

**PER (#0007):** Total of **13993** orbits.  $\lambda_o = 137^\circ$ ,  $\lambda_g - \lambda_o = 283.3^\circ$ ,  $\beta_g = 38.3^\circ$ ,  $\Delta r = 3^\circ$ ,  $\Delta \lambda_o = 8^\circ$ .

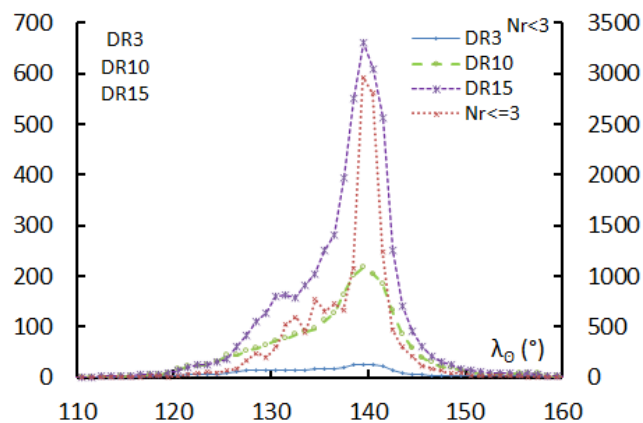
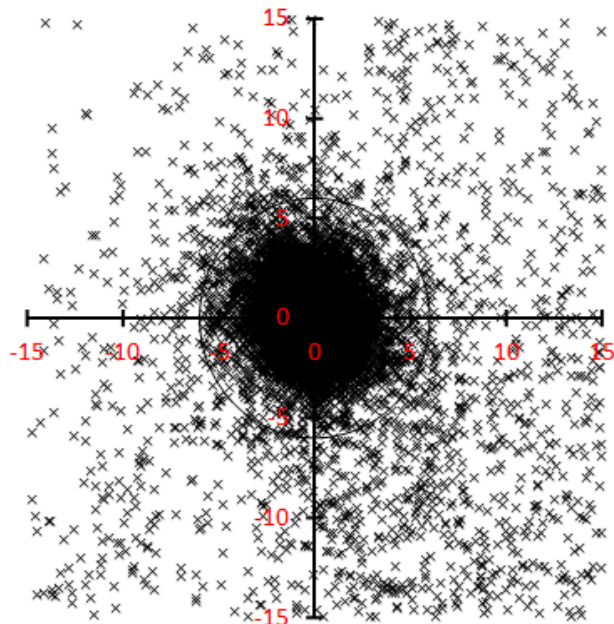


Table 1 – Number per year.

Year	N	Year	N
2007	2067	2013	1627
2008	929	2014	494
2009	604	2015	697
2010	1151	2016	1950
2011	1232	2017	660
2012	1063	2018	1519

Table 2 – Activity profiles.

	$\lambda_o$	Max
Nr<=3	139.5	2967
DR3	139.5	26.3
DR10	139.5	216.9
DR15	139.5	660.3

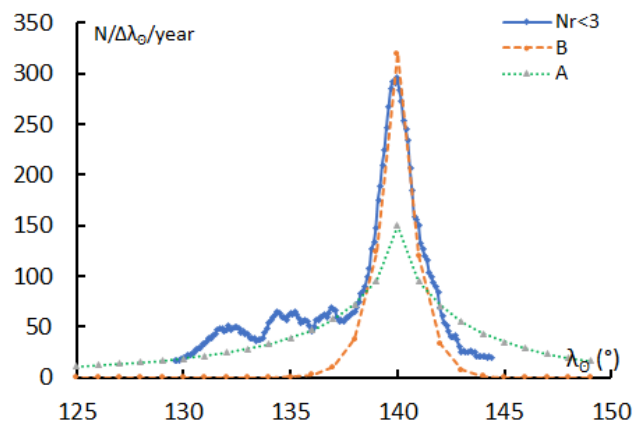


Table 3 – Evolution of the orbital parameters during the activity period.

$\lambda_o$	$\lambda_g - \lambda_o$	$\beta_g$	$\alpha_g$	$\delta_g$	$v_g$	$e$	$q$	$i$	$\omega$	$\Omega$	$\lambda_\pi$	$\beta_\pi$	$a$
110	282.7	40.3	10.7	49.3	58.4	0.980	0.960	110.5	152.5	110.0	300.3	25.6	47.31
111	282.8	40.3	11.8	49.6	58.4	0.978	0.959	110.6	152.4	111.0	301.4	25.7	43.59
112	282.8	40.2	12.8	49.9	58.4	0.976	0.959	110.7	152.4	112.0	302.5	25.7	40.39
113	282.8	40.1	13.9	50.3	58.5	0.975	0.959	110.8	152.3	113.0	303.6	25.8	37.61
114	282.8	40.1	15.0	50.6	58.5	0.973	0.959	110.9	152.2	114.0	304.6	25.8	35.17
115	282.8	40.0	16.2	50.9	58.5	0.971	0.958	111.0	152.1	115.0	305.7	25.9	33.02
116	282.8	39.9	17.3	51.3	58.5	0.969	0.958	111.0	152.0	116.0	306.8	25.9	31.10
117	282.8	39.9	18.4	51.6	58.5	0.967	0.958	111.1	152.0	117.0	307.9	26.0	29.38
118	282.9	39.8	19.6	51.9	58.5	0.966	0.957	111.2	151.9	118.0	308.9	26.1	27.84
119	282.9	39.7	20.7	52.2	58.5	0.964	0.957	111.3	151.8	119.0	310.0	26.1	26.44
120	282.9	39.7	21.9	52.6	58.6	0.962	0.957	111.4	151.7	120.0	311.1	26.2	25.16
121	282.9	39.6	23.1	52.9	58.6	0.960	0.956	111.5	151.7	121.0	312.2	26.2	24.00
122	282.9	39.5	24.3	53.2	58.6	0.958	0.956	111.5	151.6	122.0	313.2	26.3	22.93
123	282.9	39.5	25.5	53.5	58.6	0.956	0.955	111.6	151.5	123.0	314.3	26.3	21.95
124	282.9	39.4	26.7	53.8	58.6	0.955	0.955	111.7	151.4	124.0	315.4	26.4	21.05
125	282.9	39.3	27.9	54.1	58.6	0.953	0.955	111.8	151.3	125.0	316.5	26.5	20.21
126	283.0	39.3	29.2	54.4	58.6	0.951	0.954	111.9	151.2	126.0	317.6	26.5	19.43
127	283.0	39.2	30.4	54.7	58.6	0.949	0.954	112.0	151.2	127.0	318.6	26.6	18.70
128	283.0	39.2	31.7	55.0	58.7	0.947	0.953	112.0	151.1	128.0	319.7	26.6	18.03
129	283.0	39.1	33.0	55.3	58.7	0.945	0.953	112.1	151.0	129.0	320.8	26.7	17.40
130	283.0	39.0	34.3	55.5	58.7	0.943	0.953	112.2	150.9	130.0	321.9	26.8	16.80

