KCG (#0012): Total of **283** orbits. $\lambda_{\Theta} = 142°$, $\lambda_g - \lambda_{\Theta} = 168.0°$, $\beta_g = 74.0°$, $\Delta r = 3°$, $\Delta\lambda_{\Theta} = 12°$, $\theta = -20°$. 2014 KCG were obstructed by bad weather in Japan. SonotaCo net observers missed the KCG maximum. The maximum of KCG occurs between $\lambda_{\Theta} = 140°$ and $145°$.
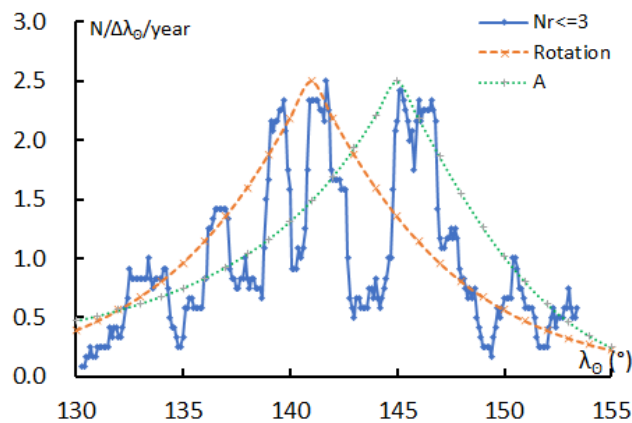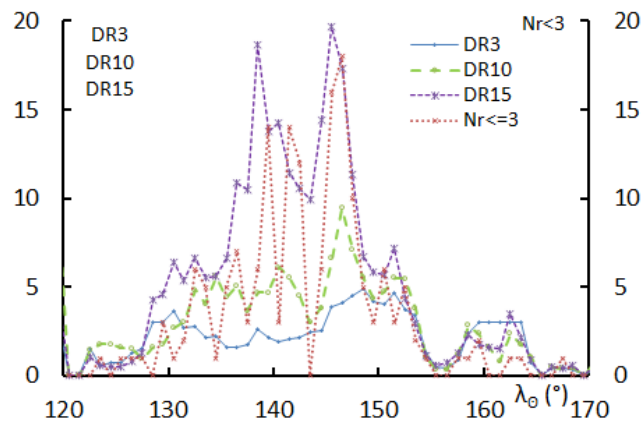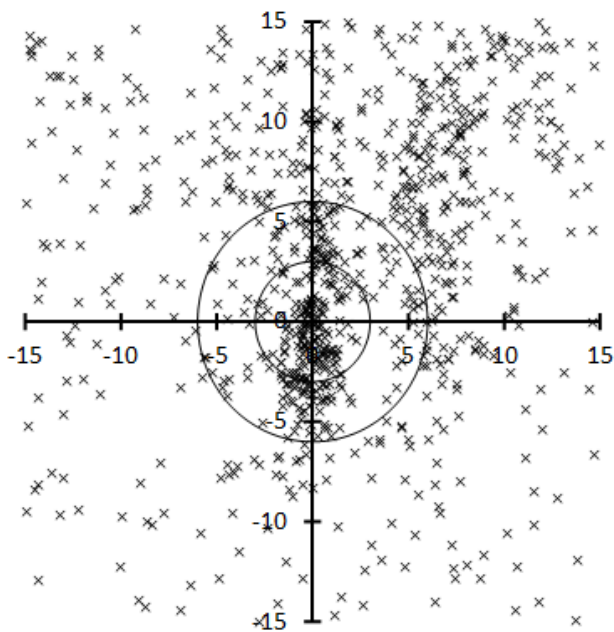

Table 1 – Number per year.

Year	N	Year	N
2007	135	2013	20
2008	2	2014	93
2009	5	2015	4
2010	8	2016	5
2011	2	2017	0
2012	7	2018	2

Table 2 – Activity profiles.

