Solar System Observations:

Tycho Observations: Astrometric and Photometric Catalogue

	Astrometric Data			Photometry			Standard Errors			Additional Data			
N	Epoch	α	δ	B_T	V_T	F	$\sigma_{\alpha*}$	σ_δ	$\rho^{\delta}_{\alpha*}$	θ	sgn(z)	σ_1	σ_2
	JD[TT]	deg	deg	mag	mag		mas	mas		deg		mas	mas
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	7 920.560 606 4	80.602 363 7	27.582 756 0	8.58	7.82	1	89.7	34.9	−0.17	351.09	−1	78.6	39.3
1	7 920.574 938 1	80.601 449 5	27.583 217 2	8.52	7.89	1	80.7	33.3	−0.24	351.11	−1	68.9	37.9
1	7 920.649 526 4	80.596 423 3	27.585 603 0	8.59	7.82	1	57.7	21.8	−0.14	351.31	−1	51.2	24.4
1	7 920.663 830 2	80.595 425 8	27.586 065 3	8.74	7.86	1	59.9	22.2	−0.12	351.47	−1	53.5	24.6
1	7 920.752 723 5	80.589 575 1	27.588 913 8	8.65	7.89	1	56.3	30.8	0.61	351.81	1	52.2	26.4
1	7 920.827 287 8	80.584 650 7	27.591 271 2	8.61	7.93	1	59.8	34.6	0.61	352.22	1	54.5	30.0
1	7 920.841 594 7	80.583 699 6	27.591 725 4	8.71	7.81	1	69.3	33.3	0.59	352.36	1	65.4	28.6
1	7 928.738 039 2	80.322 361 9	27.833 586 5	8.96	8.01	1	68.9	30.6	−0.38	27.03	1	59.5	32.8
1	7 928.752 384 3	80.322 352 6	27.834 011 1	8.84	8.03	1	65.4	29.5	−0.45	27.07	1	58.3	29.5
1	7 928.826 925 8	80.322 244 4	27.836 202 7	8.70	7.97	1	81.3	36.8	−0.45	27.37	1	72.2	37.0
1	7 928.841 257 1	80.322 206 1	27.836 634 5	8.79	8.01	1	87.5	38.1	−0.29	27.37	1	71.8	44.4
1	7 963.653 875 4	84.703 008 2	28.742 353 6	9.49	8.71	1	88.8	67.1	0.76	315.19	−1	95.3	40.8
1	7 963.668 163 4	84.706 431 1	28.742 682 1	9.41	8.55	1	73.4	47.8	0.65	315.24	−1	68.0	39.1
1	7 994.306 454 1	94.110 695 0	29.111 752 3	9.34	8.82	1	85.4	144.4	−0.61	38.96	−1	108.5	90.5
1	7 994.320 758 0	94.115 916 3	29.111 748 2	9.44	8.84	1	89.0	117.9	−0.69	38.91	−1	113.6	66.7
1	8 013.147 078 4	101.487 310 4	28.925 927 1	9.64	8.95	1	104.3	49.3	0.46	329.67	−1	90.9	50.3
1	8 275.832 864 3	210.478 455 3	−0.568 402 1	9.25	8.60	1	87.2	36.1	0.17	157.38	−1	72.2	43.0
1	8 275.907 420 8	210.496 434 0	−0.571 221 9	9.47	8.49	1	66.7	54.4	0.72	157.30	1	69.2	36.3
1	8 275.921 754 9	210.499 806 2	−0.571 788 7	9.26	8.77	1	69.9	71.2	0.71	157.40	1	69.7	50.5
1	8 298.832 450 9	214.818 497 4	−0.895 853 7	8.91	8.24	1	41.0	81.6	−0.49	234.66	−1	68.7	42.6
1	8 298.846 789 2	214.820 466 2	−0.895 853 3	9.15	8.30	1	46.1	83.7	−0.62	234.71	−1	78.1	38.9
1	8 476.774 846 6	211.140 391 4	−7.445 060 2	9.62	8.79	1	119.1	126.1	0.71	337.56	1	117.4	90.3
1	8 516.399 526 8	223.324 835 7	−13.469 732 4	10.24	9.16	1	151.0	82.8	−0.60	35.89	1	138.5	72.4
1	8 516.474 107 3	223.350 917 9	−13.480 600 9	9.94	9.02	1	155.4	67.0	−0.28	35.63	1	109.2	91.5
1	8 516.488 447 1	223.356 066 2	−13.482 736 5	9.91	9.13	1	139.7	63.5	−0.35	35.51	1	104.6	79.4
1	8 522.710 513 0	225.571 765 1	−14.378 736 2	10.37	9.16	1	130.6	100.9	−0.69	8.06	−1	108.0	88.3
1	8 522.962 841 8	225.662 957 7	−14.414 651 7	9.81	9.13	1	161.2	60.2	0.18	7.00	1	144.5	66.1
1	8 522.977 155 7	225.668 197 2	−14.416 676 7	10.06	9.32	1	162.2	66.3	0.26	7.00	1	141.0	73.5
1	8 523.051 725 9	225.695 270 3	−14.427 291 4	10.06	9.14	1	151.5	64.1	0.30	6.71	1	130.2	71.1
1	8 523.140 602 0	225.727 501 6	−14.439 880 4	9.73	9.26	1	135.9	61.9	0.38	6.18	1	113.8	68.4
1	8 523.154 944 9	225.732 646 6	−14.441 923 7	9.89	9.07	1	127.7	56.6	0.35	6.19	1	108.1	62.4
1	8 523.243 818 8	225.764 911 2	−14.454 545 0	9.52	9.22	1	256.5	109.3	0.32	5.81	1	221.6	119.7
1	8 709.278 719 7	302.129 083 9	−23.612 610 7	9.89	8.90	1	128.1	158.3	−0.71	204.46	−1	126.6	112.8
