.7	0.029	10.5	9.0		14.1	12.6			A 33.94	13.612	n
52942 A	9.545	162.40486486	12.92932439	3.6	−46.0	−44.7	0.018	7.3	5.2	6.2	6.4	5.3	155	4			l
52940 B	9.739	162.39988645	12.92975389				0.016	8.4	5.9						A 275.06	17.536	l
54133 A	10.101	166.12802392	−63.52713122	4.6	13.6	−12.8	0.007	1.9	2.0	2.2	2.4	2.0	125	0			
54133 B	11.752	166.12842033	−63.52471173				0.034	8.7	9.0						A 4.18	8.733	l
54133 C	11.615	166.12606136	−63.52177437				0.072	19.4	19.6						A 350.72	19.540	x

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ID HIP	Hp mag	Epoch J1991.25, ICRS R.A. deg	Dec. deg	Par π mas	Prop mot. $\mu_{\alpha*}$ mas/yr	μ_δ	Standard errors σ_{Hp} mag	$\sigma_{\alpha*}$	σ_δ mas	σ_π	$\sigma_{\mu_{\alpha*}}$ mas/yr	σ_{μ_δ}	Obs N	F1 %	Multiplicity θ deg	ρ ''	Rem
54175 A	7.594	166.23128954	−61.05161208	−4.3	−9.5	3.1	0.003	1.3	1.3	1.6	1.6	1.5	250	5			
54171 B	10.119	166.22218834	−61.05657088				0.036	13.4	13.5						A 221.61	23.878	n
55829 A	9.141	171.63255627	−55.47657825	1.2	−11.8	4.9	0.005	1.5	1.6	2.1	1.9	1.9	293	6			U
55826 B	12.302	171.62654499	−55.47746523				0.086	28.2	28.6						A 255.40	12.673	n
58184 A	7.003	179.00101350	35.34058812	15.2	−24.7	−26.9	0.054	4.3	1.1	0.6	0.6	0.3	148	1			l
58184 B	9.127	179.00106497	35.34058023				0.378	30.6	7.7						A 100.64	0.154	x
58906 A	7.461	181.19576899	−61.99683415	−2.5	−9.8	−1.6	0.005	1.9	2.0	2.3	1.9	2.0	404	6			
58910 B	7.939	181.20266429	−62.00227565				0.007	2.9	3.0						A 149.25	22.794	l
58909 C	10.174	181.20044598	−61.99027794				0.064	24.7	24.9						A 18.52	24.891	l
59154 A	10.852	181.96476488	−75.92102951	23.2	−142.1	−6.3	0.013	4.1	4.2	3.7	4.7	4.5	125	1			n R
59154 B	10.901	181.96478303	−75.92121386		−165.4	−1.2	0.013	4.4	4.5		4.9	4.7			A 178.63	0.664	n
59193 A	8.165	182.08585290	43.90709360	13.7	−52.2	40.5	0.008	2.7	2.5	3.5	2.9	3.6	243	3			U
59189 B	11.183	182.07933334	43.90668833				0.110	39.8	34.0						A 265.07	16.973	n
59272 A	6.964	182.36810638	−11.85666628	42.9	315.5	−165.9	0.007	2.4	1.6	2.7	2.3	1.6	240	1			l R
59272 B	9.661	182.37078217	−11.85661026				0.058	24.8	18.6						A 88.77	9.429	x
59273 C	8.673	182.37056648	−11.85442659	−9.7	−8.0	−88.2	0.026	10.4	7.4	12.7	11.0	7.3			A 47.07	11.838	n
60155 A	8.448	185.04145334	−14.12530884	10.9	−3.6	−87.0	0.003	1.1	0.8	1.2	1.1	0.7	89	4			
60155 B	10.891	185.03774322	−14.12338894		23.1	−43.1	0.038	15.8	11.8		15.2	9.9			A 298.08	14.681	l
60353 A	6.591	185.63390141	5.30557275	35.6	−166.9	−52.2	0.005	2.6	1.7	2.7	3.0	1.6	194	8			
60352 B	9.507	185.63152118	5.31053817				0.073	39.3	23.1						A 334.48	19.807	l
62292 A	10.884	191.47451824	−24.41719966	8.5	−48.3	−46.4	0.022	7.3	5.8	7.3	7.1	4.7	155	3			n R
