

Results of the IMO Video Meteor Network – October 2010

Sirko Molau, Abenstalstr. 13b, 84072 Seysdorf

2010/12/10

1. Observers

Code	Name	Place	Camera	FOV [°²]	St.LM [mag]	Eff.CA [km²]	Nights	Time [h]	Tot. CA [10³km²h]	Meteors
BENOR	Benitez-S.	Las Palmas	TIMES4 (1.4/50)	2359	3.2	492	17	79.5	-	346
			TIMES5 (0.95/50)	33	7.0	261	12	18.4	-	52
BERER	Berko	Ludanyhalaszi	HULUD1 (0.95/3)	6500	-	-	9	75.2	-	335
			HULUD2 (0.95/2.8)	5977	4.2	2978	20	141.1	-	610
BRIBE	Brinkmann	Herne	HERMINE (0.8/6)	2374	4.2	1084	10	77.7	-	398
CASFL	Castellani	Monte Baldo	BMH1 (0.8/6)	2350	-	-	20	126.0	-	522
			BMH2 (1.5/4.5)*	4243	-	-	20	158.9	-	1019
CRIST	Crivello	Valbrevenna	C3P8 (0.8/3.8)	5575	4.2	2525	24	161.0	-	1157
			STG38 (0.8/3.8)	5593	-	-	25	164.0	-	1503
			MIC4 (0.8/6)	1471	5.2	3008	7	40.8	-	625
CURMA	Currie	Grove	MIC4 (0.8/6)	1471	5.2	3008	7	40.8	-	625
ELTMA	Eltri	Venezia	MET38 (0.8/3.8)	5620	-	-	21	166.7	-	953
GONRU	Goncalves	Tomar	TEMPLAR1 (0.8/6)*	2188	5.3	2331	19	151.3	271.1	1180
			TEMPLAR2 (0.8/6)*	2303	5.0	2397	20	150.2	285.8	999
GOVMI	Govedic	Sredisce ob Dravi	ORION2 (0.8/8)	1471	6.0	3916	23	155.0	125.5	800
HERCA	Hergenrother	Tucson	SALSA3 (1.2/4)*	4332	4.0	1471	31	181.3	-	839
HINWO	Hinz	Brannenburg	AKM2 (0.85/25)*	754	5.7	1306	11	75.8	88.7	439
IGAAN	Igaz	Baja	HUBAJ (0.8/3.8)	5600	4.3	3338	6	51.4	-	436
			HUHOD (0.8/3.8)	5609	4.2	3031	24	144.7	-	881
			HUPOL (1.2/4)	3929	3.5	1144	22	100.1	97.4	392
JOBKL	Jobse	Oostkapelle	BETSY2 (1.2/85)*	1725	-	-	12	104.6	-	2691
			KLARA2 (1.2/85)*	1564	-	-	14	118.4	-	1767
			METKA (0.8/8)*	1381	4.0	2246	9	63.9	33.9	323
KACJA	Kac	Kostanjevec Ljubljana Kamnik	ORION1 (0.8/8)	1420	5.3	2336	21	91.0	80.6	456
			REZIKA (0.8/6)	2307	5.0	2293	12	97.6	44.7	875
			STEFKA (0.8/3.8)	5540	4.2	2882	12	76.7	42.5	381
KERST	Kerr	Glenlee	GOCAM1 (0.8/3.8)	5238	4.2	2637	20	125.1	364.7	1020
KOSDE	Koschny	Noordwijkerhout	LIC4 (1.4/50)*	2027	5.3	2782	21	91.4	-	610
			TEC1 (1.4/12)	741	5.6	1133	16	22.8	-	87
LUNRO	Lunsford	Chula Vista	BOCAM (1.4/50)*	1860	-	-	4	19.5	-	143
MOLSI	Molau	Seysdorf	AVIS2 (1.4/50)*	1771	6.1	4182	18	136.5	321.4	2055
			MINCAM1 (0.8/8)	1477	4.9	1716	24	148.2	183.2	1025
			REMO1 (0.8/3.8)	5592	3.0	974	27	117.8	114.0	524
			REMO2 (0.8/3.8)	5635	4.3	2846	26	114.1	192.5	416
			HUFUL (1.4/5)	2522	3.5	532	22	143.2	-	586
MORJO	Morvai	Fülöpszallas	ALBIANO (1.2/4.5)	1971	-	-	2	5.6	-	16
OCHPA	Ochner	Albiano	ALBIANO (1.2/4.5)	1971	-	-	2	5.6	-	16
OTTMI	Otte	Pearl City	ORIE1 (1.4/5.7)	3837	-	-	24	167.7	-	1001
PERZS	Perko	Becsehely	HUBEC (0.8/3.8)*	5448	3.4	1500	23	174.4	157.8	1134
ROBBI	Roberto	Verona	FIAMENE (0.8/3.8)	5632	-	-	17	86.1	-	313
ROTEC	Rothenberg	Berlin	ARMEFA (0.8/6)	2369	4.8	1801	19	111.8	126.9	575
SCHHA	Schremmer	Niederkrüchten	DORAEMON (0.8/3.8)	5537	3.0	846	23	106.3	-	407
SLAST	Slavec	Ljubljana	KAYAK1 (1.8/28)	596	-	-	16	102.6	-	365
STOEN	Stomeo	Scorze	MIN38 (0.8/3.8)	5631	-	-	22	196.3	-	1811
			NOA38 (0.8/3.8)	5609	-	-	22	187.8	-	1669
			SCO38 (0.8/3.8)	5598	-	-	22	195.1	-	2142
			OND1 (1.4/50)*	2195	5.8	4595	2	9.9	-	361
STORO	Stork	Ondrejov	OND1 (1.4/50)*	2195	5.8	4595	2	9.9	-	361
			MINCAM2 (0.8/6)	2357	-	-	20	79.4	-	310
			MINCAM3 (0.8/12)	728	-	-	21	92.4	-	441
			MINCAM5 (0.8/6)	2344	-	-	21	135.8	-	809
TEPIS	Tepliczky	Budapest	HUMOB (0.8/6)	2375	4.9	2258	18	160.7	213.6	1153
YRJIL	Yrjölä	Kuusankoski	FINEXCAM (0.8/6)	2337	-	-	18	88.6	-	446
Sum							31	5590.4	-	39398