1	8 732.382 840 5	308.688 758 6	−23.379 853 7	10.11	9.11	1	93.4	85.0	0.72	122.53	−1	98.7	55.7
1	8 732.457 410 1	308.707 058 6	−23.379 813 5	9.90	9.04	1	54.6	105.8	0.59	122.40	1	98.2	47.6
1	8 732.471 742 2	308.710 552 1	−23.379 786 8	9.81	9.04	1	46.6	100.7	0.38	122.39	1	81.4	53.4
1	8 933.241 897 2	308.091 955 4	−28.427 666 6	9.87	9.33	1	91.2	176.1	0.53	305.56	1	152.7	89.5
1	8 970.754 957 2	319.550 680 6	−24.607 819 7	9.85	8.99	1	171.9	75.6	0.29	11.56	1	137.8	90.3
1	8 970.930 703 4	319.610 441 7	−24.587 252 0	10.12	9.40	1	209.6	138.4	−0.65	10.74	−1	192.2	114.3
1	8 971.019 612 9	319.640 795 4	−24.576 801 2	9.84	9.22	1	152.3	80.6	−0.63	10.32	−1	145.2	65.5
1	8 977.317 148 2	321.814 154 2	−23.822 853 9	9.86	9.54	1	217.3	83.7	0.30	341.44	−1	196.7	88.1
1	8 977.331 504 7	321.818 903 4	−23.821 136 6	10.10	9.36	1	236.7	98.6	−0.09	341.19	−1	184.3	126.0
1	8 977.680 929 8	321.940 981 8	−23.778 452 3	9.94	9.41	1	130.9	134.4	0.71	339.84	1	124.5	99.3
2	7 875.598 429 8	6.945 016 9	−18.834 577 3	9.81	9.52	1	171.3	113.8	−0.69	16.11	−1	168.0	83.8
2	7 900.033 446 2	11.355 183 5	−17.103 140 9	9.96	9.43	1	126.8	125.0	0.73	299.50	−1	139.5	78.2
2	8 154.192 248 3	128.017 625 9	−7.222 960 3	9.70	9.07	1	114.3	54.9	0.42	188.87	1	89.2	63.7
2	8 154.206 587 2	128.024 699 3	−7.224 833 5	10.00	9.01	1	120.2	56.0	0.39	188.73	1	96.1	64.6
2	8 154.281 137 7	128.061 199 1	−7.234 635 9	9.92	8.90	1	111.3	50.2	0.35	188.54	1	91.0	57.5
2	8 154.295 483 3	128.068 235 9	−7.236 541 9	9.59	9.07	1	106.1	48.5	0.37	188.42	1	86.2	55.6
2	8 154.547 811 6	128.191 948 0	−7.269 738 4	9.18	8.75	1	163.0	132.0	−0.71	187.46	−1	129.3	116.8
2	8 162.562 168 4	132.066 496 7	−8.346 085 8	9.53	8.64	2	266.2	120.6	0.49	153.21	−1	242.4	115.3
2	8 162.562 168 4	132.066 122 8	−8.346 272 6	9.46	8.72	2	291.6	134.7	0.58	153.21	−1	276.7	115.3
2	8 162.636 727 0	132.101 763 6	−8.356 484 9	10.15	9.12	1	119.6	109.7	0.73	152.87	1	130.2	68.6
2	8 162.651 065 7	132.108 570 8	−8.358 472 4	9.90	9.21	1	108.4	116.5	0.71	152.84	1	115.9	77.1
2	8 223.851 644 9	157.308 794 6	−16.417 838 0	9.62	8.69	1	86.9	36.0	0.18	157.49	−1	72.3	42.5
2	8 223.865 979 9	157.313 506 0	−16.419 275 7	9.65	8.88	1	106.1	43.9	0.17	157.53	−1	87.8	52.4
2	8 223.940 537 2	157.337 686 9	−16.426 798 5	9.34	8.55	1	64.8	51.6	0.73	157.36	1	67.3	34.1
2	8 251.838 668 9	164.688 313 8	−18.188 989 4	9.15	8.56	1	33.9	86.3	−0.24	251.06	−1	76.4	37.1
2	8 251.852 959 2	164.691 028 6	−18.189 169 6	9.36	8.53	1	33.7	84.8	−0.18	251.03	−1	73.5	38.3
2	8 389.064 313 3	162.545 071 8	15.923 602 1	9.26	8.68	1	63.2	63.7	−0.71	65.14	1	66.4	42.7
2	8 389.078 673 4	162.547 851 7	15.924 871 9	9.42	8.68	1	59.4	72.7	−0.74	65.12	1	77.5	37.4
2	8 420.607 088 2	170.528 332 7	16.713 033 5	9.84	9.17	1	92.3	90.4	0.71	339.58	1	89.4	66.0
2	8 420.621 413 4	170.532 703 1	16.712 662 1	9.90	9.19	1	114.6	88.8	0.71	339.57	1	116.0	61.4
2	8 729.067 376 5	275.890 603 1	17.465 917 0	10.14	9.60	1	120.5	324.5	0.00	123.07	1	192.0	203.7
2	8 788.764 860 5	269.329 989 2	24.876 691 2	10.53	9.39	1	68.5	163.6	0.29	83.16	−1	141.1	76.0
2	8 788.779 194 2	269.326 911 1	24.876 702 8	10.29	9.47	1	72.7	136.7	0.53	83.20	−1	102.7	82.0
2	8 788.868 085 4	269.308 048 6	24.877 302 8	9.85	9.22	1	73.5	205.0	0.16	83.51	−1	186.2	79.9
2	8 789.120 425 0	269.254 366 0	24.878 443 1	10.08	9.42	1	96.1	139.7	−0.66	84.59	1	115.7	87.6
2	8 789.134 750 4	269.251 279 3	24.878 511 6	10.21	9.67	1	94.5	166.9	−0.59	84.61	1	148.5	85.8