62295 B	12.028	191.47812655	−24.41741317				0.053	18.5	14.1						A 93.72	11.853	n
62954 A	7.135	193.50128011	−18.03762738	2.4	−36.2	2.7	0.003	1.5	1.1	1.8	1.6	0.7	120	12			
62951 B	8.500	193.49508082	−18.03491344				0.010	5.0	3.4						A 294.72	23.362	l
63081 A	6.932	193.87639112	11.49623461	7.0	−22.3	−7.0	0.003	1.3	1.0	1.4	1.4	0.9	130	5			l R
63079 B	9.508	193.87100214	11.48991992		−85.8	15.0	0.028	13.9	10.1		14.5	9.0			A 219.91	29.635	l
63407 A	8.369	194.88888593	28.23891305	9.6	−113.0	3.3	0.051	2.9	4.0	0.9	1.0	0.7	71	7			l
63407 B	10.678	194.88891370	28.23887427				0.433	27.0	33.3						A 147.75	0.165	x
63509 A	9.072	195.19358547	14.37744628	16.2	5.4	−77.2	0.003	1.7	1.1	1.4	1.8	0.9	110	2			
63507 B	10.143	195.19255028	14.37006858				0.008	4.1	2.7						A 187.74	26.804	l
63721 A	8.846	195.87120219	25.79668144	4.6	−35.3	−20.0	0.002	1.0	0.8	1.3	1.2	0.8	176	3			l R
63716 B	10.384	195.86114675	25.79845792				0.009	3.9	3.4						A 281.10	33.213	l
65266 A	8.219	200.63474795	−22.95281673	13.7	−26.1	9.9	0.004	1.8	1.4	1.6	1.7	1.1	123	4			
65269 B	8.404	200.64303446	−22.95141565				0.004	2.0	1.6						A 79.60	27.929	l
65858 A	8.182	202.49505535	60.35348546	4.0	20.9	−25.2	0.003	1.0	1.1	1.3	1.2	1.2	278	8			
65863 B	11.398	202.49923077	60.35980314				0.057	20.3	22.1						A 18.10	23.928	n
66077 A	11.928	203.18513899	16.81138327	64.5	283.1	−212.6	0.009	4.0	3.1	4.4	4.3	3.2	120	0			l
66077 B	12.354	203.18573013	16.81202509		304.8	−242.2	0.014	6.0	4.5		6.3	4.7			A 41.40	3.080	x
67594 A	9.873	207.76190989	23.76276680	23.1	49.9	−76.5	0.004	1.8	1.3	2.3	2.1	1.4	218	9			
67593 B	11.633	207.75374584	23.76560767		−2.8	−16.3	0.020	10.4	6.6		11.6	7.8			A 290.82	28.777	l
68822 A	8.807	211.35239336	−23.16488202	8.6	−10.7	−15.3	0.008	3.8	2.6	3.7	5.7	3.4	121	5			l U
68820 B	11.484	211.35072697	−23.16045813				0.099	45.8	24.0						A 340.90	16.854	n
69192	7.567	212.47864842	−44.28092453	1.4	−7.5	−7.2	0.012	4.5	3.2	5.2	5.5	4.1	90	12			n R
69797 A	8.544	214.27319269	−48.17114054	10.8	−36.0	−18.0	0.003	1.0	1.0	1.6	1.4	1.4	268	3			
69799 B	10.306	214.27487063	−48.16844955				0.017	5.2	5.3						A 22.58	10.492	l
70877 A	10.122	217.41281266	−70.12225680	−2.0	−9.2	−7.6	0.006	2.1	2.2	3.0	2.2	2.5	313	4			
70878 B	12.919	217.42222363	−70.12523807				0.089	26.4	29.7						A 132.98	15.744	n
70939 A	9.432	217.64762173	−60.86509550	2.2	−7.6	−8.7	0.008	2.8	2.6	3.7	3.5	3.0	215	8			
70940 B	10.628	217.64794190	−60.87082374				0.020	8.0	7.1						A 178.44	20.629	l

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70976 A	8.859	217.75642966	−43.84817065	18.2	−142.3	−1.9	0.003	2.0	1.1	2.4	1.8	1.7	200	2			l R
