

Results of the IMO Video Meteor Network – September 2010

Sirko Molau, Abenstalstr. 13b, 84072 Seysdorf

2010/11/04

1. Observers

Code	Name	Place	Camera	FOV [°]	St.LM [mag]	Eff.CA [km ²]	Nights	Time [h]	Tot. CA [10 ³ km ² h]	Meteors
BENOR	Benitez-S.	Las Palmas	TIMES4 (1.4/50)	2359	-	-	16	62.1	-	186
			TIMES5 (0.95/50)	33	7.0	261	14	17.3	-	44
BRIBE	Brinkmann	Herne	HERMINE (0.8/6)	2374	4.2	1084	22	114.7	-	471
CASFL	Castellani	Monte Baldo	BMH1 (0.8/6)	2350	-	-	19	82.6	-	262
			BMH2 (1.5/4.5)*	4243	-	-	22	104.2	-	424
CRIST	Crivello	Valbrenvena	C3P8 (0.8/3.8)	5575	-	-	22	140.4	-	729
			STG38 (0.8/3.8)	5593	-	-	28	182.1	-	1431
ELTMA	Eltri	Venezia	MET38 (0.8/3.8)	5620	-	-	13	93.7	-	342
GONRU	Goncalves	Tomar	TEMPLAR1 (0.8/6)*	2188	5.3	2331	25	173.4	276.0	856
			TEMPLAR2 (0.8/6)*	2303	5.0	2397	25	154.8	299.1	628
GOVMI	Govedic	Sredisce ob Dravi	ORION2 (0.8/8)	1471	6.0	3916	22	101.7	-	403
HERCA	Hergenrother	Tucson	SALSA3 (1.2/4)*	4332	4.0	1471	28	169.9	-	662
HINWO	Hinz	Brannenburg	AKM2 (0.85/25)*	754	5.7	1306	13	65.3	79.8	327
IGAAN	Igaz	Baja	HUBAJ (0.8/3.8)	5600	4.3	3338	12	57.7	109.2	174
		Hodmezovasarhely	HUHOD (0.8/3.8)	5609	4.2	3031	19	107.8	268.4	420
		Budapest	HUPOL (1.2/4)	3929	3.5	1144	18	56.8	57.2	136
JOBKL	Jobse	Oostkapelle	BETSY2 (1.2/85)*	1725	-	-	4	21.3	-	558
			KLARA2 (1.2/85)*	1564	-	-	5	29.6	-	309
KACJA	Kac	Kostanjevec	METKA (0.8/8)*	1381	4.0	2246	10	44.5	37.5	136
			ORION1 (0.8/8)	1420	5.3	2336	20	56.4	51.3	218
			REZIKA (0.8/6)	2307	5.0	2293	12	50.1	73.5	373
			STEFKA (0.8/3.8)	5540	4.2	2882	11	43.4	71.5	137
KERST	Kerr	Glenlee	GOCAM1 (0.8/3.8)	5238	4.2	2637	17	98.2	228.7	571
KOSDE	Koschny	Noordwijkerhout	LIC4 (1.4/50)*	2027	-	-	14	62.9	-	687
			TEC1 (1.4/12)	741	5.6	1133	19	28.8	-	89
LUNRO	Lunsford	Chula Vista	BOCAM (1.4/50)*	1860	-	-	14	74.5	-	365
MOLSI	Molau	Seysdorf	AVIS2 (1.4/50)*	1771	6.1	4182	17	93.1	215.3	1122
			MINCAM1 (0.8/8)	1477	4.9	1716	24	112.1	149.2	593
			REMO1 (0.8/3.8)	5592	3.0	974	23	89.6	93.1	297
			REMO2 (0.8/3.8)	5635	4.3	2846	22	90.7	177.8	289
			HUFUL (1.4/5)	2522	3.5	532	20	83.1	44.5	209
MORJO	Morvai	Fülöpszallas	HUFUL (1.4/5)	2522	3.5	532	20	83.1	44.5	209
OCHPA	Ochner	Albiano	ALBIANO (1.2/4.5)	1971	-	-	13	53.4	-	107
OTTMI	Otte	Pearl City	ORIE1 (1.4/5.7)	3837	-	-	13	59.3	-	247
PERZS	Perko	Becsehely	HUBEC (0.8/3.8)*	5448	3.4	1500	12	48.2	34.9	141
ROBBI	Roberto	Verona	FIAMENE (0.8/3.8)	5632	-	-	12	60.1	-	174
ROTEC	Rothenberg	Berlin	ARMEFA (0.8/6)	2369	-	-	18	85.6	-	332
SCHHA	Schremmer	Niederkrüchten	DORAEMON (0.8/3.8)	5537	-	-	16	59.6	-	195
SLAST	Slavec	Ljubljana	KAYAK1 (1.8/28)	596	-	-	11	35.2	-	107
STOEN	Stomeo	Scorze	MIN38 (0.8/3.8)	5631	-	-	19	122.8	-	876
			NOA38 (0.8/3.8)	5609	-	-	18	118.6	-	795
			SCO38 (0.8/3.8)	5598	-	-	19	124.0	-	1056
			MINCAM2 (0.8/6)	2357	-	-	9	33.8	-	125
STRJO	Strunk	Herford	MINCAM3 (0.8/12)	728	-	-	18	62.4	-	233
			MINCAM5 (0.8/6)	2344	-	-	9	48.6	-	234
			HUMOB (0.8/6)	2375	4.9	2258	13	79.3	99.1	405
YRJIL	Yrjölä	Kuusankoski	FINEXCAM (0.8/6)	2337	-	-	17	65.5	-	299
Sum							30	3719.2		18774

