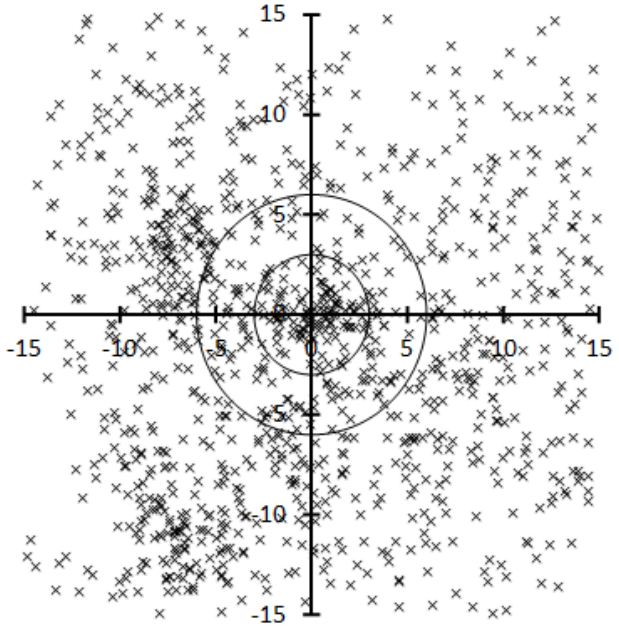
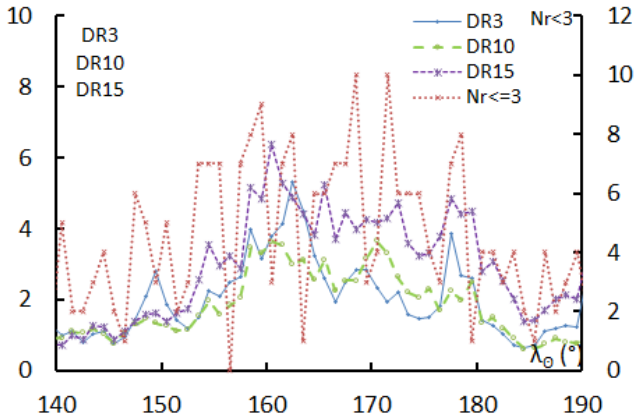
NIA (#0033): Total of **121** orbits. $\lambda_\odot$ = 165°, λ_g–$\lambda_\odot$ = 198.0°, β_g = 4.3°, Δr = 3°, $\Delta\lambda_\odot$ = 10°. This activity is not the traditional 'Northern iota Aquariids' and it is slightly above the high sporadic background activity. The maximum is quite unclear between $\lambda_\odot$ = 160°~170°.





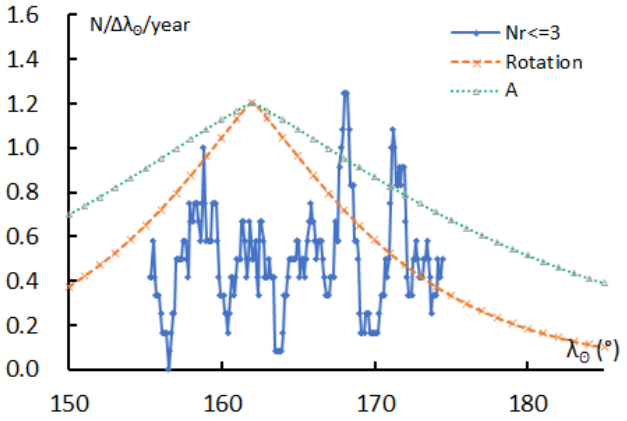


Table 1 – Number per year.

Year	N	Year	N
2007	5	2013	11
2008	6	2014	9
2009	9	2015	1
2010	17	2016	9
2011	20	2017	10
2012	20	2018	4

Table 2 – Activity profiles.