* active field of view smaller than video frame

2. Observing Times (h)

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	1.4	-	0.6	-	-	-	3.3	4.0	2.1	-	-	-	4.7	-	8.6
	1.5	-	-	-	-	-	1.2	-	0.3	-	-	-	1.7	-	1.8
BERER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	2.5	3.3	5.4	10.8	7.8	6.6	6.0	2.1	6.7	1.9
BRIBE	-	-	7.4	4.4	-	-	-	-	-	10.1	11.3	-	-	-	-
	0.7	5.5	-	-	6.5	8.3	2.0	-	8.6	7.2	4.1	6.8	-	-	-
CASFL	2.0	8.7	0.4	-	9.6	8.0	3.9	-	11.5	7.7	6.1	9.8	-	-	0.3
	6.3	3.0	0.6	-	6.7	9.6	10.0	5.6	8.7	1.0	8.0	3.7	8.7	9.5	1.8
	8.1	1.0	6.8	-	-	0.5	1.3	3.1	2.9	0.5	9.0	5.1	10.7	11.2	4.0

CURMA	-	-	-	-	-	-	-	-	-	2.9	-	-	-	-	4.3
ELTMA	-	7.2	1.6	-	-	6.8	9.9	8.5	10.9	9.8	5.0	10.0	-	8.6	7.1
GONRU	7.3	3.0	-	7.9	6.0	-	-	-	-	-	4.5	10.7	10.0	3.7	8.7
	7.2	2.4	-	8.2	5.9	-	-	-	-	-	5.6	8.2	7.4	3.2	9.9
GOVMI	-	-	1.3	3.0	-	0.5	8.1	4.4	8.7	9.5	10.2	6.9	3.3	8.1	4.3
HERCA	5.9	7.0	4.5	1.4	4.4	1.0	6.9	7.7	7.9	8.8	7.0	7.5	8.6	7.8	2.2
HINWO	6.9	-	4.3	5.0	-	-	-	-	5.0	9.5	10.7	5.5	-	-	-
IGAAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5.8	2.0	6.7	1.2	-	3.8	3.2	0.7	6.3	8.3	6.3	8.8	10.0	3.6	-
	-	-	4.3	-	-	0.9	0.9	3.5	2.8	5.5	3.0	2.5	0.9	8.7	-
JOBKL	-	-	-	-	-	6.2	6.1	9.9	9.5	9.8	10.6	7.8	-	-	-
	-	-	-	-	-	5.8	5.0	10.4	10.4	9.9	10.4	7.9	-	-	-
KACJA	-	-	-	-	-	-	3.6	5.1	9.3	-	6.8	-	-	-	-
	-	0.6	0.6	0.6	-	-	6.2	7.7	3.3	3.5	5.1	2.0	-	7.0	0.2
	-	-	-	-	-	-	10.9	8.4	10.1	-	9.2	1.8	-	8.5	-
	-	-	-	-	-	-	6.7	7.0	4.8	4.9	5.6	0.3	-	-	-
KERST	-	6.9	3.4	4.0	8.0	7.6	5.4	-	-	-	-	-	-	-	-
KOSDE	-	0.8	-	4.2	-	3.0	-	7.8	-	7.8	4.4	2.7	2.3	-	3.8
	-	0.6	-	2.1	-	1.9	-	1.1	2.4	1.9	1.1	0.1	1.0	-	0.5
LUNRO	-	-	-	-	-	-	-	-	8.1	-	1.5	3.4	-	-	-
MOLSI	-	5.8	9.6	7.4	-	-	-	10.1	9.8	10.6	10.6	10.0	6.4	1.8	-
	-	9.6	7.3	7.7	-	-	6.6	8.7	11.1	11.2	9.6	11.3	2.2	1.3	0.3
	6.4	4.6	5.2	0.2	-	2.2	3.9	2.6	4.9	7.9	6.1	6.1	10.5	-	3.1
	2.7	4.1	9.4	1.5	-	2.2	6.0	1.3	9.9	6.7	1.1	2.3	8.9	-	2.7
MORJO	0.3	-	2.3	-	-	5.0	6.0	8.0	4.1	7.7	8.3	7.8	7.0	9.3	1.2
OCHPA	-	-	-	-	-	-	-	-	2.8	2.8	-	-	-	-	-
OTTMI	-	-	-	7.1	7.3	8.0	8.5	8.0	6.4	9.0	5.9	7.1	4.2	6.2	7.8
PERCZ	-	1.5	2.0	2.4	-	4.2	9.9	11.1	9.7	11.2	11.3	9.4	-	8.7	3.5
ROBBI	-	1.7	1.4	-	-	4.2	0.4	-	8.8	9.8	6.4	9.3	1.8	7.8	-