* active field of view smaller than video frame

2. Observing Times (h)

September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	5.2	4.0	-	1.7	-	-	3.9	4.8	5.2	3.0	3.4	-	-	-	-
BRIBE	0.7	0.1	-	1.3	-	-	1.4	0.5	-	0.7	0.8	-	-	-	-
CASFL	7.6	3.3	6.9	8.3	9.5	2.8	-	7.1	7.8	2.2	5.5	4.0	1.0	-	3.4
	8.0	-	0.3	-	-	-	-	3.2	1.2	8.5	6.4	2.4	5.8	6.5	1.9
	8.2	3.2	-	-	0.3	-	-	4.1	2.8	9.4	8.8	6.1	4.3	10.0	1.5
CRIST	8.9	4.4	7.1	5.4	-	-	-	5.2	6.5	9.4	7.1	6.5	6.5	8.1	-
	9.0	6.9	8.1	5.8	8.0	1.5	1.0	9.1	7.6	9.4	9.1	7.2	8.1	9.7	6.1
ELTMA	7.9	-	7.0	3.0	-	-	-	-	-	7.1	5.4	7.2	-	6.9	5.7
GONRU	6.3	7.5	9.0	7.4	6.5	-	4.8	7.6	8.8	8.7	9.6	9.5	8.3	2.8	2.5
	7.2	8.3	7.4	7.9	5.2	-	3.8	7.1	7.5	8.4	8.9	8.3	8.6	4.2	2.2
GOVMI	7.8	6.7	0.6	3.5	1.5	4.4	0.4	0.4	0.7	-	3.6	9.6	1.8	4.6	5.2
HERCA	5.8	7.0	5.3	6.3	6.7	7.4	5.5	0.2	5.5	8.0	8.3	6.4	2.1	8.1	8.0

