

**AAN (#0110):** Total of 36 orbits.  $\lambda_o = 312^\circ$ ,  $\lambda_g - \lambda_o = 210.6^\circ$ ,  $\beta_g = -17.7^\circ$ ,  $\Delta r = 3^\circ$ ,  $\Delta \lambda_o = 10^\circ$ .

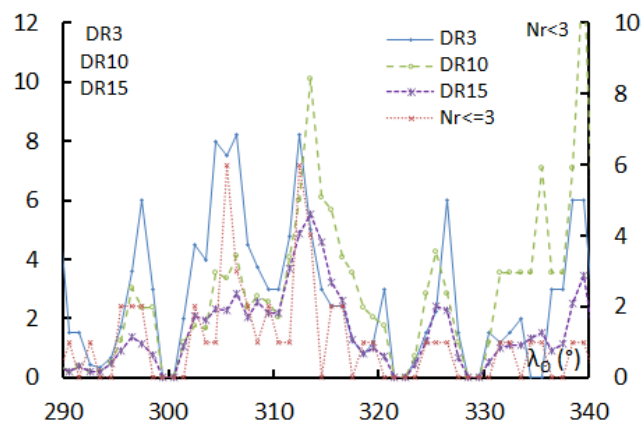
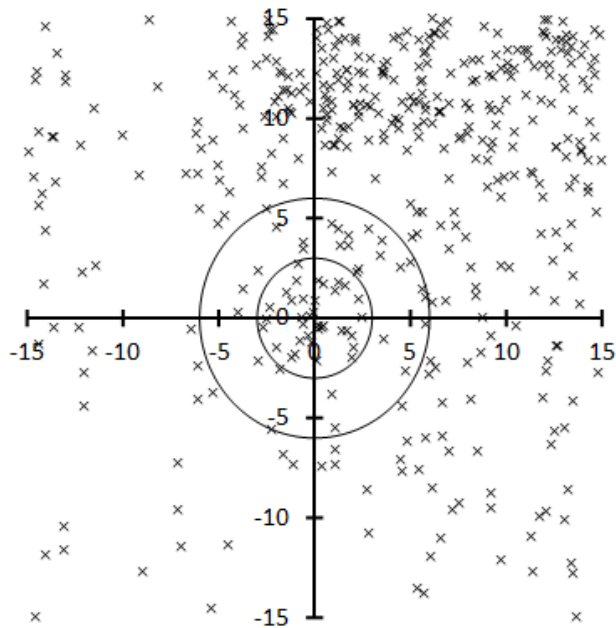


Table 1 – Number per year.

Year	N	Year	N
2007	0	2013	3
2008	0	2014	1
2009	4	2015	1
2010	6	2016	3
2011	5	2017	6
2012	7	2018	0

Table 2 – Activity profiles.

	$\lambda_o$	Max
$Nr \leq 3$	305.5	6
DR3	306.5	8.2
DR10	313.5	10.1
DR15	313.5	5.5

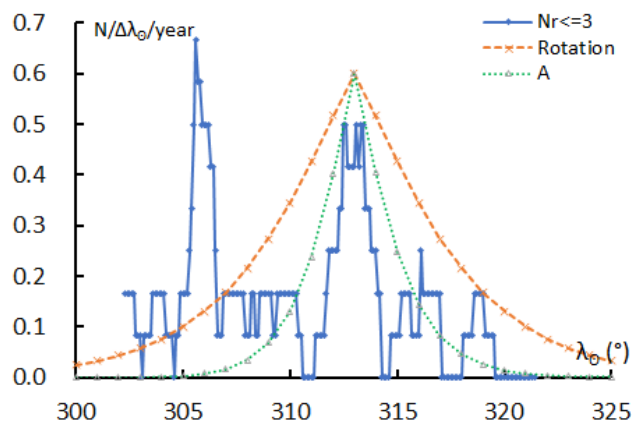


Table 3 – Evolution of the orbital parameters during the activity period.