ROTEC	-	-	-	-	-	-	-	5.7	11.1	9.9	3.2	10.1	11.4	-	4.1
SCHHA	-	-	4.3	0.9	2.3	-	3.3	7.2	9.4	5.8	10.6	1.3	6.4	-	0.4
SLAST	-	1.5	-	-	-	-	6.9	6.1	6.2	7.1	7.3	4.3	-	8.7	-
STOEN	5.0	7.6	7.1	-	-	10.8	4.6	10.4	10.6	8.5	5.7	11.3	-	9.3	10.3
	5.0	7.2	5.4	-	-	10.3	4.5	8.5	11.1	8.5	6.2	11.2	-	9.8	9.8
	5.4	6.4	6.3	-	-	9.6	2.7	9.7	9.9	8.5	5.4	11.1	-	10.3	10.2
STORO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	2.5	-	4.2	2.8	5.2	-	-	4.8	7.4	6.0	5.4	0.3	7.1	-	-
	2.6	0.4	7.1	7.4	5.9	-	1.1	9.6	9.8	7.3	8.0	1.8	4.0	-	-
	4.5	0.8	7.6	7.8	9.4	-	-	6.6	9.3	9.6	8.2	3.0	10.0	-	-
TEPIS	-	-	-	-	-	5.0	2.7	10.9	9.6	10.1	11.1	10.1	11.2	11.2	-
YRJIL	7.4	4.0	2.0	5.8	10.5	10.2	5.2	-	-	5.8	-	6.6	-	-	0.1
Sum	94.9	103.9	123.7	93.0	87.7	138.1	170.2	229.6	306.3	290.4	282.5	251.9	162.5	171.0	112.9

October	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BENOR	4.6	-	-	5.8	8.4	-	5.8	5.9	4.3	-	5.1	6.6	5.0	-	3.3	-
	0.3	-	-	-	2.8	-	3.8	0.3	-	-	2.3	1.3	-	-	1.1	-
BERER	-	-	-	-	7.8	9.5	7.6	-	-	-	7.0	8.6	6.9	9.7	8.7	9.4
	-	2.7	-	-	8.2	8.6	4.8	-	-	-	10.5	9.8	8.8	12.2	12.1	10.3
BRIBE	-	-	-	-	-	-	-	-	10.3	11.1	-	-	6.6	3.5	9.9	3.1
CASFL	-	4.5	9.7	7.4	10.5	7.1	0.2	1.7	-	-	9.1	9.8	9.5	6.8	-	-
	-	6.9	10.6	9.8	10.3	7.7	-	-	-	-	10.4	11.9	11.3	12.0	-	-
CRIST	-	9.6	8.1	10.7	9.8	7.6	4.5	0.5	-	8.0	9.0	-	10.0	-	-	-
	-	11.3	9.3	8.9	11.5	8.2	3.3	1.5	-	2.1	11.4	10.8	11.5	10.0	-	-
CURMA	8.3	-	-	6.7	6.6	-	-	4.8	7.2	-	-	-	-	-	-	-
ELTMA	-	3.1	8.1	9.3	7.0	10.2	3.1	-	-	-	10.3	10.7	9.3	10.2	-	-
GONRU	8.3	10.9	11.0	10.1	10.1	8.6	-	7.5	1.8	11.3	9.9	-	-	-	-	-
	11.1	9.1	8.7	9.6	8.3	7.8	-	8.5	2.4	10.3	9.1	-	-	-	-	7.3
GOVMI	1.8	-	-	-	7.2	9.6	4.1	4.0	-	-	10.7	11.5	10.2	12.1	12.2	3.3
HERCA	0.8	6.5	3.9	5.5	4.8	2.1	3.6	4.8	7.9	7.1	4.5	6.7	7.2	9.7	10.0	7.6
HINWO	-	-	-	-	-	11.2	-	-	-	-	1.0	5.1	-	11.6	-	-
IGAAN	-	-	-	-	7.2	10.6	6.1	-	-	-	-	-	9.3	-	9.3	8.9
	-	-	-	-	6.8	10.1	7.0	4.9	4.6	-	3.0	9.2	6.1	8.3	8.5	9.5
	0.7	-	0.4	-	5.2	8.7	4.9	3.5	-	-	8.7	5.3	7.2	7.8	11.9	2.8
JOBKL	10.8	8.6	-	-	6.4	-	-	-	-	11.2	-	-	-	-	7.7	-
	10.9	7.6	-	-	6.7	-	-	-	-	10.0	-	-	5.0	-	8.1	10.3
KACJA	-	-	-	-	8.4	-	2.8	-	-	-	-	-	10.2	9.4	8.3	-
	-	-	-	-	2.5	8.9	0.8	0.5	-	-	8.7	10.9	8.4	11.7	1.1	0.7