70970 C	10.561	217.75261218	−43.84982499	11.3	−8.0	−7.4	0.018	8.7	4.6	7.9	6.0	5.1			A 239.00	11.563	l
70970 D	10.575	217.74763550	−43.85245377				0.016	9.1	4.9						A 235.96	27.550	x
71500 A	6.040	219.33403809	−46.13342684	4.0	−20.2	−15.7	0.095	10.8	9.8	4.7	4.5	3.8	311	5			l U
71500 B	6.869	219.33398020	−46.13337671				0.199	21.5	24.6						A 321.33	0.231	l
71502 C	8.370	219.33723908	−46.12857505				0.087	35.5	23.8						A 24.57	19.206	l
72862 A	7.614	223.39729936	69.76279706	2.0	16.0	−52.1	0.002	0.7	0.8	0.8	0.8	0.9	236	13			U
72860 B	11.757	223.37986004	69.76986132		−86.2	21.1	0.099	37.5	39.1		44.9	49.5			A 319.52	33.440	n
75805 A	8.762	232.29100811	−6.97915430	−1.1	−8.1	−3.1	0.003	1.8	1.0	2.0	2.5	1.9	207	8			l
75807 B	11.615	232.29289400	−6.97339092				0.047	25.4	14.2						A 17.99	21.815	l
75840 A	9.542	232.38624535	−48.73581490	17.0	−90.6	−49.6	0.007	2.4	2.1	3.5	3.5	3.2	155	7			
75845 B	11.762	232.38980893	−48.73879554		−4.9	−24.2	0.056	18.1	15.6		29.0	24.5			A 141.75	13.665	l
76351 A	8.853	233.91704960	−80.20469401	24.4	−49.1	43.2	0.004	1.6	1.7	2.0	1.8	1.9	292	5			
76362 B	10.702	233.95252767	−80.20248246		−2.4	11.1	0.024	8.6	9.9		9.9	11.2			A 69.90	23.144	l
76435 A	9.185	234.17000548	−42.13015370	10.0	−43.8	−85.4	0.004	1.4	1.0	1.8	1.6	1.5	102	0			
76435 B	10.724	234.16973076	−42.13390501				0.021	7.1	5.6						A 183.11	13.525	l
76563 A	7.842	234.55398338	36.24674788	4.5	−54.1	39.2	0.011	3.2	3.2	3.2	2.5	2.8	288	0			l
76566 C	8.122	234.55913515	36.24704615				0.014	3.8	4.0						A 85.89	14.996	l
76566 D	9.090	234.55931196	36.24746237				0.038	9.9	10.3						C 18.91	1.584	l
77516 A	3.759	237.40526376	−3.43013833	20.0	−100.1	−27.3	0.045	4.6	1.4	0.5	0.6	0.4	99	1			l R
77516 B	5.398	237.40531715	−3.43015362				0.203	21.0	6.5						A 106.01	0.200	x
78384 A	3.350	240.03058571	−38.39664111	8.4	−14.3	−30.4	0.001	0.4	0.3	0.6	0.5	0.3	92	4			
78384 B	7.951	240.03233364	−38.39273541				0.106	40.3	27.9						A 19.33	14.900	x
80198 A	8.410	245.59030120	−31.25108634	2.5	2.2	−6.0	0.003	1.0	0.7	1.1	1.2	0.8	88	6			
80198 B	11.084	245.58422741	−31.25117344				0.063	28.2	16.2						A 269.04	18.696	x
80582 A	4.521	246.79603241	−47.55473552	6.8	−12.9	−21.5	0.003	2.2	1.1	2.7	2.6	1.8	260	4			
80579 B	7.580	246.79198650	−47.54903616				0.050	31.8	15.0						A 334.40	22.751	n
80879 A	8.868	247.72475023	26.04783086	0.7	−8.9	−6.4	0.004	1.3	1.7	2.5	1.7	2.2	414	5			
80880 C	11.589	247.72784339	26.05499550				0.046	14.8	21.7						A 21.20	27.665	n
81402 A	10.617	249.38478477	−5.50508817	21.3	−96.2	24.0	0.009	5.4	4.1	3.9	6.9	6.4	87	1			n
81402 B	10.730	249.38510573	−5.50324788				0.011	5.8	4.2						A 9.85	6.724	n