2	8 789.209 289 8	269.235 438 7	24.878 727 1	10.16	9.60	1	73.8	119.7	−0.61	85.00	1	103.0	67.7
2	8 789.223 652 4	269.232 385 3	24.878 807 3	10.28	9.73	1	70.1	131.9	−0.57	85.12	1	118.6	64.1
2	8 793.120 148 4	268.401 485 2	24.854 411 2	10.05	9.58	1	56.3	140.3	−0.15	101.22	1	119.7	65.2
2	8 793.297 930 4	268.363 752 7	24.851 405 5	10.11	9.65	1	96.4	111.4	0.71	101.86	−1	94.8	79.7
2	8 793.312 243 4	268.360 647 6	24.851 097 5	10.37	9.72	1	88.0	142.6	0.65	101.88	−1	134.6	70.5
4	8 084.983 596 1	44.609 053 4	10.266 422 0	9.22	8.22	1	70.7	27.3	−0.15	196.92	1	62.0	30.8
4	8 085.058 154 9	44.634 897 2	10.272 255 8	9.26	8.33	1	80.1	30.7	−0.17	196.83	1	70.9	34.2
4	8 085.072 488 9	44.639 905 4	10.273 368 1	9.13	8.50	1	78.3	30.9	−0.07	196.82	1	66.9	36.1
4	8 085.147 037 3	44.665 796 1	10.279 193 1	9.25	8.25	1	71.7	49.4	−0.69	196.56	−1	70.3	36.3
4	8 085.161 365 0	44.670 757 2	10.280 289 7	9.28	8.28	1	65.9	49.5	−0.69	196.61	−1	63.7	37.0
4	8 106.830 444 5	51.635 705 7	11.619 113 0	9.12	8.23	1	55.5	54.5	0.74	122.42	−1	63.5	31.8
4	8 106.844 757 7	51.639 895 6	11.619 796 6	8.97	8.27	1	35.4	72.1	0.49	122.46	1	62.8	35.4
4	8 106.919 343 5	51.661 640 5	11.623 145 8	9.08	8.23	1	64.6	134.8	0.45	122.32	1	114.0	68.3
4	8 136.166 732 9	58.579 392 6	12.308 940 5	8.72	7.91	1	55.3	27.0	−0.51	211.29	1	49.1	26.1
4	8 257.128 362 2	45.092 430 9	10.441 386 9	8.24	7.51	1	39.7	52.7	0.79	313.12	1	58.1	22.1
4	8 257.202 935 8	45.089 960 4	10.445 860 8	8.38	7.47	1	45.3	56.5	0.84	313.37	1	66.0	21.1
4	8 257.217 255 3	45.089 482 3	10.446 726 7	8.46	7.47	1	33.6	47.4	0.73	313.40	1	48.9	22.2
4	8 303.320 050 3	50.352 294 7	14.622 720 9	9.06	8.19	1	57.1	52.9	0.73	302.83	−1	61.8	33.5
4	8 303.334 367 0	50.355 728 7	14.624 274 9	9.21	8.25	1	61.7	57.2	0.73	302.91	−1	67.0	36.0
4	8 303.423 286 1	50.376 831 5	14.633 835 0	9.13	8.24	1	37.3	73.0	0.56	302.81	1	66.2	34.2
4	8 337.436 265 7	60.569 942 2	18.257 787 6	9.36	8.65	1	90.3	38.0	−0.30	23.68	1	77.7	42.2
4	8 337.450 566 1	60.574 957 5	18.259 225 9	9.32	8.49	1	82.8	34.7	−0.22	23.58	1	69.2	40.4
4	8 337.525 160 0	60.601 315 1	18.266 725 7	9.46	8.62	1	70.7	61.0	−0.72	23.37	−1	73.5	40.7
4	8 337.539 460 5	60.606 349 0	18.268 132 1	9.25	8.70	1	68.1	58.2	−0.72	23.22	−1	70.7	38.9
4	8 351.034 885 4	65.588 600 4	19.559 151 9	8.46	7.99	1	149.2	80.8	0.78	329.46	−1	155.5	48.1
4	8 351.212 663 5	65.657 067 2	19.575 167 4	9.29	8.48	1	61.5	74.2	0.69	328.82	1	69.4	47.3
4	8 351.226 983 5	65.662 565 7	19.576 444 6	9.21	8.44	1	62.9	65.7	0.73	328.64	1	72.0	39.2
4	8 545.690 089 2	152.718 381 4	14.137 781 8	9.37	8.44	1	74.6	54.7	−0.71	226.60	1	75.2	38.0
4	8 545.704 449 1	152.724 063 4	14.136 207 9	9.25	8.48	1	76.5	56.0	−0.71	226.51	1	77.1	39.0

	Astrometric Data			Photometry			Standard Errors			Additional Data			
N	Epoch JD[TT]	α deg	δ deg	B_T mag	V_T mag	F	$\sigma_{\alpha*}$ mas	σ_δ mas	$\rho^\delta_{\alpha*}$	θ deg	sgn(z)	σ_1 mas	σ_2 mas
1	2	3	4	5	6	7	8	9	10	11	12	13	14
4	8 545.778 992 9	152.753 887 1	14.127 823 1	9.08	8.35	1	81.1	63.5	−0.76	226.36	1	87.8	38.1
4	8 545.793 355 0	152.759 548 4	14.126 313 8	9.23	8.28	1	53.9	81.5	−0.67	226.31	−1	78.1	41.6
4	8 559.555 077 2	158.104 976 0	12.618 226 4	9.09	8.20	1	79.0	31.5	−0.18	170.21	−1	68.2	35.9
4	8 559.569 388 3	158.110 357 4	12.616 714 8	9.07	8.34	1	83.8	34.4	−0.21	170.12	−1	71.3	39.5
4	8 593.137 651 6	169.601 360 4	9.539 560 9	8.99	7.97	1	43.9	51.4	−0.72	246.34	1	53.7	29.0
4	8 593.151 948 9	169.605 659 8	9.538 538 7	8.84	7.97	1	43.9	52.4	−0.73	246.33	1	54.8	28.8