	-	-	-	-	3.9	9.7	5.8	-	-	-	-	10.8	11.3	7.2	-	-
	-	-	-	-	4.5	11.7	4.5	-	-	-	-	10.2	9.7	6.8	-	-
KERST	8.6	8.3	7.3	8.8	1.1	8.0	6.8	5.2	5.1	6.7	7.0	-	7.9	5.8	3.2	-
KOSDE	10.5	7.7	0.3	-	7.4	1.3	0.3	3.9	5.9	7.2	-	-	1.2	-	4.2	4.7
	5.1	0.5	-	-	-	-	-	0.6	1.9	-	-	-	1.0	-	1.0	-
LUNRO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5
MOLSI	-	-	3.3	-	-	8.5	-	-	-	5.7	7.7	6.9	9.9	11.0	1.4	-
	-	-	3.8	1.0	1.1	9.0	2.8	1.0	-	5.1	8.1	7.9	8.8	12.2	0.5	-
	-	3.4	2.6	0.4	4.7	4.7	6.2	1.2	9.4	7.0	1.2	-	3.3	2.1	2.7	5.2
	-	1.6	7.1	-	2.3	4.3	4.9	0.9	4.8	5.4	5.6	-	3.4	8.7	1.0	5.3
MORJO	1.8	-	0.4	-	7.8	11.8	-	-	-	-	6.8	9.4	8.3	10.5	10.5	8.9
OCHPA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTTMI	8.3	6.5	3.0	7.5	8.0	6.8	5.7	-	-	1.6	-	9.8	-	7.7	8.9	8.4
PERCZ	4.0	-	-	-	9.1	10.6	8.7	2.7	0.7	-	9.8	12.1	9.9	9.7	12.2	-
ROBBI	-	3.9	-	-	-	-	1.5	1.2	-	-	8.3	6.9	7.5	5.2	-	-
ROTEC	-	-	6.5	1.9	2.7	4.9	8.5	-	5.6	3.6	7.8	-	1.4	6.4	1.6	5.4
SCHHA	-	0.8	0.3	0.7	7.6	6.6	7.8	0.2	8.1	7.1	-	-	6.3	-	7.1	1.8
SLAST	-	-	-	-	5.0	9.1	1.6	-	-	-	9.0	9.3	9.4	9.0	2.1	-
STOEN	-	7.3	9.1	9.5	9.4	9.9	3.6	-	-	-	11.4	11.9	12.0	11.0	-	-
	-	7.2	10.4	5.3	8.8	10.4	3.9	-	-	-	9.8	11.0	12.0	11.5	-	-
	-	7.7	11.4	10.0	10.4	9.6	4.4	-	-	-	11.4	11.0	11.7	12.0	-	-
STORO	-	-	-	-	2.1	7.8	-	-	-	-	-	-	-	-	-	-
STRJO	-	2.4	-	0.3	3.4	2.0	3.9	-	9.9	1.2	-	-	3.2	-	5.6	1.8
	-	1.7	-	-	4.4	5.0	3.9	-	1.6	1.7	-	-	-	0.5	7.1	1.5
	-	5.1	-	-	7.2	3.4	4.6	-	10.0	3.1	-	-	5.8	10.3	6.8	2.7
TEPIS	-	-	-	-	-	10.2	2.9	1.6	-	-	9.4	11.9	8.7	10.3	11.7	12.1
YRJIL	4.0	2.4	-	-	-	2.5	3.1	10.6	-	-	0.4	4.0	-	4.0	-	-
Sum	99.9	147.3	135.3	129.2	267.4	304.3	157.8	77.5	101.5	126.5	244.4	251.3	295.2	296.9	199.8	137.5

