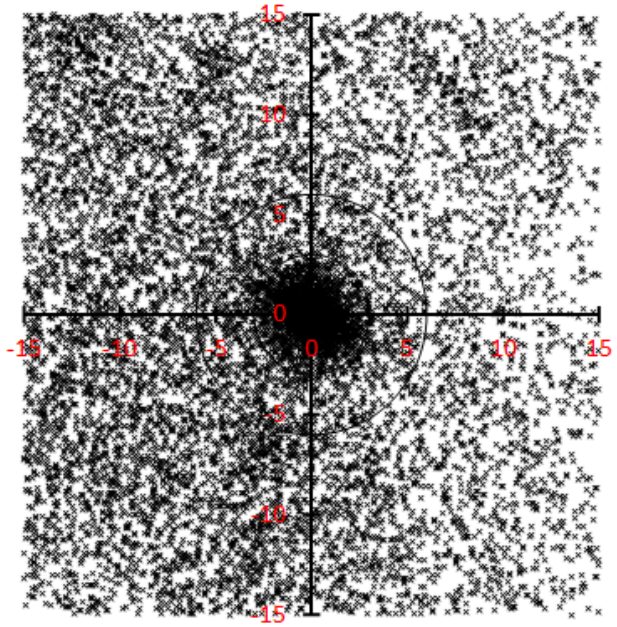
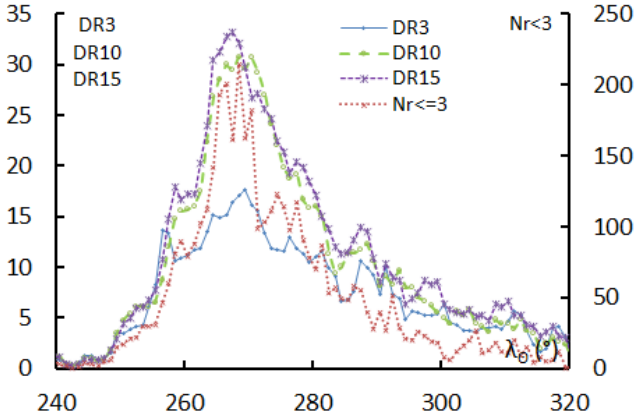
COM (#0020): Total of **4092** orbits. $\lambda_\odot$ = 280°, λ_g–$\lambda_\odot$ = 242.3°, β_g = 20.1°, Δr = 3°, $\Delta\lambda_\odot$ = 40°. COM (#0020), DLM (#0032), JCO (#0090) and FEV (#0506) are wrapped up in COM, though DLM is rejected now in the SD. The activity period seems to be over 70 degrees and too long for a meteor shower having such high inclination orbit. The name of COM is not suitable for this activity, because the maximum coincides with the former DLM.





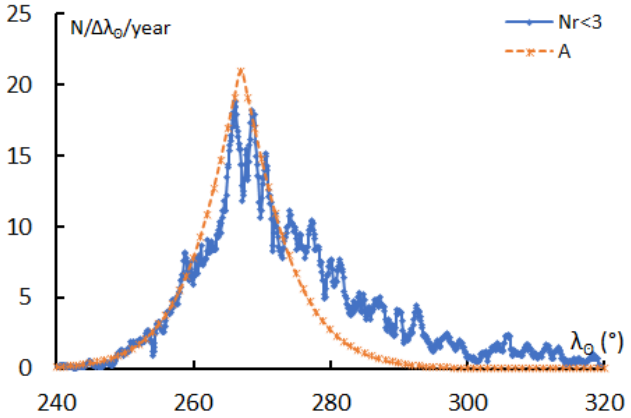


Table 1 – Number per year.

Year	N	Year	N
2007	220	2013	335
2008	374	2014	322
2009	372	2015	282
2010	377	2016	342
2011	406	2017	446
2012	286	2018	330

Table 2 – Activity profiles.

	$\lambda_\odot$	Max
Nr<=3	268.5	215
DR3	269.5	17.6
DR10	270.5	30.8
DR15	267.5	33.3