HINWO	6.0	-	1.4	-	2.5	1.4	1.3	-	2.6	2.0	8.9	5.0	-	-	-
IGAAN	8.9	5.1	3.4	-	4.7	2.5	4.9	3.1	-	-	-	-	-	9.4	4.7
	3.9	5.0	7.4	-	7.9	5.0	-	1.6	-	-	-	4.7	2.3	9.4	-
	6.6	-	1.8	1.0	6.9	5.8	-	-	0.4	-	-	2.2	3.5	1.5	-
JOBKL	-	-	-	-	7.9	-	-	-	-	-	-	6.7	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-
KACJA	6.7	4.7	-	-	-	2.9	-	-	-	-	6.3	6.8	-	0.9	-
	7.8	6.6	0.5	1.5	-	1.0	-	-	-	3.0	5.1	4.1	4.8	0.8	2.6
	9.0	6.5	0.7	-	-	-	-	-	-	0.3	6.8	3.3	0.3	-	-
	9.0	7.9	0.5	-	-	-	-	-	-	0.6	6.1	3.4	0.3	-	-
KERST	8.0	8.9	2.3	0.7	0.5	-	5.3	6.6	7.1	-	8.6	7.6	9.3	8.3	8.7
KOSDE	6.5	6.5	6.8	6.8	6.8	1.0	2.2	-	3.7	-	-	5.6	-	4.0	3.8
	1.9	3.6	2.8	4.2	3.0	-	-	-	0.3	1.1	-	1.0	-	1.7	1.2
LUNRO	-	-	-	-	-	-	-	-	-	5.8	-	-	6.8	5.6	4.4
MOLSI	6.2	-	4.5	3.2	6.8	4.9	1.1	-	7.3	4.8	8.5	3.7	-	-	-
	8.8	-	2.4	1.9	7.1	2.0	2.6	0.6	5.5	4.7	9.5	5.4	5.9	4.6	0.6
	3.1	2.3	1.9	2.9	7.2	8.8	5.3	-	-	5.6	4.8	0.2	1.6	-	3.8
	4.7	-	4.4	3.8	8.6	8.8	6.1	-	-	4.2	8.1	0.3	4.1	-	3.7
MORJO	5.4	1.7	4.0	-	0.7	6.7	-	-	-	-	-	6.4	1.7	4.1	2.5
OCHPA	2.1	3.2	-	-	-	-	-	-	-	1.2	2.3	4.2	-	2.3	-
OTTMI	0.1	2.9	-	4.6	6.8	-	-	7.2	5.3	-	-	6.4	7.2	3.0	7.7
PERCZ	-	-	0.9	3.8	2.5	6.8	-	-	2.4	-	-	8.0	1.0	7.3	7.5
ROBBI	-	-	0.7	-	-	-	-	1.5	-	-	7.0	-	-	-	1.5
ROTEC	6.7	-	4.9	4.2	8.8	4.1	5.1	-	-	7.6	9.2	0.3	5.2	-	2.3
SCHHA	6.2	1.7	7.4	3.9	-	-	-	-	-	-	3.7	1.1	-	-	2.2
SLAST	-	5.7	-	2.9	0.9	-	-	-	-	-	-	-	-	1.8	4.3
STOEN	7.6	-	-	2.7	2.3	-	-	5.2	-	9.6	9.6	8.0	9.7	8.4	-
	-	-	-	3.7	1.7	-	-	4.9	-	9.5	9.6	8.0	9.7	8.4	-
	7.5	-	-	2.1	1.3	-	-	6.4	-	9.6	9.6	7.9	8.6	8.0	-
STRJO	3.3	1.9	-	6.9	6.2	5.6	-	-	-	-	4.6	-	-	-	-
	3.7	1.2	0.7	6.8	6.9	7.7	-	-	-	-	6.0	-	-	-	0.9
	5.3	2.3	-	8.3	7.3	7.1	-	-	-	-	5.6	-	-	-	-
TEPIS	5.5	-	1.4	-	7.6	7.3	-	-	-	-	-	4.6	-	1.0	-
YRJIL	0.3	-	-	-	-	3.6	-	4.9	7.8	0.8	-	-	-	2.5	2.9
Sum	233.4	129.1	112.5	126.5	160.6	109.1	54.7	91.3	96.0	145.2	216.8	188.5	128.5	153.9	101.8

September	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
BENOR	-	2.9	3.9	6.2	4.5	-	-	-	-	-	-	5.1	3.6	2.9	1.8
	-	1.4	1.9	-	3.3	-	-	-	-	-	-	3.3	0.6	1.0	0.3
BRIBE	0.5	2.5	10.0	2.4	7.0	7.0	8.7	-	-	2.2	5.0	-	-	-	-
CASFL	-	-	1.8	0.3	4.8	6.1	6.7	2.7	-	5.9	-	-	5.1	5.0	-
	-	-	2.1	0.5	9.3	5.7	7.7	1.3	-	1.8	-	2.6	5.9	8.2	0.4
CRIST	-	-	1.6	7.2	3.0	7.6	10.1	7.3	3.9	10.2	1.0	-	9.4	4.0	-
	0.5	-	-	9.2	2.8	8.8	9.6	7.5	3.0	9.4	5.0	1.8	8.4	7.6	1.9
ELTMA	-	-	-	-	9.9	9.2	8.5	6.5	-	-	-	-	-	9.4	-
GONRU	7.0	0.9	9.1	7.4	8.8	7.3	-	-	-	-	9.7	7.4	6.5	1.9	8.1
	5.7	0.6	5.5	4.6	5.4	5.1	-	-	-	-	9.8	6.7	7.1	1.6	7.7
GOVMI	-	-	-	10.0	10.0	10.1	8.2	7.8	0.3	-	-	2.5	-	2.0	-
HERCA	7.0	6.5	7.7	10.1	6.2	4.2	-	2.1	6.9	-	4.8	6.6	4.1	6.8	6.3
HINWO	-	-	-	9.4	9.4	9.5	5.9	-	-	-	-	-	-	-	-
IGAAN	-	-	-	3.4	-	-	2.6	5.0	-	-	-	-	-	-	-
	-	-	-	2.8	5.9	5.8	9.5	7.7	5.2	-	-	6.7	4.6	4.7	7.7
	-	-	-	6.4	2.5	0.4	2.8	3.0	5.2	-	-	-	0.8	5.2	0.8
JOBKL	5.1	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-
	6.1	4.6	-	-	3.5	-	-	-	-	-	-	9.0	-	-	-
KACJA	-	-	-	-	-	8.0	6.0	-	-	-	-	1.4	-	0.8	-
	-	-	-	1.5	4.0	3.7	2.7	0.3	0.1	-	-	1.4	0.6	4.3	-
	-	-	-	0.3	7.1	7.7	7.8	0.3	-	-	-	-	-	-	-
	-	-	-	-	2.7	3.9	6.2	2.8	-	-	-	-	-	-	-
KERST	5.1	1.2	-	-	-	-	-	-	-	-	3.2	-	-	-	6.8
KOSDE	1.3	3.5	-	-	-	-	-	-	-	-	-	-	-	-	4.4
	0.8	0.4	-	-	1.2	1.5	1.6	-	0.1	0.1	0.3	-	-	-	2.0
LUNRO	6.4	1.0	6.3	4.7	5.7	-	-	-	6.8	5.2	5.4	7.2	3.2	-	-
MOLSI	-	-	-	7.8	8.1	9.5	8.8	0.7	-	-	-	2.9	-	4.3	-
	0.8	7.5	5.2	9.9	-	8.6	6.5	3.8	-	-	4.1	1.7	-	2.4	-
	2.8	4.1	8.0	-	2.0	6.7	4.8	2.4	0.7	-	-	-	2.7	2.0	5.9
	1.9	0.7	4.0	-	4.2	6.4	4.9	6.5	0.8	-	-	-	0.2	0.7	3.6