3. Results (Meteors)

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	5	-	3	-	-	-	16	13	4	-	-	-	16	-	19
	3	-	-	-	-	-	3	-	2	-	-	-	3	-	4
BERER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	5	3	16	32	45	16	13	4	15	4
BRIBE	-	-	27	14	-	-	-	-	-	56	57	-	-	-	-
CASFL	2	14	-	-	20	23	12	-	28	17	15	21	-	-	-
	8	28	1	-	58	38	15	-	50	49	20	31	-	-	1
CRIST	20	19	3	-	48	54	30	29	37	2	41	9	40	44	4
	38	2	34	-	-	1	3	8	7	1	74	25	82	73	9
CURMA	-	-	-	-	-	-	-	-	-	13	-	-	-	-	57
ELTMA	-	19	6	-	-	21	50	45	38	46	16	33	-	32	30
GONRU	39	9	-	52	26	-	-	-	-	-	17	71	60	18	55
	23	9	-	44	15	-	-	-	-	-	17	26	40	18	40
GOVMI	-	-	6	15	-	2	33	21	24	39	33	28	20	33	16
HERCA	28	24	22	1	9	4	29	36	38	39	33	20	38	34	6
HINWO	40	-	16	27	-	-	-	-	17	51	75	13	-	-	-
IGAAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	3	35	5	-	8	12	2	20	24	30	46	32	24	-
	-	-	13	-	-	2	2	9	6	14	8	5	3	25	-
JOBKL	-	-	-	-	-	170	118	235	298	337	280	199	-	-	-
	-	-	-	-	-	93	74	131	194	179	165	100	-	-	-
KACJA	-	-	-	-	-	-	9	16	30	-	25	-	-	-	-
	-	2	3	2	-	-	23	31	8	10	16	7	-	23	1
	-	-	-	-	-	-	84	64	64	-	65	4	-	59	-
	-	-	-	-	-	-	15	22	9	20	14	2	-	-	-
KERST	-	48	10	17	35	42	17	-	-	-	-	-	-	-	-
KOSDE	-	3	-	56	-	57	-	53	-	116	24	12	10	-	16
	-	4	-	9	-	6	-	4	8	9	4	1	4	-	3
LUNRO	-	-	-	-	-	-	-	-	59	-	4	9	-	-	-
MOLSI	-	121	169	80	-	-	-	149	208	201	217	198	30	6	-
	-	29	40	28	-	-	49	48	59	72	51	49	9	2	2
	13	13	16	1	-	6	6	6	22	23	10	26	18	-	7
	9	24	48	5	-	8	14	5	38	16	3	10	26	-	3
MORJO	1	-	4	-	-	8	12	28	17	24	26	31	28	29	4

OCHPA	-	-	-	-	-	-	-	-	8	8	-	-	-	-	-
OTTMI	-	-	-	35	44	35	43	39	28	44	11	30	11	31	44
PERCZ	-	5	7	5	-	29	35	52	43	48	41	34	-	39	12
ROBBI	-	4	6	-	-	12	1	-	29	36	18	15	6	37	-
ROTEC	-	-	-	-	-	-	-	17	39	39	13	34	58	-	15
SCHHA	-	-	12	2	5	-	8	22	43	13	25	4	21	-	2
SLAST	-	3	-	-	-	-	10	23	18	27	19	16	-	33	-
STOEN	38	14	22	-	-	70	17	70	84	88	31	71	-	80	56
	35	16	21	-	-	50	10	59	97	84	34	63	-	96	48
	34	18	26	-	-	53	11	73	111	110	26	75	-	96	75
STORO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	6	-	13	10	17	-	-	17	24	23	18	1	25	-	-
	8	2	24	21	24	-	4	43	55	38	35	7	16	-	-
	15	4	45	22	44	-	-	44	60	63	53	12	47	-	-
TEPIS	-	-	-	-	-	44	9	80	58	69	72	61	56	64	-
YRJIL	28	12	2	17	58	46	12	-	-	14	-	38	-	-	1
Sum	409	449	634	468	403	887	789	1510	2014	2107	1752	1450	703	911	534