81538	9.827	249.80780234	52.62722493	16.9	−153.0	162.4	0.040	17.0	15.5	18.2	19.0	17.0	120	14			n R
81565 A	8.716	249.87992174	−53.36155229	6.0	−43.9	−62.5	0.003	1.6	1.2	2.0	2.0	1.5	222	10			
81562 B	11.980	249.87363927	−53.35545892		−32.5	−2.8	0.065	35.2	25.5		46.4	32.9			A 328.39	25.756	l
81694 A	10.498	250.32374778	30.10980407	17.6	−46.0	87.8	0.027	8.7	10.6	11.8	9.5	11.7	130	5			n
81694 B	11.060	250.32382744	30.10964309				0.051	14.0	16.9						A 156.83	0.630	n
82021	9.725	251.32080258	−38.80906847	71.3	−53.8	−69.1	0.027	12.5	9.3	14.8	13.8	10.4	59	3			n R
82724 A	12.061	253.63387481	−62.40038641	7.6	45.7	15.8	0.017	7.0	6.5	7.6	7.6	7.7	371	1			l
82725 B	11.714	253.63559590	−62.40389700		8.2	−4.2	0.013	5.2	4.8		5.7	5.8			A 167.20	12.960	l
82904	11.894	254.12403215	−57.85408323	24.2	−178.3	−318.3	0.010	3.5	3.8	6.3	4.4	4.3	250	55			n R
83371 A	9.114	255.59051755	−48.91856626	0.5	−3.3	−7.2	0.018	7.3	4.2	5.5	6.8	4.2	127	5			U
83371 B	9.845	255.59134141	−48.91812785				0.039	15.0	8.7						A 51.00	2.508	l
83369 C	11.074	255.58513899	−48.92103769				0.090	34.5	24.1						A 235.03	15.526	l
83568 A	7.417	256.19081731	28.09103799	7.2	6.5	7.5	0.002	0.5	0.6	0.8	0.6	0.8	156	2			U
83568 B	9.827	256.18562036	28.08743480		−91.9	−88.9	0.066	18.1	24.4		22.7	31.8			A 231.84	20.993	l
83612 A	8.507	256.34319047	−33.77001301	18.9	134.2	−140.9	0.008	3.8	2.9	3.7	5.1	3.5	141	3			
83609 B	9.061	256.33637813	−33.76666556		−15.6	−4.3	0.013	6.6	5.0		9.3	6.3			A 300.59	23.682	l
83852 A	9.611	257.04518925	1.71942532	14.6	−106.0	−167.6	0.009	4.5	3.1	4.1	5.7	4.0	164	4			l
83851 B	10.660	257.04147881	1.72011233		3.2	11.6	0.023	11.7	8.2		15.1	10.3			A 280.49	13.579	l

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84709 A	6.381	259.73485557	−34.98957446	138.0	1158.9	−112.8	0.002	0.7	0.4	0.6	0.8	0.4	103	0			l
84709 B	7.386	259.73413573	−34.98951423		1164.1	−229.7	0.004	1.7	0.9		1.9	0.9			A 275.83	2.134	x
85153 A	9.115	261.01401351	3.06761055	7.3	3.8	−20.0	0.005	2.0	1.6	2.4	2.3	1.5	80	5			
85153 B	9.615	261.02030679	3.06913447				0.069	25.8	18.8						A 76.37	23.279	l
85229 A	8.573	261.22815957	13.32839604	8.2	−11.0	0.6	0.003	1.3	1.1	1.4	1.2	1.1	179	3			l
85227 B	9.386	261.22385849	13.33444686				0.006	2.6	2.2						A 325.33	26.486	
85607 A	9.575	262.40617663	24.65681857	4.6	−10.1	3.8	0.006	2.0	2.6	3.7	2.2	3.3	366	1			
85605 B	11.093	262.40114512	24.65307843				0.023	7.3	10.5						A 230.72	21.267	l
85781 A	7.090	262.92724039	30.31813921	11.8	−4.6	−119.7	0.001	0.3	0.4	0.5	0.4	0.5	280	6			
85778 B	10.774	262.92137320	30.32522817		20.4	−38.5	0.031	10.6	12.9		12.7	16.4			A 324.46	31.364	n
86615 A	10.627	265.48841007	−44.02155980	7.1	14.0	4.7	0.011	3.9	2.6	2.4	3.0	2.3	60	2			l