	$\lambda_\odot$	Max
Nr<=3	168.5	10
DR3	162.5	5.3
DR10	170.5	3.7
DR15	160.5	6.4

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

$\lambda_\odot$	λ_g–$\lambda_\odot$	β_g	α_g	δ_g	v_g	e	q	i	ω	Ω	λ_Π	β_Π	a
150	198.2	3.6	347.8	–1.4	29.8	0.849	0.256	5.2	308.8	150.0	99.0	–4.1	1.70
151	198.2	3.6	348.7	–1.0	29.8	0.850	0.256	5.3	308.8	151.0	99.9	–4.1	1.70
152	198.2	3.6	349.6	–0.6	29.8	0.850	0.256	5.3	308.7	152.0	100.8	–4.1	1.70
153	198.1	3.6	350.5	–0.2	29.9	0.850	0.256	5.3	308.7	153.0	101.8	–4.1	1.71
154	198.1	3.6	351.3	0.2	29.9	0.850	0.256	5.3	308.6	154.0	102.7	–4.1	1.71
155	198.1	3.6	352.2	0.6	29.9	0.850	0.257	5.3	308.5	155.0	103.7	–4.1	1.72
156	198.1	3.6	353.1	1.0	29.9	0.851	0.257	5.3	308.5	156.0	104.6	–4.1	1.72
157	198.1	3.6	354.0	1.3	29.9	0.851	0.257	5.3	308.4	157.0	105.5	–4.2	1.72
158	198.0	3.6	354.9	1.7	29.9	0.851	0.257	5.3	308.4	158.0	106.5	–4.2	1.73
159	198.0	3.6	355.8	2.1	29.9	0.851	0.257	5.3	308.3	159.0	107.4	–4.2	1.73
160	198.0	3.6	356.7	2.5	29.9	0.851	0.258	5.3	308.2	160.0	108.4	–4.2	1.74
161	198.0	3.6	357.6	2.9	29.9	0.852	0.258	5.3	308.2	161.0	109.3	–4.2	1.74
162	198.0	3.6	358.5	3.3	29.9	0.852	0.258	5.3	308.1	162.0	110.2	–4.2	1.74
163	197.9	3.7	359.4	3.7	29.9	0.852	0.258	5.4	308.1	163.0	111.2	–4.2	1.75
164	197.9	3.7	0.3	4.1	30.0	0.852	0.259	5.4	308.0	164.0	112.1	–4.2	1.75
165	197.9	3.7	1.2	4.5	30.0	0.852	0.259	5.4	307.9	165.0	113.1	–4.2	1.75
166	197.9	3.7	2.1	4.9	30.0	0.853	0.259	5.4	307.9	166.0	114.0	–4.2	1.76
167	197.9	3.7	3.0	5.3	30.0	0.853	0.259	5.4	307.8	167.0	114.9	–4.3	1.76
168	197.8	3.7	3.9	5.7	30.0	0.853	0.260	5.4	307.8	168.0	115.9	–4.3	1.76
169	197.8	3.7	4.8	6.1	30.0	0.853	0.260	5.4	307.7	169.0	116.8	–4.3	1.77

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

$\lambda_\odot$	$\lambda_g-\lambda_\odot$	β_g	α_g	δ_g	v_g	e	q	i	ω	Ω	λ_Π	β_Π	a
170	197.8	3.7	5.7	6.5	30.0	0.853	0.260	5.4	307.6	170.0	117.8	–4.3	1.77
171	197.8	3.7	6.6	6.9	30.0	0.853	0.260	5.4	307.6	171.0	118.7	–4.3	1.78
172	197.8	3.7	7.5	7.3	30.0	0.854	0.260	5.4	307.5	172.0	119.6	–4.3	1.78
173	197.7	3.7	8.4	7.7	30.0	0.854	0.261	5.4	307.5	173.0	120.6	–4.3	1.78
174	197.7	3.7	9.3	8.1	30.0	0.854	0.261	5.4	307.4	174.0	121.5	–4.3	1.79
175	197.7	3.7	10.2	8.5	30.1	0.854	0.261	5.5	307.3	175.0	122.5	–4.3	1.79
176	197.7	3.7	11.1	8.8	30.1	0.854	0.261	5.5	307.3	176.0	123.4	–4.3	1.79
177	197.7	3.8	12.0	9.2	30.1	0.854	0.262	5.5	307.2	177.0	124.3	–4.4	1.80
178	197.6	3.8	12.9	9.6	30.1	0.855	0.262	5.5	307.2	178.0	125.3	–4.4	1.80
179	197.6	3.8	13.8	10.0	30.1	0.855	0.262	5.5	307.1	179.0	126.2	–4.4	1.80
180	197.6	3.8	14.8	10.4	30.1	0.855	0.262	5.5	307.0	180.0	127.2	–4.4	1.81
181	197.6	3.8	15.7	10.8	30.1	0.855	0.263	5.5	307.0	181.0	128.1	–4.4	1.81
182	197.6	3.8	16.6	11.2	30.1	0.855	0.263	5.5	306.9	182.0	129.1	–4.4	1.81
183	197.5	3.8	17.5	11.5	30.1	0.855	0.263	5.5	306.9	183.0	130.0	–4.4	1.82
184	197.5	3.8	18.4	11.9	30.1	0.855	0.263	5.5	306.8	184.0	130.9	–4.4	1.82
185	197.5	3.8	19.4	12.3	30.1	0.856	0.264	5.5	306.7	185.0	131.9	–4.4	1.83