

AXD: Total of **88** orbits. $\lambda_o = 140^\circ$, $\lambda_g - \lambda_o = 146.6^\circ$, $\beta_g = 77.2^\circ$, $\Delta r = 3^\circ$, $\Delta \lambda_o = 5^\circ$, $\theta = 0^\circ$. This activity has been assumed to be the regular KCG but it is clearly distinct from the KCG.

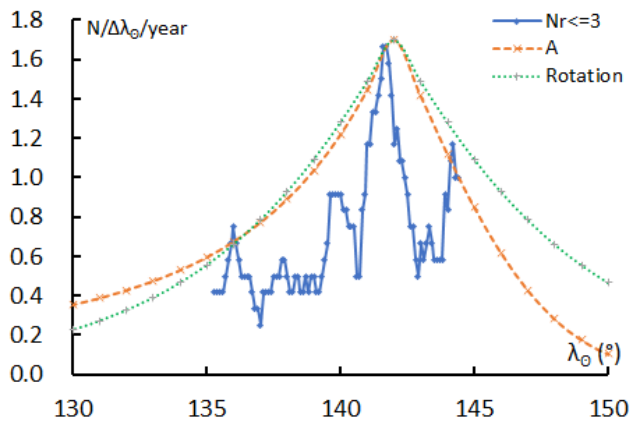
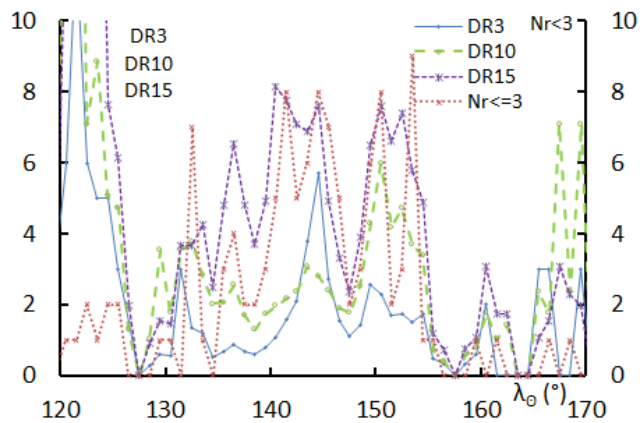
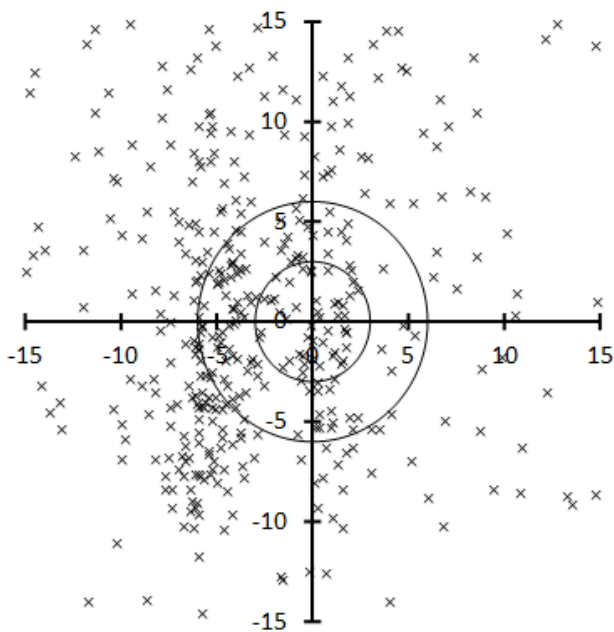


Table 1 – Number per year.

Year	N	Year	N
2007	21	2013	8
2008	2	2014	2
2009	7	2015	6
2010	7	2016	7
2011	7	2017	3
2012	9	2018	9

Table 2 – Activity profiles.

	λ_o	Max
Nr<=3	141.5	8
DR3	143.5	3.8
DR10	143.5	3.1
DR15	140.5	8.2

Table 3 – Evolution of the orbital parameters during the activity period.