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
240	244.3	22.9	133.7	41.3	63.2	0.978	0.615	132.1	256.3	240.0	350.0	–46.1	27.61
241	244.2	22.9	134.7	41.0	63.2	0.977	0.613	132.2	256.6	241.0	350.6	–46.1	26.17
242	244.2	22.8	135.8	40.7	63.2	0.975	0.611	132.3	256.8	242.0	351.2	–46.1	24.88
243	244.1	22.7	136.9	40.3	63.2	0.974	0.609	132.4	257.1	243.0	351.8	–46.1	23.72
244	244.1	22.7	137.9	40.0	63.2	0.973	0.607	132.4	257.4	244.0	352.4	–46.1	22.68
245	244.0	22.6	139.0	39.6	63.2	0.972	0.605	132.5	257.6	245.0	353.0	–46.1	21.72
246	243.9	22.5	140.0	39.3	63.2	0.971	0.602	132.6	257.9	246.0	353.6	–46.0	20.85
247	243.9	22.5	141.1	38.9	63.2	0.970	0.600	132.7	258.2	247.0	354.2	–46.0	20.06
248	243.8	22.4	142.1	38.6	63.2	0.969	0.598	132.7	258.4	248.0	354.8	–46.0	19.32
249	243.8	22.3	143.1	38.2	63.2	0.968	0.596	132.8	258.7	249.0	355.4	–46.0	18.65
250	243.7	22.3	144.1	37.8	63.2	0.967	0.594	132.9	258.9	250.0	356.0	–46.0	18.02
251	243.7	22.2	145.1	37.5	63.1	0.966	0.592	133.0	259.2	251.0	356.6	–46.0	17.44
252	243.6	22.1	146.1	37.1	63.1	0.965	0.590	133.0	259.5	252.0	357.2	–45.9	16.91
253	243.6	22.0	147.1	36.7	63.1	0.964	0.588	133.1	259.7	253.0	357.8	–45.9	16.41
254	243.5	22.0	148.1	36.3	63.1	0.963	0.586	133.2	260.0	254.0	358.5	–45.9	15.94
255	243.5	21.9	149.1	35.9	63.1	0.962	0.584	133.3	260.3	255.0	359.1	–45.9	15.50
256	243.4	21.8	150.1	35.6	63.1	0.961	0.582	133.3	260.5	256.0	359.7	–45.8	15.09
257	243.4	21.8	151.0	35.2	63.1	0.961	0.580	133.4	260.8	257.0	0.3	–45.8	14.70
258	243.3	21.7	152.0	34.8	63.1	0.960	0.578	133.5	261.0	258.0	0.9	–45.8	14.34

Table 3 – Continued, 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
259	243.3	21.6	153.0	34.4	63.1	0.959	0.576	133.6	261.3	259.0	1.5	–45.7	14.00
260	243.2	21.6	153.9	34.0	63.1	0.958	0.574	133.7	261.6	260.0	2.1	–45.7	13.68
261	243.2	21.5	154.9	33.6	63.1	0.957	0.572	133.7	261.8	261.0	2.8	–45.6	13.37
262	243.1	21.4	155.8	33.2	63.1	0.956	0.570	133.8	262.1	262.0	3.4	–45.6	13.08
263	243.1	21.4	156.7	32.7	63.0	0.956	0.568	133.9	262.3	263.0	4.0	–45.6	12.81
264	243.0	21.3	157.7	32.3	63.0	0.955	0.566	134.0	262.6	264.0	4.6	–45.5	12.55
265	243.0	21.2	158.6	31.9	63.0	0.954	0.564	134.1	262.8	265.0	5.3	–45.5	12.31
266	242.9	21.1	159.5	31.5	63.0	0.953	0.562	134.1	263.1	266.0	5.9	–45.4	12.08
267	242.9	21.1	160.4	31.1	63.0	0.953	0.560	134.2	263.3	267.0	6.5	–45.4	11.85
268	242.8	21.0	161.4	30.7	63.0	0.952	0.558	134.3	263.6	268.0	7.1	–45.3	11.64
269	242.8	20.9	162.3	30.2	63.0	0.951	0.556	134.4	263.8	269.0	7.8	–45.3	11.44
270	242.7	20.9	163.2	29.8	63.0	0.951	0.554	134.5	264.1	270.0	8.4	–45.2	11.25
271	242.7	20.8	164.1	29.4	63.0	0.950	0.552	134.6	264.3	271.0	9.0	–45.2	11.07
272	242.6	20.7	165.0	29.0	63.0	0.950	0.550	134.6	264.6	272.0	9.7	–45.1	10.90
273	242.6	20.7	165.9	28.5	63.0	0.949	0.548	134.7	264.8	273.0	10.3	–45.0	10.73
274	242.5	20.6	166.7	28.1	63.0	0.948	0.546	134.8	265.1	274.0	11.0	–45.0	10.57
275	242.5	20.5	167.6	27.7	62.9	0.948	0.544	134.9	265.3	275.0	11.6	–44.9	10.42
276	242.4	20.5	168.5	27.2	62.9	0.947	0.542	135.0	265.6	276.0	12.2	–44.8	10.27
277	242.4	20.4	169.4	26.8	62.9	0.947	0.540	135.1	265.8	277.0	12.9	–44.8	10.14
278	242.3	20.3	170.2	26.4	62.9	0.946	0.538	135.2	266.1	278.0	13.5	–44.7	10.00
279	242.3	20.2	171.1	25.9	62.9	0.946	0.536	135.2	266.3	279.0	14.2	–44.6	9.88
280	242.2	20.2	172.0	25.5	62.9	0.945	0.534	135.3	266.5	280.0	14.8	–44.6	9.75
281	242.2	20.1	172.8	25.1	62.9	0.945	0.532	135.4	266.8	281.0	15.5	–44.5	9.64
282	242.1	20.0	173.7	24.6	62.9	0.944	0.530	135.5	267.0	282.0	16.2	–44.4	9.53
283	242.1	20.0	174.6	24.2	62.9	0.944	0.529	135.6	267.3	283.0	16.8	–44.3	9.42
284	242.0	19.9	175.4	23.7	62.9	0.943	0.527	135.7	267.5	284.0	17.5	–44.3	9.32
285	242.0	19.8	176.3	23.3	62.9	0.943	0.525	135.8	267.7	285.0	18.1	–44.2	9.22
286	241.9	19.8	177.1	22.9	62.9	0.943	0.523	135.9	268.0	286.0	18.8	–44.1	9.12
287	241.9	19.7	178.0	22.4	62.8	0.942	0.521	136.0	268.2	287.0	19.5	–44.0	9.03
288	241.8	19.6	178.8	22.0	62.8	0.942	0.519	136.0	268.5	288.0	20.2	–43.9	8.95
289	241.8	19.5	179.7	21.5	62.8	0.942	0.517	136.1	268.7	289.0	20.8	–43.8	8.86
290	241.7	19.5	180.5	21.1	62.8	0.941	0.516	136.2	268.9	290.0	21.5	–43.8	8.78
291	241.7	19.4	181.3	20.7	62.8	0.941	0.514	136.3	269.1	291.0	22.2	–43.7	8.71
292	241.6	19.3	182.2	20.2	62.8	0.941	0.512	136.4	269.4	292.0	22.9	–43.6	8.63
293	241.6	19.3	183.0	19.8	62.8	0.940	0.510	136.5	269.6	293.0	23.5	–43.5	8.56
294	241.5	19.2	183.8	19.3	62.8	0.940	0.508	136.6	269.8	294.0	24.2	–43.4	8.50
295	241.5	19.1	184.7	18.9	62.8	0.940	0.506	136.7	270.1	295.0	24.9	–43.3	8.43
296	241.4	19.1	185.5	18.5	62.8	0.940	0.505	136.8	270.3	296.0	25.6	–43.2	8.37
297	241.4	19.0	186.3	18.0	62.8	0.939	0.503	136.9	270.5	297.0	26.3	–43.1	8.31
298	241.3	18.9	187.2	17.6	62.7	0.939	0.501	137.0	270.7	298.0	27.0	–43.0	8.25
299	241.3	18.9	188.0	17.1	62.7	0.939	0.499	137.1	271.0	299.0	27.7	–42.9	8.20
300	241.2	18.8	188.8	16.7	62.7	0.939	0.498	137.2	271.2	300.0	28.4	–42.8	8.15
301	241.2	18.7	189.6	16.3	62.7	0.939	0.496	137.3	271.4	301.0	29.1	–42.7	8.10
302	241.1	18.6	190.5	15.8	62.7	0.939	0.494	137.4	271.6	302.0	29.8	–42.6	8.05
303	241.1	18.6	191.3	15.4	62.7	0.938	0.492	137.5	271.9	303.0	30.5	–42.5	8.00
304	241.0	18.5	192.1	15.0	62.7	0.938	0.491	137.6	272.1	304.0	31.2	–42.4	7.96
305	241.0	18.4	192.9	14.5	62.7	0.938	0.489	137.7	272.3	305.0	31.9	–42.3	7.92