October	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BENOR	22	-	-	26	58	-	45	18	23	-	19	25	21	-	13	-
	1	-	-	-	10	-	13	1	-	-	6	4	-	-	2	-
BERER	-	-	-	-	59	66	49	-	-	-	30	36	19	29	22	25
	-	4	-	-	73	81	40	-	-	-	51	59	36	36	45	32
BRIBE	-	-	-	-	-	-	-	-	61	76	-	-	42	12	44	9
CASFL	-	22	50	26	66	72	1	5	-	-	31	41	34	22	-	-
	-	46	87	68	126	133	-	-	-	-	56	68	82	54	-	-
CRIST	-	40	84	114	164	103	22	1	-	39	114	-	96	-	-	-
	-	85	113	148	259	131	12	3	-	10	97	109	113	66	-	-
CURMA	100	-	-	124	185	-	-	73	73	-	-	-	-	-	-	-
ELTMA	-	7	52	54	127	135	14	-	-	-	62	61	61	44	-	-
GONRU	92	78	110	108	148	46	-	80	3	89	79	-	-	-	-	-
	47	73	66	93	110	66	-	115	7	96	59	-	-	-	-	35
GOVMI	4	-	-	-	74	82	4	39	-	-	64	48	63	71	70	11
HERCA	3	41	15	53	35	11	9	26	46	30	18	40	35	41	40	35
HINWO	-	-	-	-	-	98	-	-	-	-	3	28	-	71	-	-
IGAAN	-	-	-	-	81	158	52	-	-	-	-	-	53	-	57	35
	-	-	-	-	117	147	52	16	28	-	24	69	45	51	47	28
	3	-	1	-	24	75	19	23	1	-	46	13	31	19	26	24
JOBKL	397	187	-	-	200	-	-	-	-	169	-	-	-	-	101	-
	221	81	-	-	184	-	-	-	-	111	-	-	22	-	87	125
KACJA	-	-	-	-	90	-	25	-	-	-	-	-	49	53	26	-
	-	-	-	-	21	77	4	2	-	-	61	38	49	74	2	2
	-	-	-	-	44	182	81	-	-	-	-	64	88	76	-	-
	-	-	-	-	10	103	51	-	-	-	-	52	49	34	-	-
KERST	87	74	80	93	3	42	105	84	28	69	64	-	42	65	15	-
KOSDE	82	34	1	-	47	3	2	14	24	17	-	-	6	-	16	17
	15	3	-	-	-	-	-	4	5	-	-	-	4	-	4	-
LUNRO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71
MOLSI	-	-	23	-	-	146	-	-	-	65	81	66	133	150	12	-
	-	-	21	7	8	182	15	4	-	74	100	35	67	71	3	-
	-	10	4	2	81	49	65	3	69	34	3	-	13	6	7	11
	-	5	15	-	36	38	14	5	23	18	10	-	9	19	5	10
MORJO	3	-	1	-	57	83	-	-	-	-	36	47	39	47	29	32
OCHPA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
OTTMI	50	55	6	59	73	71	91	-	-	15	-	60	-	43	40	-
PERCZ	12	-	-	-	161	183	58	28	2	-	77	81	79	50	53	-
ROBBI	-	18	-	-	-	-	4	10	-	-	38	27	38	14	-	13
ROTEC	-	-	25	8	59	43	67	-	47	31	33	-	3	17	14	11
SCHHA	-	1	1	3	36	25	67	20	31	22	-	-	23	-	10	-
SLAST	-	-	-	-	12	49	4	-	-	-	30	38	36	45	2	-
STOEN	-	46	108	88	253	230	27	-	-	-	110	106	114	88	-	-
	-	48	101	52	185	200	21	-	-	-	97	117	140	95	-	-
	-	58	140	104	275	302	41	-	-	-	123	127	145	119	-	-
STORO	-	-	-	-	22	339	-	-	-	-	-	-	-	-	-	6
STRJO	-	10	-	1	17	9	24	-	50	3	-	-	12	-	24	7
	-	8	-	-	32	22	15	-	28	5	-	-	-	2	45	14
	-	25	-	-	55	27	37	-	98	8	-	-	41	43	52	61

TEPIS	-	-	-	-	-	156	8	23	-	-	85	110	64	65	68	-
YRJIL	27	13	-	-	-	48	12	92	-	-	4	8	-	14	-	-
Sum	1166	1072	1104	1231	3677	4013	1170	689	647	981	1711	1577	1996	1706	981	657

October came with all prerequisites for a splendid monthly result: As in August, a total of 50 video cameras were active. The fine weather presented many observing nights to most observers, and Carl Hergenrother once more did not miss even a single night. Highlights of the month were October 9 and 21, when about 40 cameras collected a total of 300 observing hours. In addition, October is one of the most interesting seasons with the Orionids, Taurids and a number of minor showers active. Even though the weather deteriorated just at the Orionid maximum and the sky became moonlit by that time (full Moon on October 23), we simply had to break the record again. And how we did! With almost 5,600 hours we collected 20% more effective observing time than in August 2010, and also the meteor count increased by 20% to almost 40,000. On average, we recorded 7.1 meteors per hour – just as many as in August and one meteor per hour more than the long-term October average.

In October, another camera (HULUD1, operated by Erno Berko) started regular observation in Hungary. In addition, we could welcome an English observer in our midst again. Malcolm Currie contributed first Orionid observations with his camera MIC4.

At the same time we received the sad news, that the British amateur astronomer Andrew Elliot died on November 28 after long illness. He was a technology affine, versatile and always helpful amateur that used his video equipment not just for lunar occultations (his primary hobby-horse), but occasionally also for meteor observation. With Andrew we lose a valuable advisor and good friend.

