Results of the IMO Video Meteor Network – January 2011

Sirko Molau, Abenstalstr. 13b, 84072 Seysdorf *2011/03/17*

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	5	9.6	7.1	32
BERER	Berko	Ludanyhalaszi	HULUD1 (0.95/3)	6500	3.8	2209	10	36.5		104
			HULUD2 (0.95/2.8)	5977	4.2	2978	12	41.7		94
BRIBE	Brinkmann	Herne	HERMINE (0.8/6)	2374	4.2	1084	14	66.2		205
		Bergisch Gladbach	KLEMOI (0.8/6)	2386	5.4	2781	9	62.1	199.3	189
CASFL	Castellani	Monte Baldo	BMH1 (0.8/6)	2350	-	-	28	163.2		615
			BMH2 (1.5/4.5)*	4243	-	-	26	160.7		558
CRIST	Crivello	Valbrevenna	C3P8 (0.8/3.8)	5575	4.2	2525	16	97.2	230.9	416
			STG38 (0.8/3.8)	5593	4.3	2810	22	122.7	379.2	650
CSISZ	Csizmadia	Zalaegerszeg	HUVCSE01 (0.95/5)	2439	-	-	16	49.6	26.5	183
CURMA	Currie	Grove	MIC4 (0.8/6)	1471	5.2	3008	10	55.7	44.0	159
ELTMA	Eltri	Venezia	MET38 (0.8/3.8)	5620	-	-	11	57.6		292
GONRU	Goncalves	Tomar	TEMPLAR1 (0.8/6)*	2188	5.3	2331	15	78.0	134.8	273
			TEMPLAR2 (0.8/6)*	2303	5.0	2397	17	65.5	181.8	192
GOVMI	Govedic	Sredisce ob Dravi	ORION2 (0.8/8)	1471	6.0	3916	19	72.9		300
HERCA	Hergenrother	Tucson	SALSA3 (1.2/4)*	4332	4.0	1471	30	154.3	171.0	479
HINWO	Hinz	Brannenburg	AKM2 (0.85/25)*	754	5.7	1306	5	44.0	44.6	245
IGAAN	Igaz	Baja	HUBAJ (0.8/3.8)	5600	4.3	3338	15	78.6	61.8	285
		Hodmezovasarhely	HUHOD (0.8/3.8)	5609	4.2	3031	12	42.9	43.4	131
		Budapest	HUPOL (1.2/4)	3929	3.5	1144	11	48.2	64.7	137
JOBKL	Jobse	Oostkapelle	KLARA2 (1.2/85)*	1564	-	-	4	45.4		378
KACJA	Kac	Kostanjevec	METKA (0.8/8)*	1381	4.0	2246	7	37.2	29.5	132
		Ljubljana	ORION1 (0.8/8)	1420	5.3	2336	19	31.0		110
		Kamnik	REZIKA (0.8/6)	2307	5.0	2293	8	57.9	56.9	343
			STEFKA (0.8/3.8)	5540	4.2	2882	9	53.3		175
KERST	Kerr	Glenlee	GOCAM1 (0.8/3.8)	5238	4.2	2637	19	112.7		700
LUNRO	Lunsford	Chula Vista	BOCAM (1.4/50)*	1860	5.1	1719	6	53.6	73.5	239
MOLSI	Molau	Seysdorf	AVIS2 (1.4/50)*	1771	6.1	4182	6	38.5	102.0	357
			MINCAM1 (0.8/8)	1477	4.9	1716	16	74.9	79.1	311
		Ketzür	REMO1 (0.8/3.8)	5592	3.0	974	13	51.3	60.0	96
			REMO2 (0.8/3.8)				2	6.0	11.6	8
MORJO	Morvai	Fülöpszallas	HUFUL (1.4/5)	2522	3.5	532	16	62.5	39.5	167
OTTMI	Otte	Pearl City	ORIE1 (1.4/5.7)	3837	-	-	14	66.2	111.3	247
PERZS	Perko	Becsehely	HUBEC (0.8/3.8)*	5448	3.4	1500	17	81.7	180.7	356
ROTEC	Rothenberg	Berlin	ARMEFA (0.8/6)	2369	4.8	1801	9	31.8	64.5	97
SCHHA	Schremmer	Niederkrüchten	DORAEMON (0.8/3.8)	5537	3.0	846	15	30.2	83.2	98
SLAST	Slavec	Ljubljana	KAYAK1 (1.8/28)	604	6.5	1849	6	7.8		29
STOEN	Stomeo	Scorze	MIN38 (0.8/3.8)	5631	4.1	2407	16	92.1		647
			NOA38 (0.8/3.8)	5609	4.9	5800	15	73.9		495
			SCO38 (0.8/3.8)	5598	-	-	16	106.0		751
STORO	Stork	Ondrejov	OND1 (1.4/50)*	2195	5.8	4595	1	10.3	30.8	436
STRJO	Strunk	Herford	MINCAM2 (0.8/6)	2357	-	-	8	21.2		89
			MINCAM3 (0.8/12)	728	-	-	10	21.6		75
			MINCAM5 (0.8/6)	2344	-	-	9	41.9		220
TEPIS	Tepliczky	Budapest	HUMOB (0.8/6)	2375	4.9	2258	7	53.0	93.2	180
TRIMI	Triglav	Velenje	SRAKA (0.8/6)*	2222	-	-	18	62.1		324
YRJIL	Yrjölä	Kuusankoski	FINEXCAM (0.8/6)	2337	5.5	3574	7	26.1	99.7	63
Sum							31	2857.4		12662