4	8 593.226 510 6	169.628 044 9	9.533 339 6	8.84	7.95	1	25.5	60.1	−0.45	246.32	−1	54.9	24.9
4	8 621.834 915 6	176.723 570 4	8.388 478 5	8.56	7.57	1	79.8	52.8	0.72	161.21	1	80.8	36.2
4	8 621.849 258 0	176.726 208 7	8.388 387 9	8.34	7.76	1	69.0	59.5	0.70	161.18	1	67.0	43.7
4	8 639.341 807 1	179.126 412 9	8.779 325 1	7.93	7.12	1	39.3	35.9	−0.80	230.29	1	46.5	18.2
4	8 639.356 146 6	179.127 608 7	8.780 047 4	8.07	7.27	1	42.3	36.9	−0.77	230.23	1	47.9	20.7
4	8 639.430 684 2	179.133 863 6	8.783 822 0	7.98	7.16	1	39.9	59.5	−0.76	230.54	−1	62.6	24.7
4	8 639.445 039 8	179.135 064 1	8.784 562 2	7.98	7.13	1	35.9	61.6	−0.61	230.49	−1	56.1	31.2
4	8 765.731 331 0	169.183 255 4	14.280 424 9	8.25	7.28	1	58.9	20.5	0.47	343.47	−1	56.4	18.8
4	8 765.745 656 2	169.185 688 8	14.278 592 2	8.22	7.30	1	66.9	22.7	0.54	343.50	−1	65.0	19.6
4	8 765.820 216 8	169.198 352 3	14.269 082 6	8.26	7.52	1	50.4	32.1	0.70	343.59	1	49.9	23.2
6	8 389.029 806 7	326.398 544 0	−7.652 571 2	10.92	9.86	1	180.1	133.1	0.69	118.16	−1	139.5	123.9
6	8 542.977 141 7	334.062 452 4	−24.727 741 4	9.70	8.77	1	83.1	67.9	0.70	303.43	−1	79.5	51.0
6	8 542.991 428 2	334.063 481 9	−24.728 089 1	9.70	8.67	1	76.6	62.4	0.70	303.50	−1	73.2	47.0
6	8 543.080 343 1	334.070 050 6	−24.730 234 6	9.53	8.76	1	44.8	96.2	0.38	303.68	1	76.5	52.0
6	8 559.418 790 2	336.364 797 6	−24.439 222 4	10.08	9.09	1	104.6	44.2	0.25	9.98	1	87.5	51.2
6	8 559.433 095 5	336.367 666 5	−24.438 453 5	9.89	9.08	1	107.4	43.9	0.20	10.00	1	91.6	50.4
6	8 559.507 677 9	336.382 732 0	−24.434 245 5	9.96	8.94	1	87.4	54.5	−0.64	10.20	−1	80.7	45.3
6	8 590.515 177 2	345.497 882 6	−20.949 784 7	10.80	9.48	1	120.5	116.8	0.71	293.37	−1	117.9	84.4
6	8 590.529 530 0	345.503 177 6	−20.947 511 5	10.77	9.80	1	191.8	266.1	0.76	293.41	−1	282.1	118.4
6	8 590.604 041 3	345.530 505 2	−20.935 621 4	10.07	9.65	1	63.5	154.2	−0.14	293.34	1	107.6	90.1
6	8 640.198 779 4	6.947 643 6	−10.790 614 1	10.39	9.57	1	164.5	108.5	0.64	306.14	−1	131.4	103.8
6	8 640.287 657 5	6.989 873 7	−10.769 789 9	10.10	9.47	1	117.5	268.2	0.31	306.06	1	190.9	157.0
7	8 417.551 987 0	342.117 968 0	−1.743 405 4	10.35	9.78	1	181.7	188.9	−0.71	199.77	−1	170.8	140.6
7	8 453.874 491 7	348.419 541 0	3.352 263 1	9.58	8.86	1	111.7	77.1	0.67	121.60	−1	85.9	74.3
7	8 463.918 156 3	348.846 397 7	4.335 261 6	9.70	8.65	1	141.5	142.2	0.72	162.90	1	127.0	109.8
7	8 463.932 476 7	348.846 535 1	4.336 481 7	9.67	8.63	1	117.2	88.6	0.69	162.88	1	113.9	65.6
7	8 464.021 365 1	348.847 197 9	4.343 960 0	9.85	8.85	1	104.2	42.4	−0.05	163.30	−1	85.7	51.6
7	8 464.095 926 4	348.847 694 4	4.350 249 4	9.92	8.75	1	116.8	46.8	0.00	163.64	−1	98.1	55.7
7	8 464.110 273 3	348.847 855 0	4.351 417 8	9.69	8.84	1	126.0	48.0	0.16	163.64	−1	111.5	53.6
7	8 550.892 281 1	337.504 707 5	0.551 877 1	9.16	8.34	1	72.0	33.8	0.56	332.09	−1	67.1	30.1
7	8 550.995 487 8	337.509 272 3	0.545 589 6	9.14	8.21	1	66.3	29.7	0.41	332.58	−1	57.7	31.2
7	8 551.070 052 5	337.512 572 3	0.541 076 5	9.47	8.29	1	62.0	54.1	0.75	332.81	1	67.8	33.0
7	8 551.084 368 5	337.513 220 2	0.540 192 2	9.27	8.28	1	67.5	56.6	0.76	332.82	1	74.0	33.7
7	8 560.416 911 1	338.324 472 8	0.110 213 0	9.38	8.50	1	80.7	34.5	0.23	12.92	1	65.0	41.7
7	8 560.491 465 6	338.333 911 3	0.107 903 0	9.32	8.34	1	137.0	65.8	0.46	13.21	1	96.1	83.2
7	8 622.326 880 3	358.437 577 7	4.095 341 6	9.99	9.16	1	126.6	53.2	0.14	17.99	1	97.8	68.2