October showed once more a limit: A single person is overcharged when collecting, checking and archiving such large data sets alone. For this reason we are about to establish a new collaboration model, where a number of experienced observers contribute to the verification of observations.

With respect to meteor showers, October was dominated expectedly by the Orionids. The analysis of last month had shown, that their activity started already around September 25. Now we could extend the activity profile by the full month of October (figure 1). The graph is based on 12,300 Orionids and 21,000 sporadic meteors, recorded between September 25 and October 31, 2010. Until about October 10, the Orionid activity remained at a constantly low level. Thereafter it rose day by day and reached a peak on October 22/23. In that night, 2.7 Orionids were recorded for each sporadic meteor, which is the same ratio as at last year's maximum.

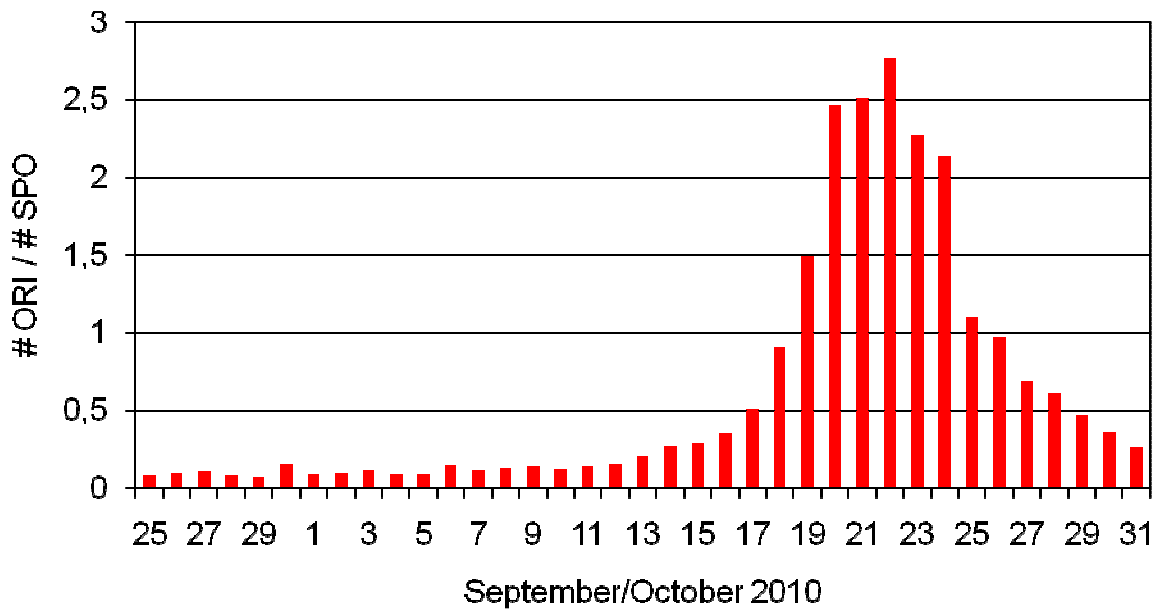


Figure 1: Activity profile of the Orionids in 2010. In this and all following figures, the ratio between the number of shower meteors and Sporadics is displayed for each night.

Let's have a look at the Taurids next. The long-term analysis of 2009 revealed that the southern branch is active first, reaching its maximum on October 10. The northern branch peaks about one month later on November 13. That was confirmed by the 2010 data set (figure 2). In the beginning, the southern Taurids were slightly dominating. They reached their maximum on October 15, and thereafter the rate slowly declined. The activity of the northern Taurids, however, increased slowly but constantly in all of October. By the end of the month, the northern branch had overtaken the southern.