	λ_{Θ}	Max
Nr<=3	146.5	18
DR3	148.5	4.9
DR10	146.5	9.5
DR15	145.5	19.7

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

λ_{Θ}	$\lambda_g - \lambda_{\Theta}$	β_g	α_g	δ_g	v_g	e	q	i	ω	Ω	λ_{Π}	β_{Π}	a
125	153.2	61.7	275.0	38.4	19.4	0.719	0.957	27.1	210.3	125.0	332.5	–13.3	3.40
126	153.7	62.3	275.8	39.1	19.6	0.719	0.958	27.5	210.1	126.0	333.2	–13.4	3.41
127	154.1	63.0	276.5	39.8	19.8	0.719	0.959	27.9	209.8	127.0	333.9	–13.5	3.41
128	154.6	63.6	277.3	40.5	20.0	0.719	0.960	28.4	209.6	128.0	334.5	–13.6	3.41
129	155.1	64.3	278.1	41.2	20.1	0.718	0.961	28.8	209.3	129.0	335.2	–13.6	3.41
130	155.6	64.9	278.8	41.9	20.3	0.718	0.961	29.2	209.1	130.0	335.9	–13.7	3.41
131	156.2	65.5	279.6	42.7	20.5	0.717	0.962	29.6	208.8	131.0	336.5	–13.8	3.40
132	156.7	66.2	280.3	43.4	20.7	0.716	0.963	30.1	208.5	132.0	337.2	–13.8	3.40
133	157.3	66.8	281.0	44.1	20.8	0.715	0.964	30.5	208.2	133.0	337.8	–13.9	3.39
134	158.0	67.4	281.7	44.9	21.0	0.714	0.965	30.9	207.9	134.0	338.4	–13.9	3.38
135	158.7	68.0	282.4	45.6	21.2	0.713	0.966	31.3	207.6	135.0	339.1	–13.9	3.37
136	159.4	68.7	283.1	46.4	21.4	0.712	0.967	31.8	207.3	136.0	339.7	–14.0	3.36
137	160.1	69.3	283.7	47.1	21.5	0.710	0.968	32.2	206.9	137.0	340.3	–14.0	3.34
138	160.9	69.9	284.4	47.9	21.7	0.709	0.969	32.6	206.6	138.0	340.9	–14.0	3.33
139	161.7	70.5	285.0	48.7	21.9	0.707	0.970	33.1	206.2	139.0	341.4	–14.0	3.31
140	162.6	71.1	285.6	49.4	22.1	0.705	0.971	33.5	205.9	140.0	342.0	–13.9	3.29
141	163.6	71.7	286.2	50.2	22.2	0.703	0.972	33.9	205.5	141.0	342.6	–13.9	3.27
142	164.6	72.3	286.7	51.0	22.4	0.700	0.973	34.4	205.1	142.0	343.2	–13.9	3.25
143	165.7	72.9	287.3	51.8	22.6	0.698	0.975	34.8	204.7	143.0	343.7	–13.8	3.23
144	166.8	73.5	287.8	52.6	22.7	0.695	0.976	35.2	204.3	144.0	344.3	–13.7	3.20
145	168.1	74.1	288.3	53.4	22.9	0.693	0.977	35.7	203.9	145.0	344.8	–13.7	3.18

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

λ_Θ	$\lambda_g - \lambda_\Theta$	β_g	α_g	δ_g	v_g	e	q	i	ω	Ω	λ_Π	β_Π	a
146	169.4	74.6	288.8	54.2	23.1	0.690	0.978	36.1	203.5	146.0	345.3	−13.6	3.15
147	170.8	75.2	289.3	55.0	23.3	0.687	0.979	36.5	203.0	147.0	345.8	−13.5	3.12
148	172.3	75.7	289.7	55.8	23.4	0.683	0.980	37.0	202.6	148.0	346.4	−13.3	3.10
149	174.0	76.3	290.1	56.6	23.6	0.680	0.981	37.4	202.1	149.0	346.9	−13.2	3.07
150	175.8	76.8	290.5	57.4	23.8	0.677	0.983	37.8	201.6	150.0	347.4	−13.0	3.04
151	177.7	77.3	290.8	58.2	24.0	0.673	0.984	38.2	201.1	151.0	347.9	−12.9	3.01
152	179.8	77.8	291.1	59.0	24.1	0.669	0.985	38.7	200.6	152.0	348.3	−12.7	2.98
153	182.1	78.3	291.4	59.8	24.3	0.665	0.986	39.1	200.1	153.0	348.8	−12.5	2.95
154	184.5	78.8	291.7	60.7	24.5	0.661	0.987	39.5	199.5	154.0	349.3	−12.3	2.92
155	187.2	79.2	291.9	61.5	24.7	0.657	0.988	40.0	198.9	155.0	349.7	−12.0	2.88
156	190.0	79.7	292.0	62.3	24.8	0.653	0.990	40.4	198.4	156.0	350.2	−11.8	2.85
157	193.2	80.0	292.1	63.1	25.0	0.649	0.991	40.8	197.8	157.0	350.6	−11.5	2.82
158	196.5	80.4	292.2	63.9	25.2	0.644	0.992	41.3	197.2	158.0	351.1	−11.2	2.79
159	200.1	80.7	292.2	64.8	25.4	0.640	0.993	41.7	196.5	159.0	351.5	−10.9	2.75
160	203.9	81.0	292.1	65.6	25.5	0.635	0.994	42.1	195.9	160.0	351.9	−10.6	2.72