

TPY_0 (#0340): Total of **82** orbits. $\lambda_o = 249.4^\circ$, $\lambda_g - \lambda_o = 262.0^\circ$, $\beta_g = -39.1^\circ$, $\Delta r = 3^\circ$, $\Delta\lambda_o = 5^\circ$. TPY in the SD contains clearly two showers. Here we consider TPY0, TPY1 and TPY2 in the SD as TPY_0 and TPY3 as TPY_3 in Tables 1~3.

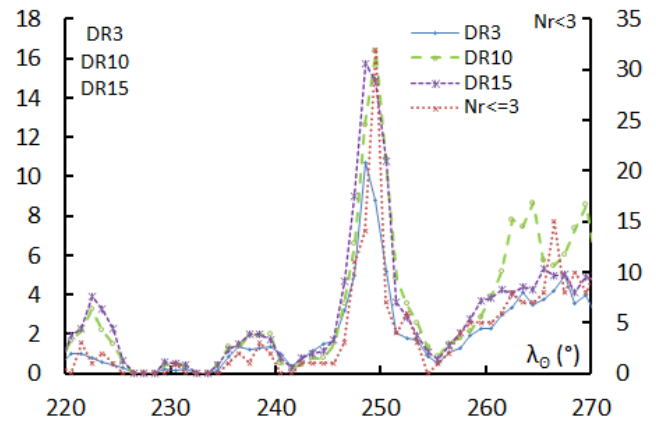
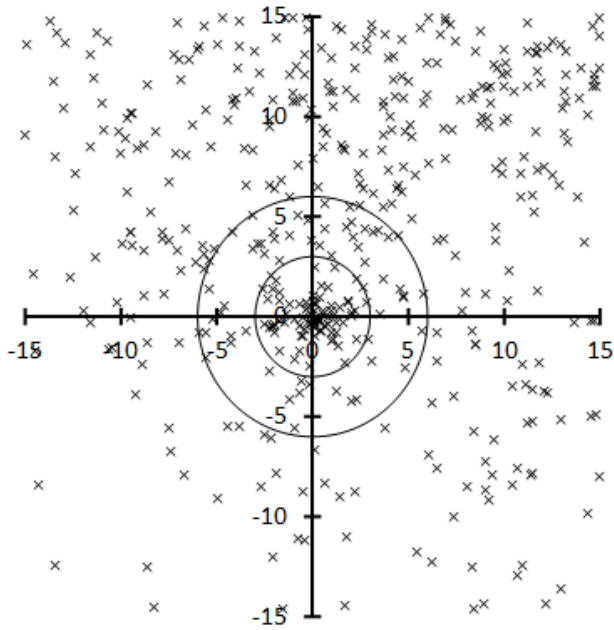


Table 1 – Number per year.

Year	N	Year	N
2007	12	2013	11
2008	12	2014	2
2009	8	2015	7
2010	9	2016	6
2011	2	2017	3
2012	5	2018	5

Table 2 – Activity profiles.

	λ_o	Max
Nr<=3	249.5	32
DR3	248.5	10.7
DR10	249.5	16.3
DR15	248.5	15.7

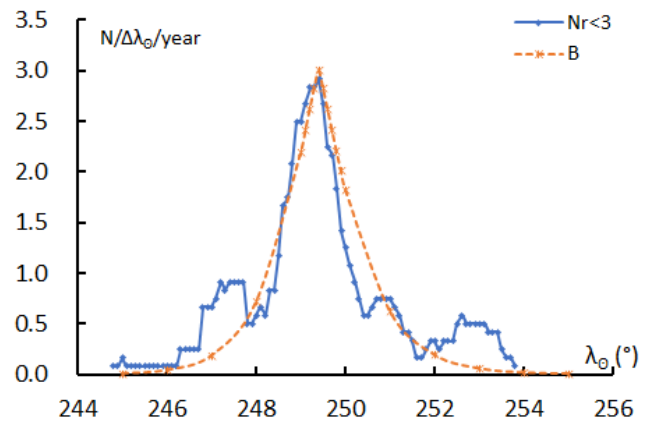


Table 3 – Evolution of the orbital parameters during the activity period.

λ_o	$\lambda_g - \lambda_o$	β_g	α_g	δ_g	ν_g	e	q	i	ω	Ω	λ_π	β_π	a
245	262.6	-40.7	135.3	-25.9	57.9	0.827	0.963	109.5	18.8	65.0	58.5	17.7	5.56
246	262.4	-40.4	136.1	-25.8	58.3	0.846	0.962	110.1	19.1	66.0	59.2	17.9	6.26
247	262.2	-40.1	136.9	-25.8	58.7	0.866	0.960	110.8	19.4	67.0	59.9	18.1	7.18
248	262.0	-39.7	137.6	-25.7	59.1	0.886	0.959	111.4	19.7	68.0	60.5	18.3	8.43
249	261.8	-39.4	138.4	-25.6	59.5	0.907	0.958	112.0	20.0	69.0	61.2	18.5	10.25
249.1	261.8	-39.4	138.5	-25.6	59.6	0.909	0.958	112.1	20.0	69.1	61.3	18.5	10.47
249.2	261.8	-39.4	138.6	-25.6	59.6	0.911	0.957	112.2	20.1	69.2	61.4	18.5	10.71
249.3	261.7	-39.3	138.6	-25.6	59.7	0.913	0.957	112.2	20.1	69.3	61.4	18.5	10.96
249.4	261.7	-39.3	138.7	-25.6	59.7	0.915	0.957	112.3	20.1	69.4	61.5	18.6	11.23
249.5	261.7	-39.3	138.8	-25.6	59.7	0.917	0.957	112.4	20.1	69.5	61.6	18.6	11.50
249.6	261.7	-39.2	138.9	-25.6	59.8	0.919	0.957	112.4	20.2	69.6	61.6	18.6	11.79
249.7	261.7	-39.2	139.0	-25.6	59.8	0.921	0.957	112.5	20.2	69.7	61.7	18.6	12.10
249.8	261.7	-39.2	139.0	-25.6	59.9	0.923	0.957	112.6	20.2	69.8	61.8	18.6	12.42
249.9	261.6	-39.1	139.1	-25.6	59.9	0.925	0.957	112.6	20.3	69.9	61.8	18.6	12.76
250	261.6	-39.1	139.2	-25.6	59.9	0.927	0.956	112.7	20.3	70.0	61.9	18.7	13.12
251	261.4	-38.8	140.0	-25.6	60.4	0.948	0.955	113.3	20.6	71.0	62.6	18.8	18.33
252	261.3	-38.5	140.8	-25.5	60.8	0.969	0.954	114.0	20.8	72.0	63.2	19.0	30.74
253	261.1	-38.2	141.6	-25.5	61.2	0.990	0.953	114.6	21.1	73.0	63.9	19.1	98.16
254	260.9	-37.9	142.4	-25.5	61.6	1.012	0.951	115.2	21.4	74.0	64.5	19.2	-80.0
255	260.7	-37.5	143.2	-25.4	62.0	1.034	0.950	115.9	21.6	75.0	65.2	19.4	-28.2