7	8 622.341 178 5	358.444 155 9	4.097 344 3	10.28	9.22	1	97.1	88.0	−0.70	17.99	−1	91.8	66.1
7	8 683.631 865 8	30.896 967 5	14.288 359 6	10.25	9.75	1	166.5	93.9	0.56	1.09	1	135.1	95.7
7	8 683.809 629 7	31.000 322 2	14.317 834 9	9.98	9.43	1	197.3	106.3	0.54	0.38	1	165.3	107.0
7	8 683.987 415 8	31.104 005 1	14.347 280 4	10.42	9.66	1	175.6	96.2	−0.55	359.61	−1	146.1	96.9
7	8 691.542 639 7	35.542 599 6	15.571 006 6	10.52	9.62	1	264.4	113.0	0.23	327.73	−1	192.3	151.1
7	8 691.556 972 4	35.550 848 4	15.573 250 5	10.27	9.51	1	215.9	109.1	0.55	327.68	−1	195.4	100.8
7	8 691.645 879 6	35.603 592 1	15.587 306 7	10.25	9.53	1	203.5	94.8	0.39	327.33	−1	164.9	107.7
7	9 013.587 438 8	181.835 752 8	−8.822 665 3	10.19	9.23	1	132.1	64.8	−0.46	175.97	−1	109.7	69.4
7	9 013.676 324 4	181.833 961 0	−8.826 235 5	10.30	9.68	1	158.8	80.0	−0.48	176.34	−1	130.9	85.2
7	9 024.280 105 4	181.212 798 0	−9.065 948 8	10.50	9.70	1	136.3	195.6	−0.68	222.67	−1	185.2	106.2
902	7 993.238 793 0	94.504 347 0	23.471 795 7			1	31.2	31.4	−0.90	41.68	−1	41.8	10.3
902	8 150.644 699 9	128.279 361 9	19.155 592 0			1	41.5	17.7	−0.74	203.22	1	42.0	11.7
902	8 158.555 575 1	129.751 412 3	18.814 236 5			1	52.0	15.8	0.72	169.71	1	52.0	11.0
902	8 225.619 850 8	136.437 803 9	17.227 388 8			1	48.3	21.9	0.87	159.82	1	51.1	10.1
902	8 239.321 144 6	136.145 979 9	17.362 996 9			1	35.3	24.8	−0.90	217.11	1	41.0	9.5
902	8 239.395 714 7	136.144 412 4	17.363 631 8			1	42.5	30.9	−0.93	217.38	1	50.8	9.3
902	8 239.484 601 3	136.141 991 1	17.364 543 7			1	63.7	50.9	−0.97	217.73	−1	80.5	9.2
902	8 411.543 452 7	132.320 158 7	18.539 975 9			1	52.0	20.3	0.76	346.02	1	52.7	13.0
902	8 411.557 773 4	132.322 341 3	18.539 389 1			1	51.9	19.8	0.77	346.02	1	52.6	12.5
902	8 558.489 399 9	160.961 427 8	9.037 888 2			1	43.0	10.8	0.07	174.86	−1	41.4	11.2
902	8 636.766 588 4	165.997 370 5	7.333 984 9			1	47.0	41.0	−0.95	219.51	−1	60.9	9.6
902	8 762.990 138 4	157.660 032 1	10.680 316 8			1	39.3	20.1	0.83	339.04	1	41.6	10.5
902	8 811.506 636 7	162.873 679 9	8.476 568 2			1	62.0	13.1	0.56	354.89	1	61.4	11.0
902	8 959.131 331 3	189.659 916 8	−2.857 213 7			1	52.2	15.9	0.68	170.57	1	52.0	11.6
902	8 959.145 659 5	189.661 550 2	−2.857 822 7			1	61.6	16.6	0.73	170.51	1	61.7	11.4
902	9 026.488 628 0	194.056 581 8	−4.424 460 4			1	33.0	40.7	−0.93	229.43	−1	50.7	9.4
903	7 993.238 815 2	94.658 988 6	23.465 728 6			1	37.1	44.3	−0.78	41.74	−1	49.7	20.8
903	8 011.457 403 1	97.659 993 3	23.372 962 7			1	60.2	41.9	0.82	332.99	1	66.8	21.5
903	8 194.967 824 2	134.920 581 9	17.549 381 6			1	33.1	40.0	−0.81	239.02	1	46.2	16.8
903	8 225.619 830 9	136.310 954 0	17.269 003 9			1	52.2	34.2	0.74	159.79	1	53.8	22.4
903	8 239.321 163 1	135.909 257 9	17.438 402 8			1	41.2	26.9	−0.80	217.04	1	44.5	14.9
903	8 239.395 733 8	135.906 671 3	17.439 392 3			1	42.4	37.7	−0.89	217.31	−1	53.2	14.0
903	8 411.557 772 7	132.328 770 5	18.537 972 6			1	68.7	46.3	0.67	346.02	1	65.5	35.9
903	8 558.489 395 3	160.924 849 9	9.052 838 9			1	59.0	17.4	−0.05	174.86	−1	55.7	18.4
903	8 593.153 159 7	165.111 497 2	7.484 682 0			1	29.7	42.8	−0.78	245.67	1	46.0	17.3
903	8 593.227 727 1	165.120 232 9	7.481 262 2			1	27.6	62.1	−0.77	245.62	−1	63.4	17.3
903	8 624.767 864 0	166.250 968 9	7.170 486 8			1	44.9	20.6	0.67	168.09	1	44.2	15.6
903	8 762.990 137 0	157.663 643 8	10.675 709 5			1	45.4	41.3	0.71	339.04	1	45.1	29.4
903	8 959.131 322 2	189.598 278 6	−2.830 600 3			1	62.3	19.3	0.14	170.58	−1	58.5	20.3