λ_o	$\lambda_g - \lambda_o$	β_g	α_g	δ_g	v_g	e	q	i	ω	Ω	λ_π	β_π	a
125	152.3	55.8	274.9	32.5	17.6	0.676	0.946	23.2	214.0	125.0	336.8	-12.7	2.92
126	152.1	57.0	275.3	33.8	17.7	0.677	0.949	23.7	213.1	126.0	336.8	-12.7	2.93
127	151.9	58.3	275.7	35.0	17.9	0.677	0.952	24.3	212.3	127.0	336.9	-12.7	2.94
128	151.7	59.5	276.1	36.3	18.1	0.677	0.955	24.8	211.4	128.0	337.0	-12.6	2.95
129	151.5	60.7	276.4	37.5	18.2	0.676	0.959	25.3	210.4	129.0	337.0	-12.5	2.96
130	151.2	62.0	276.7	38.8	18.4	0.675	0.962	25.8	209.5	130.0	337.0	-12.4	2.96
131	150.9	63.2	277.0	40.0	18.5	0.675	0.965	26.4	208.5	131.0	337.0	-12.2	2.97
132	150.6	64.4	277.2	41.3	18.7	0.674	0.968	26.9	207.5	132.0	336.9	-12.1	2.97
133	150.3	65.7	277.4	42.6	18.9	0.672	0.972	27.4	206.5	133.0	336.9	-11.8	2.96
134	149.9	66.9	277.5	43.8	19.0	0.671	0.975	27.9	205.4	134.0	336.8	-11.6	2.96
135	149.5	68.1	277.6	45.0	19.2	0.669	0.978	28.4	204.4	135.0	336.7	-11.3	2.95
136	149.0	69.3	277.6	46.3	19.4	0.667	0.981	28.8	203.3	136.0	336.6	-11.0	2.95
137	148.5	70.6	277.6	47.5	19.5	0.665	0.984	29.3	202.1	137.0	336.5	-10.6	2.94
138	148.0	71.8	277.5	48.7	19.7	0.663	0.987	29.8	200.9	138.0	336.4	-10.2	2.93
139	147.3	73.0	277.3	50.0	19.8	0.660	0.990	30.3	199.7	139.0	336.2	-9.8	2.91
140	146.5	74.2	277.1	51.2	20.0	0.657	0.992	30.7	198.5	140.0	336.0	-9.3	2.90
141	145.7	75.4	276.8	52.4	20.2	0.654	0.995	31.2	197.2	141.0	335.9	-8.8	2.88
142	144.6	76.6	276.4	53.6	20.3	0.651	0.998	31.6	195.9	142.0	335.7	-8.3	2.86
143	143.4	77.8	275.9	54.7	20.5	0.648	1.000	32.0	194.6	143.0	335.4	-7.7	2.84
144	141.9	79.0	275.3	55.9	20.6	0.645	1.002	32.5	193.2	144.0	335.2	-7.0	2.82
145	140.0	80.2	274.6	57.0	20.8	0.641	1.004	32.9	191.8	145.0	334.9	-6.4	2.80

Table 3 – Continued, evolution of the orbital parameters during the activity period.

λ_{θ}	$\lambda_g - \lambda_{\theta}$	β_g	α_g	δ_g	ν_g	e	q	i	ω	Ω	λ_{Π}	β_{Π}	a
146	137.6	81.4	273.8	58.1	21.0	0.637	1.006	33.3	190.3	146.0	334.7	-5.7	2.77
147	134.5	82.6	272.9	59.2	21.1	0.633	1.007	33.7	188.9	147.0	334.4	-4.9	2.75
148	130.3	83.7	271.8	60.3	21.3	0.629	1.008	34.1	187.3	148.0	334.1	-4.1	2.72
149	124.3	84.8	270.6	61.3	21.4	0.625	1.009	34.5	185.8	149.0	333.8	-3.3	2.69
150	115.3	85.8	269.2	62.3	21.6	0.621	1.010	34.9	184.2	150.0	333.4	-2.4	2.67
151	101.4	86.6	267.7	63.3	21.8	0.617	1.011	35.3	182.5	151.0	333.0	-1.4	2.64
152	80.9	87.1	266.0	64.2	21.9	0.612	1.011	35.6	180.8	152.0	332.7	-0.5	2.61
153	56.0	87.2	264.1	65.1	22.1	0.608	1.011	36.0	179.1	153.0	332.2	0.6	2.58
154	34.4	86.7	262.0	65.9	22.3	0.604	1.010	36.3	177.3	154.0	331.8	1.6	2.55
155	19.6	85.9	259.7	66.6	22.4	0.599	1.009	36.7	175.4	155.0	331.3	2.7	2.52
156	10.0	84.9	257.2	67.3	22.6	0.595	1.007	37.0	173.6	156.0	330.8	3.9	2.49
157	3.6	83.9	254.5	67.9	22.7	0.590	1.006	37.3	171.6	157.0	330.3	5.1	2.45
158	359.1	82.7	251.6	68.4	22.9	0.586	1.003	37.6	169.6	158.0	329.8	6.3	2.42
159	355.9	81.6	248.5	68.8	23.1	0.582	1.000	37.9	167.6	159.0	329.2	7.6	2.39
160	353.4	80.4	245.3	69.1	23.2	0.578	0.997	38.2	165.5	160.0	328.5	8.9	2.36