MORJO	0.4	-	-	4.4	6.5	7.5	6.5	4.1	6.2	-	-	2.0	1.7	2.4	8.2
OCHPA	-	-	-	-	4.8	4.4	3.7	4.7	-	5.4	-	-	7.9	7.2	-
OTTMI	0.3	6.3	1.5	-	-	-	-	-	-	-	-	-	-	-	-
PERCZ	-	-	-	-	-	-	-	-	-	-	-	5.3	0.7	2.0	-
ROBBI	-	-	-	-	7.5	8.4	8.4	2.4	-	5.6	-	2.6	6.5	8.0	-
ROTEC	0.4	3.3	8.2	1.0	0.2	6.4	7.7	-	-	-	-	-	-	-	-
SCHHA	1.9	2.5	4.8	0.6	3.8	6.9	-	-	0.6	2.8	9.5	-	-	-	-
SLAST	-	-	-	2.4	5.1	4.4	3.4	-	-	-	-	-	1.0	3.3	-
STOEN	-	-	-	3.4	9.0	10.2	8.9	2.5	-	5.6	1.6	2.1	5.8	10.6	-
	-	-	-	3.4	10.0	9.2	8.4	2.2	-	7.4	2.1	3.6	6.2	10.6	-
	-	-	-	3.0	9.7	10.2	9.7	1.1	-	6.7	2.8	3.0	7.0	9.8	-
STRJO	-	-	-	-	-	2.8	1.5	-	-	-	1.0	-	-	-	-
	-	0.3	7.6	0.3	1.7	4.4	1.8	4.5	-	-	0.4	-	0.8	6.7	-
	-	-	-	-	-	7.4	4.9	-	-	-	0.4	-	-	-	-
TEPIS	-	-	-	8.9	9.0	9.6	8.1	8.3	3.8	-	-	-	-	-	4.2
YRJIL	1.7	1.1	3.7	-	2.3	-	-	1.4	-	-	7.5	6.2	8.6	1.0	9.2
Sum	55.7	52.9	92.9	131.5	200.9	234.6	202.6	98.9	43.6	68.3	82.6	82.1	109.0	136.4	79.3