904	7 967.959 422 8	295.489 275 8	−21.166 123 4	9.50	8.21	1	202.6	89.0	−0.46	205.42	1	183.5	87.4
904	7 967.973 760 1	295.490 301 4	−21.166 012 3	9.87	9.01	1	176.7	72.7	0.00	205.41	1	128.1	100.3
904	7 968.062 651 3	295.497 437 3	−21.165 646 9	10.66	8.96	1	220.8	90.3	0.05	205.17	1	156.2	127.5
904	7 968.137 214 5	295.503 273 6	−21.165 319 9	10.17	8.96	1	117.9	168.2	−0.72	204.93	−1	112.6	121.5
904	8 015.602 344 3	297.452 353 2	−20.883 580 4	10.03	8.90	1	153.6	191.4	−0.69	209.21	−1	166.8	127.3
904	8 144.543 081 9	290.586 741 7	−22.119 512 5	10.28	8.94	1	80.4	127.5	0.63	321.43	1	101.6	78.7
904	8 144.557 397 5	290.586 345 6	−22.119 650 3	10.13	8.99	1	107.2	132.4	0.72	321.43	1	136.3	72.2
904	8 163.664 145 6	290.416 913 3	−22.166 181 1	10.26	9.32	1	242.0	121.5	−0.51	33.33	1	212.3	118.9
904	8 163.738 698 9	290.416 326 4	−22.165 988 1	9.48	8.31	1	145.9	62.2	−0.24	33.49	1	104.2	84.6
904	8 393.368 926 5	309.407 392 6	−18.857 598 8	10.23	9.08	1	127.0	119.4	0.76	125.92	−1	146.3	67.0
904	8 393.472 137 8	309.408 889 8	−18.857 405 5	10.21	9.04	1	58.3	118.9	0.45	126.16	1	95.9	64.5
904	8 566.542 254 6	303.452 357 1	−20.440 083 3	10.27	9.33	1	206.7	82.4	−0.01	29.14	1	138.1	123.4
904	8 566.616 817 2	303.456 378 5	−20.438 822 2	10.16	8.91	1	98.4	140.1	−0.69	28.99	−1	104.0	96.2
904	8 566.631 117 6	303.457 142 2	−20.438 570 2	9.85	8.57	1	95.0	90.1	−0.74	28.87	−1	105.7	54.7

	Astrometric Data			Photometry			Standard Errors			Additional Data			
N	Epoch	α	δ	B_T	V_T	F	$\sigma_{\alpha*}$	σ_δ	$\rho^\delta_{\alpha*}$	θ	sgn(z)	σ_1	σ_2
	JD[TT]	deg	deg	mag	mag		mas	mas		deg		mas	mas
1	2	3	4	5	6	7	8	9	10	11	12	13	14
904	8 585.723 179 0	304.792 588 2	−20.154 754 3	9.64	8.54	1	131.0	69.7	0.53	315.31	−1	99.1	78.1
904	8 729.525 412 5	319.880 778 9	−16.376 516 8	10.27	9.18	1	138.1	159.5	0.82	123.18	−1	189.2	66.0
904	8 729.703 147 0	319.895 153 4	−16.373 405 6	10.50	9.18	1	126.6	226.5	0.72	122.77	1	229.0	86.3
904	8 760.000 846 6	321.144 251 4	−16.062 778 1	10.39	9.01	1	346.8	135.3	0.60	204.41	1	157.0	238.7
904	8 935.980 412 6	315.151 137 2	−18.049 203 2	10.28	9.13	1	74.1	145.3	0.62	300.90	1	138.5	60.9
906	7 965.220 480 0	280.180 209 0	−23.401 815 0			1	40.6	26.5	−0.81	216.76	1	44.1	14.3
906	7 965.309 370 7	280.182 605 0	−23.401 647 4			1	43.0	38.0	−0.87	216.52	−1	53.3	15.0
906	7 992.128 608 5	280.595 166 9	−23.385 245 8			1	41.1	37.9	0.89	133.96	−1	52.6	13.3
906	7 992.142 952 3	280.595 240 2	−23.385 218 8			1	35.3	30.9	0.85	133.97	−1	42.9	13.4
906	7 992.217 494 4	280.595 503 0	−23.385 165 7			1	30.1	36.4	0.85	134.11	1	43.3	13.4
906	7 992.231 834 3	280.595 588 9	−23.385 147 5			1	30.2	36.7	0.84	134.08	1	43.4	13.7
906	8 012.123 742 4	280.470 861 9	−23.401 464 1			1	42.0	20.8	−0.76	207.81	1	43.1	13.1
906	8 012.138 100 8	280.470 604 1	−23.401 503 2			1	42.6	21.0	−0.75	207.79	1	43.4	13.7
906	8 012.212 657 2	280.469 468 0	−23.401 599 9			1	38.2	26.9	−0.84	208.10	−1	42.9	13.1
906	8 141.344 883 2	276.280 041 4	−23.640 800 8			1	43.9	34.3	0.89	319.18	−1	52.4	13.3
906	8 141.433 784 5	276.279 309 1	−23.640 895 9			1	32.9	33.9	0.86	319.33	1	43.3	13.3
906	8 141.448 107 8	276.279 283 4	−23.640 896 1			1	33.1	34.2	0.85	319.28	1	43.6	13.5
906	8 165.869 806 5	276.381 041 2	−23.633 485 1			1	44.8	34.4	−0.87	40.52	1	52.8	14.1
906	8 165.884 125 8	276.381 142 6	−23.633 410 1			1	38.7	28.4	−0.83	40.46	1	43.7	14.1
906	8 165.958 697 8	276.382 378 6	−23.633 397 4			1	41.3	42.0	−0.86	40.44	−1	54.2	16.3