* active field of view smaller than video frame

2. Observing Times (h)

January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	-	-	-	-	-	-	-	-	-	-	-	2.8	2.3	1.5	2.7
BERER	2.9	-	-	-	-	-	-	-	-	-	-	0.5	-	0.8	4.6
	1.3	0.5	-	-	-	-	-	-	-	-	-	0.7	-	2.0	9.7
BRIBE	0.3	0.1	-	8.9	1.0	-	3.2	-	8.5	9.5	-	-	-	-	5.1
	-	-	-	-	-	-	-	-	8.0	-	-	-	-	-	5.0
CASFL	11.6	5.7	11.6	7.0	1.0	-	0.3	-	0.3	-	10.6	0.7	7.5	5.3	10.8
	11.3	1.4	13.0	5.4	0.4	-	-	-	-	-	8.4	8.8	7.9	4.2	7.9
CRIST	-	7.1	6.3	-	-	-	-	-	-	-	8.1	5.9	-	-	9.1
	0.5	3.7	10.6	-	-	-	-	1.2	-	0.5	8.0	11.0	6.5	1.7	11.0
CSISZ	-	-	8.9	-	0.3	0.2	1.7	6.9	3	-	-	-	-	1.9	3.7
CURMA	-	-	1.5	-	-	-	-	12.4	4.8	-	-	-	-	3.2	1.3

ELTMA	-	6.2	10.7	5.3	-	-	-	-	-	-	-	0.8	-	-	1.3
GONRU	2.1	-	-	-	-	-	-	1.0	4.5	-	-	9.2	-	-	-
	1.7	-	-	-	2.6	-	-	0.7	4.4	-	-	4.6	1.4	-	-
GOVMI	-	0.3	12.1	-	6.3	0.3	1.6	9.0	0.4	-	-	2.8	1.4	1.4	3.3
HERCA	5.4	5.0	4.7	6.7	3.2	0.8	4.2	8.0	4.4	5.9	6.2	2.7	7.7	7.5	5.0
HINWO	-	-	13.0	2.9	11.0	-	-	-	-	-	-	-	-	-	-
IGAAN	-	5.2	-	-	4.6	-	3.4	8.3	6.7	-	-	3.5	-	7.8	6.7
	-	-	-	1.1	2.5	-	-	3.9	6.2	-	-	1.8	-	3.5	5.8
	0.8	7.1	-	-	-	-	-	2.3	-	-	-	-	-	1.4	8.6
JOBKL	-	-	-	-	-	-	-	-	12.8	-	-	-	-	-	-
KACJA	-	-	-	-	5.9	-	-	7.2	-	-	-	-	-	-	2.1
	0.7	-	-	-	4.6	-	-	1.1	0.6	-	0.3	-	0.7	1.1	1.8
	7.1	-	10.0	-	-	-	-	-	-	-	-	-	-	-	-
	3.0	-	7.1	-	-	-	-	-	-	-	-	-	-	-	-
KERST	5.6	4.0	3.7	7.3	-	-	7.2	-	3.1	7.8	6.8	-	6.6	1.5	-
LUNRO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOLSI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	9.3	-	7.8	-	-	3.3	0.6	-	0.3	-	-	0.5	3.1
	-	1.1	-	6.5	0.5	-	-	2.6	1.3	13.7	-	-	-	-	-
	-	-	-	-	4.9	-	-	1.1	-	-	-	-	-	-	-
MORJO	-	3.0	-	-	4.0	-	-	6.9	5.7	-	-	-	-	4.4	4.7
OTTMI	4.3	9.3	-	8.1	4.5	-	-	5.7	7.3	2.3	-	-	0.5	1.4	-
PERCZ	-	2.1	10.5	-	3.8	0.9	3.0	8.2	2.6	-	-	1.7	-	5.6	7.3
ROTEC	-	-	3.4	11.2	2.8	-	-	-	-	4.2	-	-	-	-	-
SCHHA	1.5	1.2	-	0.5	-	-	1.0	-	-	5.6	-	-	-	-	3.0
SLAST	2.1	-	0.3	-	1.8	-	-	-	-	-	-	-	-	-	1.7
STOEN	-	8.7	12.0	3.3	-	-	-	-	-	-	-	1.1	-	-	4.5
	-	9.6	13.1	4.9	-	-	-	-	-	-	-	1.1	-	-	1.9
	0.6	10.5	13.4	5.5	-	-	-	-	-	-	-	-	-	-	3.3
STORO	-	-	10.3	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	0.3	-	-	4.9	0.3	-	-	-	1.7	4.4	-	-	-	-	-
	0.3	-	-	6.5	0.3	-	-	-	1.6	1.1	-	-	-	-	-
	0.3	-	-	6.0	0.7	-	-	-	1.0	7.8	-	-	-	-	-
TEPIS	-	3.9	-	-	-	-	-	-	-	-	-	-	-	-	10.1
TRIMI	1.2	5.3	9.5	-	6.6	0.8	-	5.0	1.7	-	-	-	1.3	1.3	1.6
YRJIL	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	6.8
Sum	64.9	101.0	195.0	102.0	81.4	3.0	25.6	94.8	91.2	62.8	48.7	59.7	43.8	58.9	153.5