3. Results (Meteors)

September	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	11	11	-	5	-	-	13	18	15	7	10	-	-	-	-
	3	1	-	2	-	-	3	2	-	2	2	-	-	-	-
BRIBE	27	10	31	42	53	6	-	25	26	5	16	15	2	-	19
CASFL	23	-	1	-	-	-	-	12	4	30	18	8	21	20	5
	30	7	-	-	1	-	-	24	16	41	28	16	25	45	5
CRIST	47	28	34	13	-	-	-	23	43	53	51	29	33	35	-
	100	56	59	49	60	3	6	57	80	91	92	51	71	82	24
ELTMA	31	-	18	7	-	-	-	-	-	35	27	35	-	26	12
GONRU	26	47	53	43	26	-	28	61	56	50	45	49	38	7	3
	25	30	24	41	20	-	12	35	42	36	37	31	36	12	7
GOVMI	40	25	2	21	2	9	1	1	1	-	13	53	5	14	15
HERCA	26	26	17	35	23	33	29	3	21	32	42	29	6	28	34
HINWO	37	-	2	-	26	1	4	-	4	18	62	27	-	-	-
IGAAN	47	11	12	-	9	14	13	6	-	-	-	-	-	27	10
	18	15	25	-	27	30	-	6	-	-	-	11	6	37	-
	25	-	3	6	18	10	-	-	1	-	-	4	7	1	-
JOBKL	-	-	-	-	273	-	-	-	-	-	-	157	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	97	-	-	-
KACJA	26	10	-	-	-	6	-	-	-	-	12	33	-	2	-
	31	27	3	5	-	3	-	-	-	9	20	19	17	3	9
	54	39	6	-	-	-	-	-	-	1	39	69	3	-	-
	30	31	2	-	-	-	-	-	-	6	20	11	2	-	-
KERST	51	61	10	2	1	-	31	30	46	-	49	59	64	45	54
KOSDE	74	104	96	91	124	3	6	-	32	-	-	30	-	22	46
	7	8	7	11	9	-	-	-	2	3	-	3	-	5	6
LUNRO	-	-	-	-	-	-	-	-	-	35	-	-	33	32	15
MOLSI	107	-	30	24	164	15	19	-	101	31	123	39	-	-	-
	47	-	4	5	43	3	6	2	33	32	72	30	16	20	2
	6	9	7	8	27	33	15	-	-	12	29	1	2	-	8
	10	-	14	10	35	33	13	-	-	6	46	1	8	-	9
MORJO	17	6	6	-	2	18	-	-	-	-	-	11	6	12	5
OCHPA	2	3	-	-	-	-	-	-	-	2	3	5	-	4	-
OTTMI	1	12	-	17	39	-	-	30	15	-	-	33	25	12	25
PERCZ	-	-	2	12	6	20	-	-	5	-	-	42	6	17	11
ROBBI	-	-	2	-	-	-	-	9	-	-	18	-	-	-	4
ROTEC	27	-	26	22	30	18	24	-	-	23	48	2	20	-	7
SCHHA	15	5	23	11	-	-	-	-	-	-	16	17	-	-	9
SLAST	-	37	-	5	1	-	-	-	-	-	-	-	-	10	16
STOEN	79	-	-	6	13	-	-	41	-	69	104	61	81	67	-
	-	-	-	6	7	-	-	42	-	90	89	67	76	64	-
	75	-	-	4	9	-	-	57	-	100	98	72	84	90	-
STRJO	12	5	-	22	28	18	-	-	-	-	17	-	-	-	-
	18	3	4	22	29	24	-	-	-	-	22	-	-	-	4
	29	8	-	44	52	26	-	-	-	-	24	-	-	-	-
TEPIS	34	-	3	-	41	47	-	-	-	-	-	18	-	4	-

YRJIL	1	-	-	-	-	23	-	16	49	2	-	-	-	9	17
Sum	1269	635	526	591	1198	396	223	500	592	821	1292	1235	693	752	381