906	8 188.632 450 4	276.964 269 9	−23.605 785 1			1	39.0	27.4	0.82	320.96	−1	43.4	14.0
906	8 188.721 328 0	276.967 477 1	−23.605 555 8			1	42.3	41.6	0.86	320.60	1	54.7	16.3
906	8 313.860 646 8	284.005 294 9	−23.150 935 0			1	45.0	17.5	−0.60	200.54	1	43.8	14.3
906	8 330.035 580 5	284.616 258 5	−23.101 763 0			1	36.4	30.6	0.85	135.30	−1	43.5	13.7
906	8 330.110 148 5	284.618 620 2	−23.101 564 4			1	30.7	36.2	0.85	135.06	1	43.4	13.6
906	8 359.711 145 4	285.158 218 6	−23.063 415 3			1	40.4	26.0	−0.81	216.26	1	43.7	14.2
906	8 359.785 711 4	285.158 514 8	−23.063 395 5			1	39.7	25.8	−0.82	216.36	1	43.3	13.7
906	8 502.526 286 7	280.970 275 8	−23.437 086 9			1	55.8	27.4	−0.73	27.76	1	56.5	18.4
906	8 502.615 171 5	280.969 120 8	−23.437 271 0			1	38.8	27.5	−0.83	28.06	−1	43.5	13.6
906	8 502.629 524 9	280.968 893 7	−23.437 289 0			1	38.9	28.1	−0.82	28.04	−1	43.6	14.2
906	8 502.704 056 7	280.967 839 4	−23.437 359 1			1	38.8	27.8	−0.83	28.37	−1	43.6	13.6
906	8 572.302 856 4	282.128 508 3	−23.340 164 8			1	45.5	16.4	−0.55	18.04	1	44.0	14.2
906	8 572.317 172 9	282.129 201 6	−23.340 120 0			1	46.0	16.6	−0.51	17.97	1	44.1	14.9
906	8 572.391 737 4	282.132 622 9	−23.339 854 0			1	53.6	18.5	−0.65	17.63	1	53.0	14.2
906	8 572.406 079 6	282.133 194 5	−23.339 784 5			1	38.3	14.2	−0.33	17.46	1	35.2	14.6
906	8 572.480 632 8	282.136 724 5	−23.339 526 8			1	55.2	29.9	−0.74	17.26	−1	56.1	19.8
906	8 572.658 422 0	282.144 879 2	−23.338 931 0			1	51.8	23.6	−0.77	16.49	−1	53.0	14.6
906	8 572.672 779 1	282.145 455 0	−23.338 846 7			1	52.0	23.4	−0.78	16.39	−1	53.2	14.4
906	8 572.761 650 6	282.149 567 0	−23.338 528 4			1	43.4	21.3	−0.74	15.97	−1	44.0	14.2
906	8 577.294 895 1	282.364 149 6	−23.321 324 1			1	55.0	13.7	0.02	355.58	−1	53.0	14.2
906	8 577.369 463 2	282.367 662 1	−23.321 019 8			1	59.9	17.9	−0.09	355.29	−1	56.6	18.9
906	8 577.547 234 4	282.376 536 7	−23.320 324 7			1	46.6	13.6	−0.03	354.58	−1	44.0	14.4
906	8 577.636 117 2	282.380 838 1	−23.319 997 5			1	45.3	16.1	0.53	354.16	1	43.7	14.1
906	8 577.650 455 1	282.381 550 3	−23.319 925 1			1	45.5	16.4	0.53	354.10	1	43.9	14.3
906	8 577.739 346 0	282.385 817 4	−23.319 605 3			1	46.0	17.0	0.55	353.64	1	44.4	14.7
906	8 706.598 937 9	289.336 147 6	−22.645 600 8			1	50.9	30.7	−0.81	213.78	1	54.5	16.8
906	8 706.613 295 0	289.336 703 7	−22.645 685 5			1	43.7	25.7	−0.77	213.83	1	45.4	15.8
906	8 706.687 839 7	289.338 380 6	−22.645 336 3			1	36.5	30.9	−0.84	213.64	−1	43.5	13.9
906	8 753.427 566 6	289.524 852 0	−22.644 656 3			1	45.1	18.3	−0.63	201.94	1	44.1	14.6
906	8 753.441 919 5	289.524 554 4	−22.644 679 1			1	46.4	18.9	−0.59	201.87	1	44.8	15.8
906	9 047.246 704 6	292.755 667 9	−22.223 577 1			1	55.3	14.2	−0.12	186.24	1	53.2	14.6
906	9 047.335 579 8	292.759 790 2	−22.223 001 6			1	73.1	17.5	−0.58	185.88	−1	72.3	14.5
906	9 047.349 909 9	292.760 563 6	−22.222 963 0			1	54.6	16.7	−0.53	185.71	−1	53.3	14.5
906	9 058.696 110 2	293.243 969 4	−22.157 229 5			1	40.4	30.2	0.81	138.16	−1	45.3	15.8
906	9 058.859 615 9	293.250 107 0	−22.156 488 6			1	46.3	46.9	0.91	137.61	1	62.7	14.3
906	9 058.873 927 1	293.250 668 6	−22.156 408 6			1	60.8	59.2	0.94	137.61	1	82.3	14.7
907	7 991.076 911 9	285.849 088 3	−21.773 487 1			1	82.2	57.3	0.67	130.88	−1	75.5	46.6
907	8 013.114 944 6	285.793 059 6	−21.772 385 0			1	70.5	32.9	−0.51	208.34	1	64.1	31.2
907	8 013.189 498 3	285.792 436 1	−21.772 426 4			1	69.7	31.7	−0.41	208.58	1	60.0	33.7