86615 B	10.668	265.48865306	−44.02138636				0.011	4.0	2.8						A 45.21	0.886	x
86963 A	11.491	266.56031615	−32.10166527	68.5	−80.9	−274.2	0.032	17.7	10.1	7.9	9.7	4.9	156	4			l
86961 B	10.516	266.55334732	−32.10187747				0.013	7.4	4.6						A 267.94	21.266	l
87122 A	10.594	267.00278330	−22.67448891	7.0	−1.3	−6.1	0.011	4.1	3.3	3.8	5.0	2.9	49	4			n
87122 B	10.639	267.00272551	−22.67421574				0.011	4.3	3.2						A 348.95	1.002	n
87820 A	10.000	269.09721380	58.21851090	0.8	−7.6	12.2	0.023	9.4	10.0	7.9	8.6	9.9	198	5			l
87816 B	11.065	269.09226887	58.21466256				0.045	15.3	16.2						A 214.09	16.729	n
88637 A	7.661	271.45718689	21.44599660	28.7	−21.6	−41.6	0.007	2.4	2.5	3.5	2.7	3.0	284	12			R
88637 B	8.440	271.45732670	21.44599172		−44.5	−42.2	0.015	4.8	5.0		5.4	6.2			A 92.15	0.469	
88639 C	10.493	271.45847572	21.43824301		−21.6	−41.6	0.086	30.4	35.7		2.7	3.0			A 171.20	28.245	n
90724 A	9.751	277.64880641	−36.40661987	7.2	6.1	−3.9	0.009	4.0	2.6	3.8	4.5	3.0	119	3			l
90724 B	10.152	277.64796114	−36.40435556				0.013	6.0	3.5						A 343.28	8.511	l
92583 A	7.918	282.98575635	−57.93468032	10.9	3.0	−33.5	0.005	2.1	1.7	2.5	2.5	1.8	129	9			
92584 B	10.809	282.99000994	−57.92886278				0.072	30.7	23.9						A 21.22	22.466	n
93539 A	7.905	285.77202517	−45.71170575	0.8	1.5	−16.0	0.009	4.1	2.7	3.8	4.3	3.1	188	5			l
93539 B	8.921	285.77147064	−45.71160609				0.023	10.5	5.8						A 284.43	1.439	x
93538 C	9.113	285.76800549	−45.71611009				0.022	11.0	6.5						A 212.51	18.801	n
94227 A	10.621	287.72712175	−48.07984542	9.9	9.2	4.9	0.014	7.7	5.3	6.4	7.9	6.1	175	10			l
94223 B	11.300	287.71896016	−48.07777190				0.034	11.8	8.0						A 290.82	21.002	l
94223 C	11.624	287.71968322	−48.07776712				0.047	15.7	10.2						B 89.43	1.739	l
95579 A	9.944	291.61379889	−13.13191565	7.2	−3.2	−7.4	0.027	8.2	5.0	8.2	7.5	5.2	86	0			l
95579 B	10.644	291.61673206	−13.13362770				0.033	13.7	8.4						A 120.94	11.989	l
96493 A	9.550	294.24139265	20.95253285	18.1	−11.6	−254.8	0.005	1.6	1.6	2.1	1.8	1.9	107	1			
96493 B	11.461	294.23920029	20.94763855		−14.3	−13.0	0.072	24.1	21.9		27.9	28.8			A 202.70	19.099	l
97099 A	7.679	296.00002454	−66.29699752	16.1	−22.2	−214.2	0.006	2.3	2.3	3.1	2.8	3.0	215	8			U
97096 B	9.971	295.98835178	−66.29329109				0.052	20.3	18.2						A 308.30	21.528	l
97241 A	10.964	296.45615082	32.38664794	82.1	393.4	201.9	0.009	2.3	3.0	3.6	2.7	3.3	133	1			l
97241 B	11.558	296.45254505	32.38994579	−5.3	12.2	−17.9	0.026	6.8	8.3	11.0	8.3	10.2			A 317.29	16.159	l
98528 A	8.331	300.24837234	37.69892150	1.9	−3.6	−7.6	0.007	2.4	2.4	2.9	2.7	2.5	258	3			l
98528 B	9.843	300.24855968	37.69902655				0.027	9.4	9.2						A 54.67	0.654	x