September	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
BENOR	-	12	10	20	12	-	-	-	-	-	-	15	12	9	6
	-	2	4	-	10	-	-	-	-	-	-	7	3	2	1
BRIBE	1	11	42	12	31	39	35	-	-	5	18	-	-	-	-
CASFL	-	-	6	1	17	17	22	8	-	21	-	-	16	12	-
	-	-	9	2	40	21	35	7	-	2	-	11	26	32	1
CRIST	-	-	3	55	13	27	48	28	18	61	4	-	69	14	-
	1	-	-	87	26	55	71	40	29	90	9	13	89	33	7
ELTMA	-	-	-	-	41	36	33	15	-	-	-	-	-	26	-
GONRU	36	4	44	31	38	22	-	-	-	-	29	40	37	7	36
	20	2	29	18	20	11	-	-	-	-	40	31	31	4	34
GOVMI	-	-	-	49	39	39	31	23	1	-	-	9	-	10	-
HERCA	33	27	24	23	20	13	-	6	21	-	22	26	15	22	26
HINWO	-	-	-	40	42	39	25	-	-	-	-	-	-	-	-
IGAAN	-	-	-	8	-	-	4	13	-	-	-	-	-	-	-
	-	-	-	6	28	20	28	24	15	-	-	35	26	22	41
	-	-	-	10	4	2	4	8	11	-	-	-	3	17	2
JOBKL	89	39	-	-	-	-	-	-	-	-	-	-	-	-	-
	62	22	-	-	26	-	-	-	-	-	102	-	-	-	-
KACJA	-	-	-	-	-	21	18	-	-	-	-	5	-	3	-
	-	-	-	6	9	14	11	2	1	-	-	4	3	22	-
	-	-	-	1	57	57	46	1	-	-	-	-	-	-	-
	-	-	-	-	7	6	15	7	-	-	-	-	-	-	-
KERST	23	4	-	-	-	-	-	-	-	-	12	-	-	-	29
KOSDE	20	20	-	-	-	-	-	-	-	-	-	-	-	-	19
	3	1	-	-	3	6	4	-	1	1	2	-	-	-	7
LUNRO	25	10	42	17	31	-	-	-	28	31	24	32	10	-	-
MOLSI	-	-	-	130	138	86	72	2	-	-	-	19	-	22	-
	2	44	28	52	-	63	34	12	-	-	29	9	-	5	-
	10	7	30	-	8	14	18	8	4	-	-	-	15	8	18
	11	8	14	-	16	10	10	20	2	-	-	-	1	4	8
MORJO	1	-	-	9	15	21	17	12	16	-	-	5	6	4	20
OCHPA	-	-	-	-	10	10	16	7	-	13	-	-	20	12	-
OTTMI	1	32	5	-	-	-	-	-	-	-	-	-	-	-	-
PERCZ	-	-	-	-	-	-	-	-	-	-	-	12	2	6	-
ROBBI	-	-	-	-	23	24	24	7	-	17	-	8	20	18	-
ROTEC	1	4	31	2	2	22	23	-	-	-	-	-	-	-	-
SCHHA	4	9	12	2	9	28	-	-	2	5	28	-	-	-	-
SLAST	-	-	-	4	15	6	5	-	-	-	-	-	1	7	-
STOEN	-	-	-	36	69	75	44	12	-	22	5	10	37	45	-
	-	-	-	38	59	72	46	11	-	36	6	8	39	39	-
	-	-	-	47	93	83	77	12	-	30	8	13	54	50	-
STRJO	-	-	-	-	-	15	6	-	-	-	2	-	-	-	-
	-	1	37	1	8	15	6	12	-	-	1	-	2	24	-
	-	-	-	-	-	22	28	-	-	-	1	-	-	-	-
TEPIS	-	-	-	52	46	61	42	31	11	-	-	-	-	-	15
YRJIL	5	3	9	-	9	-	-	5	-	-	36	29	35	3	48
Sum	348	262	379	759	1034	1072	898	333	160	334	378	341	572	482	318

In September, the weather conditions in Europe slightly reversed: The more northern observers enjoyed better conditions than in the month before, whereas most observers south of the Alps collected fewer clear nights. 13 out of 48 cameras recorded meteors in twenty or more nights. With more than 3,700 hours, the effective observing time reduced by 350 hours compared to 2009. The number of meteors, however, increased by more than 3,000 to almost 19,000. Once more, the camera network grew slightly: Klaas Jobse started observation with his second intensified camera KLARA2 in September.

Until the end of the month, about half of all cameras had switched to the new version of MetRec, so that the effective collection area could be calculated. The total collection area, however, was given in table 1 only for those cameras that provided reliable limiting magnitudes and therefore effective collection areas in the full month. In addition we abstained from listing the same field of view for all cameras with the same lens contrary to what was announced in the last report. A closer analysis had revealed, that the small

deviations between the cameras are not only measurement errors, but represent also real differences due to tiny variations in the focal length.

With an long-term average of 4.5 meteors per hour, September is a transitional month between the peak months August (7.0) and October (5.9). The latest analysis of meteor showers in the Perseus-Auriga region showed, that there is a bunch of minor showers near the northern Apex source. With the September Perseids (208 SPE), one of these shall be analyzed here in more detail. Only recently the SPE were corrected in the IMO working list and “shifted” into the right position. In addition, we have a closer look at the nu Eridanids (337 NUE) and September iota Cassiopeiids (416 SIC) as in the last year. The analyses are based on data of 677 SPE, 91 SIC and 893 NUE atop of 14,000 sporadic meteors. As usual, the ratio of the shower and sporadic meteor counts per night was used as an activity measure.

In this year, the September epsilon Perseids show a classical profile with a distinct maximum of about 25% of the sporadic meteors in the night of September 9/10 (figure 1). That date matches perfectly to the value found in the last long-term analysis (solar longitude 167°). It is also consistent, that rates at the ascending are slightly higher than at the descending branch – only the maximum is more pronounced than in the long-term analysis.