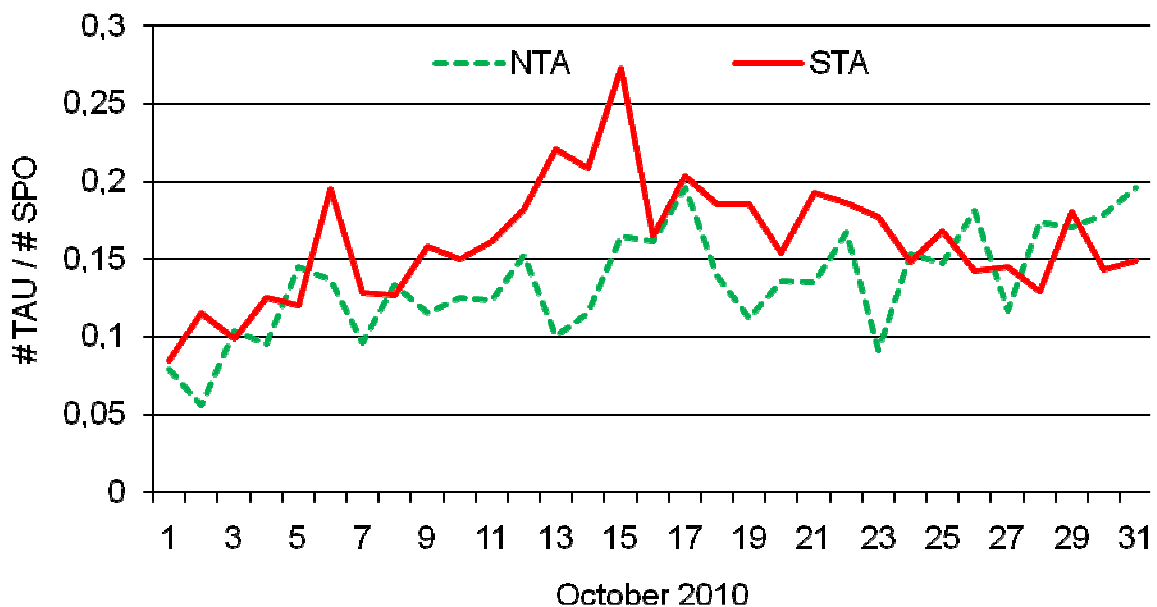


Figure 2: Activity profiles of the northern and southern Taurids in 2010.

There was no sign of the Draconids in the first decade of October. Also the October Ursae Majorids remained within the sporadic background with a total of 240 shower meteors (figure 3). Only on October 15/16 they were clearly noticeable with about 15% of the sporadic meteor count. That date matches exactly to the maximum found in the 2009 shower analysis. In the last decade we recorded more than 300 Leonis Minorids. They were slightly above the sporadic background for a couple of days and reached their maximum with only about 10% of

the sporadic count together with the Orionids. Also that agrees with the 2009 analysis, when the maximum was determined at October 23.

Still, the October Camelopardalids remain my favorite shower thanks to their extremely short duration. Last year's analysis revealed a maximum at solar longitude 192.6 degrees with a full width at half maximum (FWHM) of about six hours. This year, that came down to 3 o'clock UT on October 6. As expected, we observed highest rates with 46 shower meteors in the night of October 5/6. Their count was 20% of the sporadic count with most shower meteors occurring in the half hour intervals 01:00-01:30 and 03:00-03:30. Hence, the October Camelopardalids were the most active shower in that night. In the night before and thereafter, their activity was by a factor of five lower – the shower could not be recognized anymore in the sporadic background.

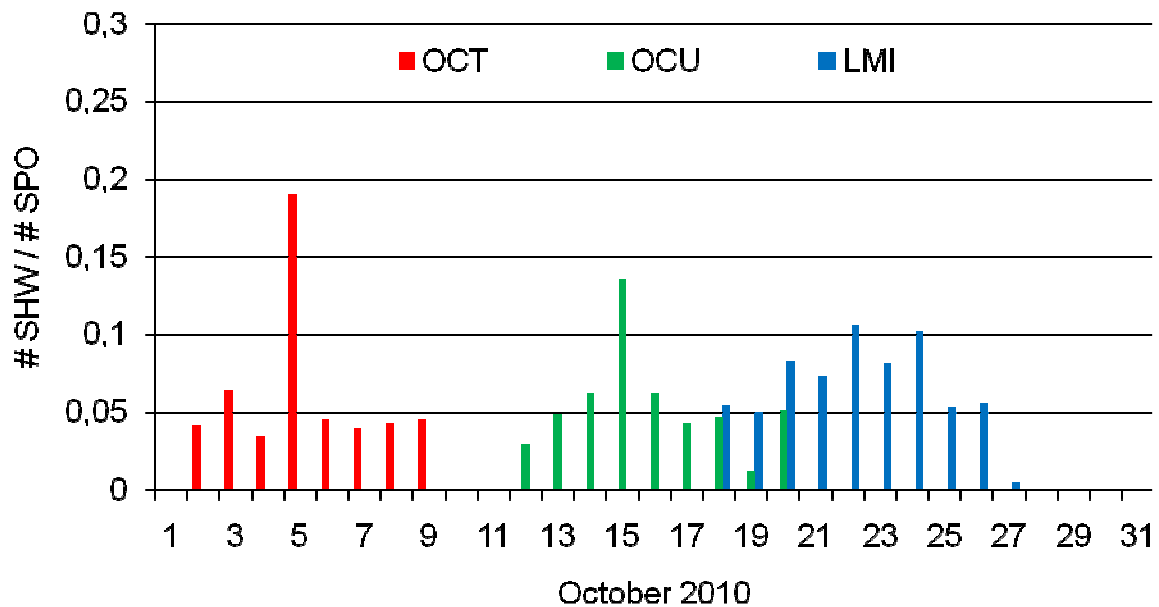


Figure 3: Activity profiles of the October Camelopardalids, October Ursae Majorids and Leonis Minorids in 2010.