98534 C	9.694	300.25593388	37.69901470				0.021	7.7	8.1						A 89.11	21.541	l
98713	10.462	300.75639893	−76.13311876	16.1	186.8	−175.1	0.004	1.3	1.5	2.0	1.5	1.8	171	2			n
98811 A	11.154	301.01897329	−65.59825773	77.6	134.1	−852.7	0.020	6.4	6.2	9.1	6.4	5.5	146	5			n
98811 B	12.887	301.00736691	−65.59739971				0.055	16.9	16.9						A 280.14	17.536	n
98909	8.229	301.27048995	20.64816480	−3.0	−1.5	−2.8	0.007	2.6	2.4	3.6	3.6	3.8	81	2			n
99862 A	9.062	303.91774898	43.64986731	2.8	−6.0	−12.1	0.018	1.3	2.4	0.7	0.6	0.7	252	52			l R
99862 B	9.818	303.91771732	43.64992801				0.037	2.7	5.0						A 339.32	0.234	x
99862 C	10.506	303.91690114	43.65046723				0.011	2.9	2.7						A 314.36	3.089	x

Table 3. Revised Hipparcos astrometry - ctd

ID HIP	Hp mag	Epoch J1991.25, ICRS R.A. deg	Dec. deg	Par π mas	Prop mot. $\mu_{\alpha*}$	μ_δ mas/yr	Standard errors σ_{Hp} mag	$\sigma_{\alpha*}$	σ_δ mas	σ_π	$\sigma_{\mu_{\alpha*}}$	σ_{μ_δ} mas/yr	Obs N	F1 %	Multiplicity θ deg	ρ ''	Rem
100246 A	7.906	304.96947539	−2.24750711	2.7	4.8	3.0	0.004	2.1	1.3	2.4	3.7	2.6	124	3			
100245 B	9.441	304.96720924	−2.24110791				0.016	8.8	5.1						A 340.51	24.437	n
100288 A	6.717	305.11616883	−29.19721593	5.0	−1.9	0.8	0.001	0.7	0.4	0.9	0.9	0.5	388	1			
100288 B	10.218	305.11699872	−29.19644817				0.036	17.7	10.5						A 43.34	3.800	l
100286 C	7.782	305.11072603	−29.19133643				0.003	1.8	1.0						A 321.06	27.214	l
100289 A	10.795	305.11767866	41.36433037	6.1	−4.4	−11.1	0.009	2.1	2.4	2.7	2.1	2.3	136	2			l R
100289 B	11.670	305.11492753	41.35939011				0.046	12.3	14.3						A 202.68	19.276	x
100360 A	7.847	305.30838893	43.58922739	4.4	3.8	3.7	0.008	2.5	2.5	2.9	2.5	2.5	233	2			
100364 B	10.861	305.31442207	43.58748623				0.110	36.9	35.5						A 111.72	16.934	n
101962 A	8.709	309.93082315	−64.60716442	3.0	1.8	−23.3	0.006	1.8	1.6	2.6	2.1	1.9	122	3			
101962 B	10.197	309.93046581	−64.60160518				0.070	21.5	19.9						A 358.42	20.021	x
103996 A	9.824	316.05548148	−55.33279999	17.6	107.0	−114.1	0.011	4.0	3.7	3.9	3.7	2.5	165	2			n
103996 B	9.918	316.05527766	−55.33266681				0.012	4.4	3.8						A 318.96	0.636	n
103995 C	9.934	316.05212446	−55.33575738				0.013	4.7	3.9						A 212.85	12.673	n
105230 A	12.367	319.73478894	54.21098822	47.8	−88.6	208.5	0.025	7.2	7.0	8.9	8.9	8.0	98	1			n R
105230 B	13.642	319.73109154	54.21383251	42.1	29.7	−22.9	0.062	17.4	17.3	21.6	21.6	19.4			A 322.76	12.862	n
106132 A	7.265	322.47063057	52.93383066	4.2	4.0	4.3	0.003	1.1	1.1	1.3	1.1	1.1	233	4			
106124 B	9.703	322.45926816	52.93569921				0.027	10.6	10.3						A 285.27	25.555	n
107407 A	8.724	326.32660938	−13.67594486	1.6	−2.2	4.7	0.002	1.1	0.8	1.3	1.7	1.0	107	7			U