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
306	240.9	18.4	193.7	14.1	62.7	0.938	0.487	137.8	272.5	306.0	32.6	–42.2	7.88
307	240.9	18.3	194.6	13.7	62.7	0.938	0.485	137.9	272.7	307.0	33.3	–42.1	7.85
308	240.8	18.2	195.4	13.2	62.7	0.938	0.484	138.0	272.9	308.0	34.0	–42.0	7.81
309	240.8	18.2	196.2	12.8	62.7	0.938	0.482	138.1	273.2	309.0	34.8	–41.9	7.78
310	240.7	18.1	197.0	12.4	62.6	0.938	0.480	138.2	273.4	310.0	35.5	–41.8	7.75
311	240.7	18.0	197.8	12.0	62.6	0.938	0.479	138.3	273.6	311.0	36.2	–41.6	7.72
312	240.6	17.9	198.7	11.5	62.6	0.938	0.477	138.4	273.8	312.0	36.9	–41.5	7.69
313	240.6	17.9	199.5	11.1	62.6	0.938	0.475	138.5	274.0	313.0	37.7	–41.4	7.66
314	240.5	17.8	200.3	10.7	62.6	0.938	0.473	138.6	274.2	314.0	38.4	–41.3	7.64
315	240.5	17.7	201.1	10.3	62.6	0.938	0.472	138.7	274.4	315.0	39.1	–41.2	7.62
316	240.4	17.7	201.9	9.9	62.6	0.938	0.470	138.8	274.6	316.0	39.9	–41.1	7.60
317	240.4	17.6	202.8	9.4	62.6	0.938	0.469	138.9	274.8	317.0	40.6	–41.0	7.58
318	240.3	17.5	203.6	9.0	62.6	0.938	0.467	139.0	275.0	318.0	41.3	–40.8	7.56
319	240.3	17.5	204.4	8.6	62.6	0.938	0.465	139.1	275.2	319.0	42.1	–40.7	7.54
320	240.2	17.4	205.2	8.2	62.6	0.938	0.464	139.2	275.5	320.0	42.8	–40.6	7.53