$\lambda_o$	$\lambda_g - \lambda_o$	$\beta_g$	$\alpha_g$	$\delta_g$	$v_g$	$e$	$q$	$i$	$\omega$	$\Omega$	$\lambda_{\pi}$	$\beta_{\pi}$	$a$
300	211.0	-16.7	147.2	-4.5	44.0	0.960	0.130	55.8	140.6	120.0	275.2	31.6	3.23
301	211.0	-16.7	148.0	-4.9	44.0	0.960	0.131	55.9	140.4	121.0	276.2	31.8	3.26
302	211.0	-16.8	148.9	-5.3	44.0	0.960	0.131	56.0	140.3	122.0	277.1	32.0	3.28
303	210.9	-16.9	149.7	-5.7	44.1	0.960	0.132	56.1	140.1	123.0	278.0	32.2	3.31
304	210.9	-17.0	150.6	-6.1	44.1	0.960	0.133	56.2	139.9	124.0	278.9	32.4	3.33
305	210.9	-17.0	151.5	-6.5	44.1	0.960	0.134	56.3	139.7	125.0	279.8	32.6	3.36
306	210.9	-17.1	152.3	-6.9	44.1	0.960	0.135	56.5	139.5	126.0	280.8	32.7	3.39
307	210.9	-17.2	153.2	-7.3	44.1	0.960	0.136	56.6	139.4	127.0	281.7	32.9	3.42
308	210.8	-17.3	154.0	-7.8	44.2	0.960	0.137	56.7	139.2	128.0	282.6	33.1	3.45
309	210.8	-17.3	154.8	-8.2	44.2	0.960	0.138	56.8	139.0	129.0	283.5	33.3	3.48
310	210.8	-17.4	155.7	-8.6	44.2	0.960	0.139	56.9	138.8	130.0	284.4	33.5	3.51
311	210.8	-17.5	156.5	-9.0	44.2	0.960	0.140	57.0	138.6	131.0	285.4	33.7	3.54
312	210.8	-17.6	157.4	-9.5	44.3	0.960	0.141	57.1	138.4	132.0	286.3	33.9	3.57
313	210.7	-17.6	158.2	-9.9	44.3	0.960	0.143	57.2	138.2	133.0	287.2	34.0	3.61
313.1	210.7	-17.7	158.3	-9.9	44.3	0.960	0.143	57.2	138.2	133.1	287.3	34.1	3.61
313.2	210.7	-17.7	158.4	-10.0	44.3	0.960	0.143	57.2	138.2	133.2	287.4	34.1	3.61
313.3	210.7	-17.7	158.5	-10.0	44.3	0.960	0.143	57.2	138.2	133.3	287.5	34.1	3.62
313.4	210.7	-17.7	158.6	-10.1	44.3	0.961	0.143	57.3	138.2	133.4	287.6	34.1	3.62
313.5	210.7	-17.7	158.7	-10.1	44.3	0.961	0.143	57.3	138.1	133.5	287.7	34.1	3.62
313.6	210.7	-17.7	158.7	-10.2	44.3	0.961	0.143	57.3	138.1	133.6	287.7	34.2	3.63
313.7	210.7	-17.7	158.8	-10.2	44.3	0.961	0.143	57.3	138.1	133.7	287.8	34.2	3.63

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

$\lambda_{\theta}$	$\lambda_g - \lambda_{\theta}$	$\beta_g$	$\alpha_g$	$\delta_g$	$v_g$	$e$	$q$	$i$	$\omega$	$\Omega$	$\lambda_{\Pi}$	$\beta_{\Pi}$	$a$
313.8	210.7	-17.7	158.9	-10.2	44.3	0.961	0.143	57.3	138.1	133.8	287.9	34.2	3.63
313.9	210.7	-17.7	159.0	-10.3	44.3	0.961	0.143	57.3	138.1	133.9	288.0	34.2	3.64
314	210.7	-17.7	159.1	-10.3	44.3	0.961	0.144	57.3	138.1	134.0	288.1	34.2	3.64
315	210.7	-17.8	159.9	-10.8	44.3	0.961	0.145	57.4	137.9	135.0	289.0	34.4	3.67
316	210.7	-17.9	160.8	-11.2	44.4	0.961	0.146	57.5	137.7	136.0	289.9	34.6	3.71
317	210.7	-17.9	161.6	-11.6	44.4	0.961	0.147	57.6	137.5	137.0	290.9	34.8	3.75
318	210.6	-18.0	162.5	-12.1	44.4	0.961	0.148	57.7	137.3	138.0	291.8	35.0	3.78
319	210.6	-18.1	163.3	-12.5	44.4	0.961	0.149	57.8	137.1	139.0	292.7	35.2	3.82
320	210.6	-18.2	164.1	-13.0	44.4	0.961	0.150	57.9	136.9	140.0	293.6	35.4	3.86