107404 B	11.650	326.32124857	−13.68142999				0.038	15.9	13.0						A 223.52	27.231	l
108288 A	8.522	329.08427856	−59.35107525	12.1	−18.1	−7.6	0.002	1.0	0.9	1.5	1.4	1.1	282	2			
108291 B	10.880	329.09136292	−59.34495655		64.1	−42.6	0.022	9.3	8.2		12.9	10.0			A 30.56	25.579	n
109038 A	8.399	331.33173587	−1.42419481	8.9	7.9	−16.3	0.003	1.5	1.1	1.6	2.0	1.2	114	3			
109035 B	10.337	331.32586328	−1.42022740		41.8	−6.2	0.019	8.8	6.9		12.4	7.6			A 304.05	25.508	l
109467 A	7.597	332.64355383	47.91378942	1.7	−5.2	−7.8	0.005	2.1	2.3	2.9	2.3	2.4	262	4			U
109464 B	10.176	332.63739104	47.91758688				0.060	22.0	23.0						A 312.60	20.199	l
110629 A	6.724	336.16296555	−41.44025597	17.4	142.3	−31.9	0.008	3.5	2.2	3.7	3.6	2.2	214	2			l
110632 B	8.372	336.16939508	−41.43823591		−41.9	−10.3	0.035	15.6	10.1		17.9	10.9			A 67.26	18.814	l
111279 A	8.014	338.14927624	34.22881075	7.2	11.5	−12.9	0.005	1.9	1.8	2.5	2.8	2.7	234	5			
111277 B	10.573	338.14468224	34.22407226				0.053	20.5	19.5						A 218.72	21.863	n
111523 A	9.791	338.92001550	14.42809389	−6.0	5.2	0.7	0.004	1.4	1.2	1.9	1.8	1.7	85	2			
111523 B	11.875	338.92137530	14.42356585				0.054	19.8	15.9						A 163.78	16.976	x
112316	10.097	341.24378058	49.48123159	0.3	−7.0	−3.2	0.009	3.7	3.9	5.0	3.9	3.7	163	6			n
114209 A	9.241	346.93060040	6.60476007	−3.6	46.7	3.8	0.017	6.8	5.0	5.3	8.9	7.0	136	1			l
114209 B	11.304	346.92843505	6.60443932		89.1	48.7	0.113	42.5	31.1		56.7	44.8			A 261.52	7.829	x
114207 C	9.349	346.92813984	6.59967696		−20.0	−9.6	0.016	7.8	5.3		10.8	8.0			A 205.68	20.305	l
114791 A	10.584	348.80167886	60.45052103	4.8	−5.1	1.1	0.013	3.1	3.2	2.3	2.2	2.0	123	2			l
114791 B	10.718	348.80229090	60.45028547				0.013	3.4	3.4						A 127.97	1.378	l
114791 E	11.281	348.79974687	60.44629091				0.033	8.6	8.9						A 192.70	15.610	l
114923	10.550	349.17414238	−36.58623523	13.4	170.3	−84.5	0.003	1.3	1.6	2.1	1.4	1.8	105	1			l R
115272 A	6.244	350.20888865	−50.30637951	9.7	45.4	−71.8	0.010	2.4	2.7	3.2	2.0	1.6	362	2			l U
115272 B	9.170	350.20842544	−50.30659296				0.148	33.9	37.9						A 234.19	1.313	x
115269 C	8.171	350.20497318	−50.31036640				0.041	11.8	13.4						A 212.10	16.942	n
116191 B	11.132	353.19324571	−16.75197193	89.9	382.3	−185.5	0.015	9.7	8.1	7.3	13.5	10.7	28	21			l R
116191 C	11.121	353.19323662	−16.75172354				0.015	9.5	7.8						B 357.99	0.895	l
117227 A	7.388	356.53348903	60.47317492	2.6	11.5	−1.5	0.002	0.6	0.6	0.6	0.8	0.6	269	3			
117227 B	9.091	356.53269823	60.47255382		20.3	2.0	0.010	2.7	2.5		3.7	2.9			A 212.11	2.640	
117226 C	9.372	356.53095817	60.46511095		−4.5	−1.7	0.008	3.3	3.2		4.3	3.8			A 188.79	29.376	l