907	8 143.033 100 2	282.945 174 4	−22.055 833 9			1	57.4	75.0	0.70	320.16	1	74.4	41.1
907	8 165.085 359 8	282.893 948 0	−22.074 032 3			1	67.2	73.3	−0.77	37.77	−1	84.6	37.0
907	8 314.660 056 7	287.463 096 0	−21.672 829 9			1	85.2	33.2	−0.09	196.47	1	73.8	38.2
907	8 314.823 484 7	287.467 586 5	−21.672 349 9			1	75.8	50.2	−0.69	195.78	−1	74.1	37.2
907	8 314.837 827 7	287.467 897 9	−21.672 262 5			1	85.4	65.1	−0.69	195.82	−1	81.4	49.5
907	8 314.912 370 5	287.469 990 8	−21.671 990 1			1	66.8	51.9	−0.69	195.57	−1	63.1	39.8
907	8 329.132 625 1	287.815 356 9	−21.629 949 3			1	60.3	41.6	0.71	136.60	−1	60.5	29.2
907	8 329.146 910 2	287.815 753 3	−21.629 859 2			1	66.8	44.9	0.69	136.53	−1	65.2	33.4
907	8 329.221 479 8	287.817 187 4	−21.629 745 1			1	67.2	45.7	0.70	136.31	−1	66.1	33.3
907	8 329.235 789 3	287.817 575 5	−21.629 622 7			1	45.7	64.6	0.69	136.29	1	63.3	33.6
907	8 360.154 878 0	288.187 322 0	−21.578 400 6			1	48.6	55.3	−0.73	215.49	−1	59.0	31.2
907	8 493.474 961 4	285.509 258 2	−21.874 204 7			1	115.0	48.4	−0.22	348.18	−1	94.9	57.3
907	8 493.638 452 6	285.506 430 7	−21.874 523 3			1	118.3	53.2	−0.33	348.88	−1	93.6	63.5
907	8 493.652 749 3	285.506 198 5	−21.874 561 8			1	110.4	39.2	0.04	348.89	−1	99.9	43.2
907	8 493.727 319 1	285.504 979 9	−21.874 720 3			1	68.0	26.8	−0.13	349.31	−1	58.8	30.6
907	8 493.741 629 9	285.504 623 6	−21.874 776 7			1	62.8	38.0	0.64	349.39	1	58.6	31.2
907	8 493.816 221 2	285.503 515 6	−21.874 894 8			1	68.9	35.6	0.63	349.63	1	65.9	28.8
907	8 493.830 510 5	285.503 216 8	−21.874 908 6			1	70.3	37.3	0.63	349.68	1	67.0	30.4
907	8 500.927 069 5	285.393 853 3	−21.889 500 7			1	70.1	27.9	−0.27	19.93	1	62.1	30.3
907	8 501.193 731 9	285.390 289 2	−21.890 039 0			1	90.1	82.1	−0.71	21.02	−1	89.5	58.4
907	8 501.282 621 2	285.389 041 5	−21.890 212 9			1	61.5	50.1	−0.71	21.30	−1	62.6	34.5
907	8 536.778 652 3	285.258 501 7	−21.923 900 9			1	64.1	50.8	0.73	311.01	−1	67.1	33.0
907	8 536.853 219 7	285.258 972 2	−21.923 936 7			1	40.4	64.7	0.66	311.02	1	61.3	32.1
907	8 570.703 490 2	285.814 862 8	−21.888 009 1			1	144.0	59.9	−0.14	23.29	1	116.5	73.3
907	8 570.895 600 6	285.819 872 0	−21.887 611 4			1	62.1	59.5	−0.71	22.49	−1	62.6	41.6
907	8 570.984 482 2	285.822 055 1	−21.887 353 4			1	63.8	55.6	−0.71	22.06	−1	64.9	38.4
907	8 579.947 407 3	286.070 121 1	−21.866 526 0			1	75.7	29.7	0.11	342.89	−1	65.5	34.1
907	8 580.050 616 0	286.073 237 6	−21.866 267 9			1	155.9	62.3	0.06	342.39	−1	131.5	73.8
907	8 580.214 056 4	286.078 184 3	−21.865 811 2			1	70.2	50.7	0.70	341.87	1	69.7	36.3
907	8 580.228 415 1	286.078 634 5	−21.865 766 7			1	69.1	49.1	0.70	341.78	1	68.8	34.9
907	8 734.320 437 1	290.522 171 1	−21.349 189 8			1	58.9	46.8	0.73	130.39	−1	61.3	30.9
907	8 734.409 359 7	290.522 062 0	−21.349 253 1			1	53.1	79.7	0.73	130.59	1	81.4	35.6
907	8 753.708 199 7	290.397 112 8	−21.361 141 5			1	79.5	67.9	−0.72	202.43	−1	81.6	46.2
907	8 931.561 952 3	287.996 133 6	−21.709 451 4			1	53.6	71.1	0.73	316.99	1	73.3	35.8
907	9 046.800 875 1	292.041 429 5	−21.216 032 9			1	83.1	34.4	0.26	188.18	1	71.3	38.8
907	9 046.815 202 1	292.041 907 9	−21.215 987 9			1	77.1	33.9	0.32	188.12	1	64.4	38.4
907	9 058.695 793 5	292.352 151 9	−21.170 247 9			1	85.5	53.6	0.66	138.48	−1	80.7	42.9
907	9 058.770 401 1	292.353 863 6	−21.170 072 3			1	54.7	68.5	0.74	138.28	1	73.1	34.2
907	9 058.784 714 2	292.354 150 4	−21.170 008 2			1	50.0	69.5	0.69	138.24	1	66.9	37.8