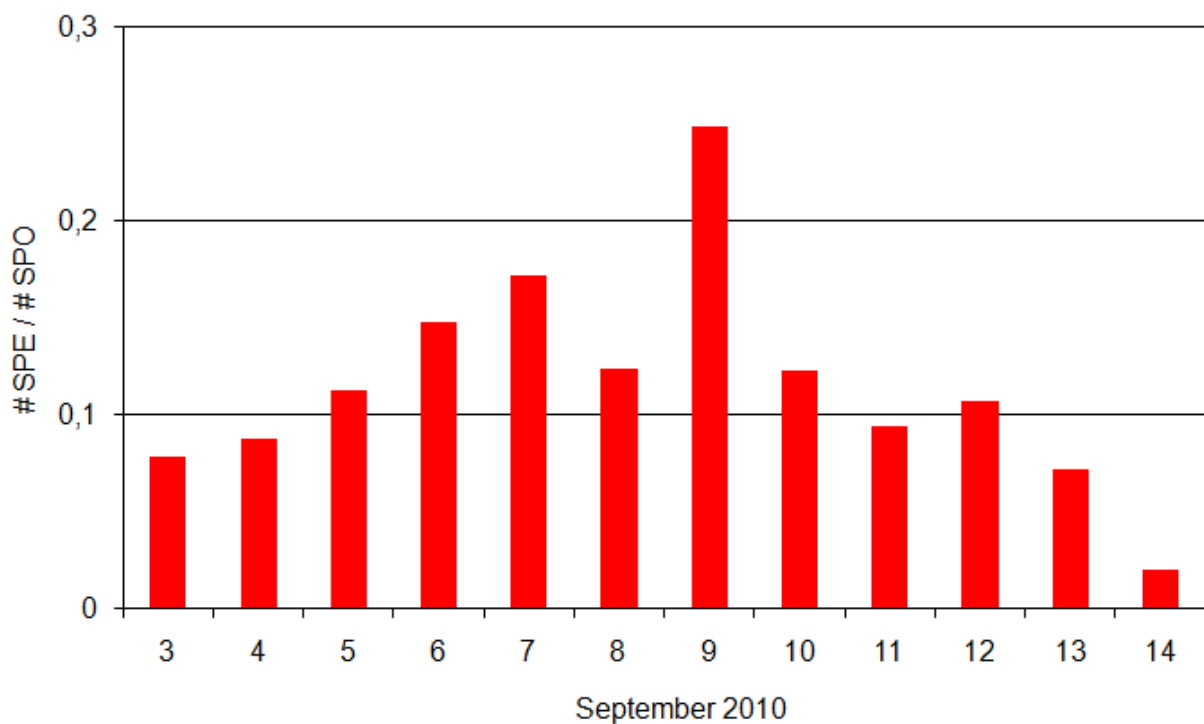


Figure 1: Activity profile of the September Perseids in September 2010. The ratio of shower and sporadic meteor is plotted for each night.

The nu Eridanids and September iota Cassiopeiids are even weaker showers. To assess, whether their activity graphs show real structures or only random fluctuations, the profile from the monthly analysis in September 2009 was plotted in parallel to the new 2010 values (figure 2).

In both years, the nu Eridanids show an approximately constant activity of 7-8% of the sporadic meteor count. The highest rate was observed on September 16, 2010, but the profile shows also a few sub-maxima. It is amazing that even these structures match reasonably well in both years.

The September iota Cassiopeiids reached again only about 4% of the sporadic meteor count. Their maximum (September 9) occurred one day later than in the year before.

The good agreement between both years is encouraging. It indicates that activity profiles of even such weak showers do not only show random fluctuations.