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

$\lambda_{\theta}$	$\lambda_g - \lambda_{\theta}$	$\beta_g$	$\alpha_g$	$\delta_g$	$v_g$	$e$	$q$	$i$	$\omega$	$\Omega$	$\lambda_{\Pi}$	$\beta_{\Pi}$	$a$
131	283.0	39.0	35.6	55.8	58.7	0.941	0.952	112.3	150.8	131.0	323.0	26.8	16.25
132	283.0	38.9	36.9	56.1	58.7	0.939	0.952	112.4	150.7	132.0	324.0	26.9	15.72
133	283.0	38.8	38.3	56.3	58.7	0.938	0.951	112.4	150.6	133.0	325.1	26.9	15.23
134	283.1	38.8	39.6	56.6	58.7	0.936	0.951	112.5	150.6	134.0	326.2	27.0	14.77
135	283.1	38.7	41.0	56.8	58.8	0.934	0.950	112.6	150.5	135.0	327.3	27.1	14.33
136	283.1	38.6	42.4	57.1	58.8	0.932	0.950	112.7	150.4	136.0	328.4	27.1	13.91
137	283.1	38.6	43.8	57.3	58.8	0.930	0.950	112.8	150.3	137.0	329.5	27.2	13.52
138	283.1	38.5	45.2	57.5	58.8	0.928	0.949	112.9	150.2	138.0	330.5	27.3	13.14
139	283.1	38.4	46.6	57.8	58.8	0.926	0.949	112.9	150.1	139.0	331.6	27.3	12.79
140	283.1	38.4	48.1	58.0	58.8	0.924	0.948	113.0	150.0	140.0	332.7	27.4	12.45
141	283.1	38.3	49.5	58.2	58.8	0.922	0.948	113.1	149.9	141.0	333.8	27.5	12.13
142	283.2	38.2	51.0	58.4	58.8	0.920	0.947	113.2	149.8	142.0	334.9	27.5	11.82
143	283.2	38.2	52.5	58.6	58.9	0.918	0.947	113.3	149.7	143.0	336.0	27.6	11.53
144	283.2	38.1	54.0	58.7	58.9	0.916	0.946	113.3	149.6	144.0	337.1	27.7	11.25
145	283.2	38.1	55.5	58.9	58.9	0.914	0.946	113.4	149.5	145.0	338.2	27.7	10.98
146	283.2	38.0	57.0	59.1	58.9	0.912	0.945	113.5	149.4	146.0	339.2	27.8	10.72
147	283.2	37.9	58.6	59.2	58.9	0.910	0.945	113.6	149.3	147.0	340.3	27.9	10.48
148	283.2	37.9	60.1	59.4	58.9	0.908	0.944	113.7	149.3	148.0	341.4	27.9	10.24
149	283.2	37.8	61.7	59.5	58.9	0.906	0.943	113.8	149.2	149.0	342.5	28.0	10.02
150	283.3	37.7	63.2	59.6	59.0	0.904	0.943	113.8	149.1	150.0	343.6	28.1	9.80
151	283.3	37.7	64.8	59.7	59.0	0.902	0.942	113.9	149.0	151.0	344.7	28.1	9.60
152	283.3	37.6	66.4	59.8	59.0	0.900	0.942	114.0	148.8	152.0	345.8	28.2	9.40
153	283.3	37.5	68.0	59.9	59.0	0.898	0.941	114.1	148.7	153.0	346.9	28.3	9.20
154	283.3	37.5	69.6	60.0	59.0	0.896	0.941	114.2	148.6	154.0	348.0	28.3	9.02
155	283.3	37.4	71.2	60.1	59.0	0.894	0.940	114.2	148.5	155.0	349.1	28.4	8.84
156	283.3	37.3	72.8	60.1	59.0	0.892	0.939	114.3	148.4	156.0	350.2	28.5	8.67
157	283.3	37.3	74.4	60.2	59.0	0.890	0.939	114.4	148.3	157.0	351.3	28.6	8.50
158	283.4	37.2	76.0	60.2	59.1	0.888	0.938	114.5	148.2	158.0	352.4	28.6	8.34
159	283.4	37.1	77.7	60.3	59.1	0.886	0.938	114.6	148.1	159.0	353.5	28.7	8.19
160	283.4	37.1	79.3	60.3	59.1	0.883	0.937	114.6	148.0	160.0	354.6	28.8	8.04