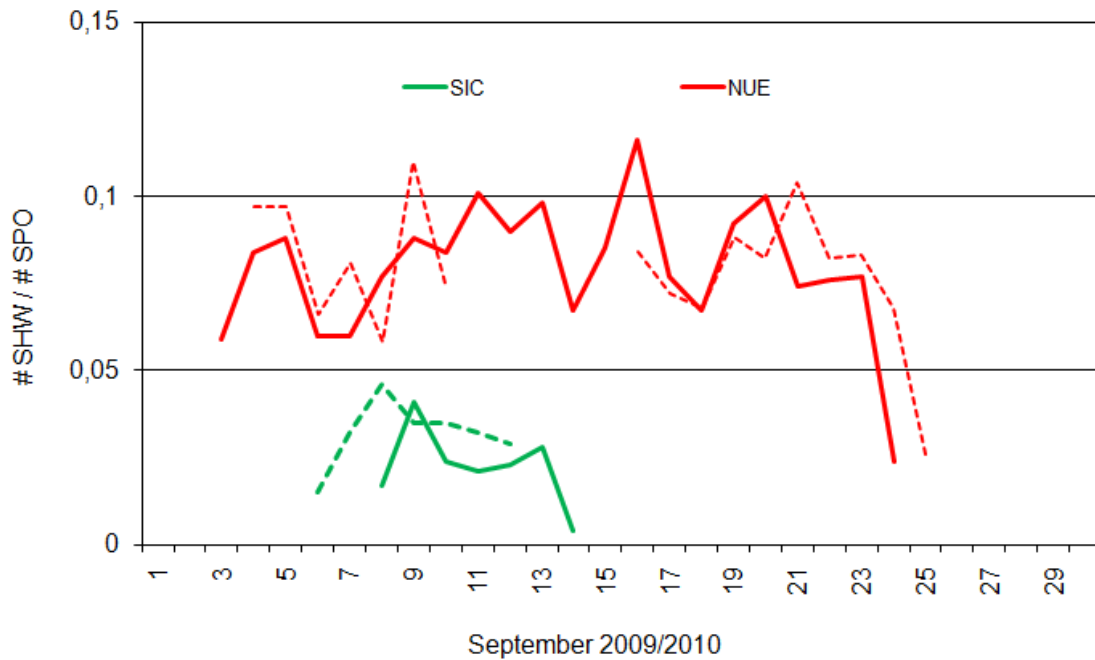


Figure 2: Comparison of the activity profiles of the nu Eridanids and the September iota Cassiopeiids in September 2009 (dashed line) and 2010 (solid line).

Finally we want to check, at what time the activity interval of the Orionids starts. The long-term analysis of 2009 showed first signs of this shower as early as September 26. However, the real start date was set to October 3, since only then the radiant position was reliable enough. In the recent analysis of the Perseus Auriga complex, which incorporated additional data from fall 2009, the shower could even be traced to mid-September.

Now we extended the activity interval artificially to September 1 and tested, how many meteors would fit to the extrapolated radiant position. A fairly constant rate of 5% of the sporadic meteors matched to that radiant in all of September (figure 3). Only starting from September 25, there was a marginal increase in meteors, which could reflect the onset of the Orionids in 2010. On September 30, the increase became prominent.

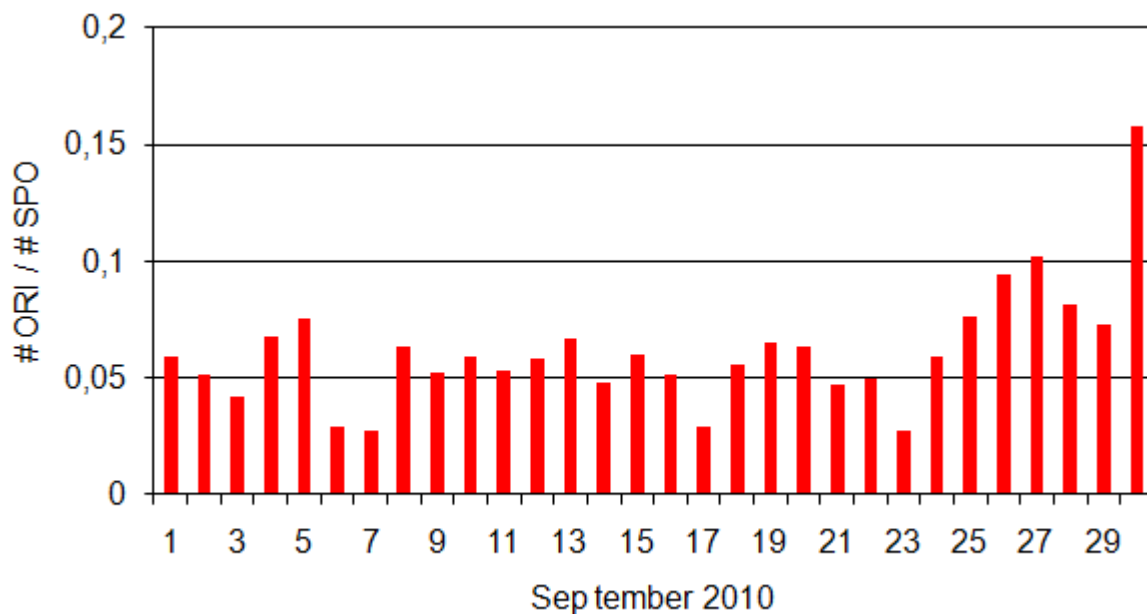


Figure 3: Percentage of sporadic meteors that match to the extrapolated Orionid radiant. Starting from September 25, there is a small increase in rates that hints on the real shower.