January	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BENOR	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BERER	-	-	-	-	-	6.7	7.1	1.7	7.5	-	-	-	4.0	0.7	-	-
	1.4	-	-	-	-	3.6	7.6	3.5	5.7	-	-	-	3.5	2.2	-	-
BRIBE	8.7	-	-	-	-	-	-	-	-	-	0.8	6.1	6.9	0.7	6.4	-
	14.3	-	-	-	-	-	-	-	-	1.6	2.5	6.3	8.7	7.6	8.1	-
CASFL	9.9	8.9	8.1	1.6	5.0	4.5	9.2	11.3	9.5	3.0	3.5	2.2	0.3	2.0	3.1	8.7
	11.0	11.6	6.5	0.7	3.5	4.0	9.4	9.5	6.7	7.7	1.7	1.2	0.4	1.5	3.4	13.2
CRIST	6.2	-	-	6.5	3.0	7.8	7.4	7.4	6.6	2.6	-	3.4	-	-	3.3	6.5
	10.4	0.9	0.7	3.3	1.2	3.5	8.4	12.7	9.2	2.7	-	6.7	-	-	-	8.3
CSISZ	6.7	-	4	-	0.6	-	6.1	0.3	0.3	0.6	-	-	-	4.4	-	-
CURMA	-	-	12.5	13.5	2	1.8	-	-	-	-	-	-	-	-	2.7	-
ELTMA	-	-	-	-	-	-	6.3	9.6	6.1	2.1	-	-	1.1	-	-	8.1
GONRU	-	-	-	1.9	2.6	8.1	4.3	1.4	3.1	7.2	6.6	-	-	6.3	10.6	9.1
	-	-	-	5.1	3.5	3.5	2.5	0.5	1.9	2.3	4.4	-	-	9.2	7.3	9.9
GOVMI	8.4	2.4	-	-	0.9	1.0	8.3	2.2	6.8	4.0	-	-	-	-	-	-
HERCA	6.9	3.9	6.9	3.0	6.0	4.2	4.0	6.3	4.8	5.5	5.0	6.0	5.5	5.1	3.8	-
HINWO	12.2	4.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IGAAN	4.5	2.0	-	-	-	-	4.9	-	8.2	-	-	0.3	4.6	7.9	-	-
	5.2	-	-	-	-	-	2.8	-	4.3	-	-	5.5	0.3	-	-	-
	-	-	0.2	-	-	-	7.6	4.1	6.1	-	-	-	6.5	3.5	-	-
JOBKL	-	-	-	-	-	-	-	-	-	-	-	9.4	11.2	12.0	-	-
KACJA	8.0	3.0	4.6	-	-	-	6.4	-	-	-	-	-	-	-	-	-
	1.5	0.7	3.4	-	0.3	2.2	7.0	1.8	0.9	0.8	0.5	-	1.0	-	-	-
	-	10.2	8.8	-	-	-	9.3	4.3	-	-	0.3	-	7.9	-	-	-
	7.5	7.6	9.6	-	0.3	-	8.6	6.0	-	-	-	-	3.6	-	-	-
KERST	-	4.3	-	-	-	-	6.1	8.8	8.6	6.7	8.3	7.3	8.2	0.8	-	-
LUNRO	-	-	-	-	-	-	9.7	-	-	7.0	9.9	7.8	8.6	10.6	-	-
MOLSI	6.0	2.3	-	-	-	-	7.3	-	-	-	-	-	10.7	10.8	1.4	-

	9.4	-	2.1	1.0	0.4	2.7	9.1	-	-	-	-	-	11.2	11.5	2.6	-
	10.5	0.3	-	-	-	-	-	-	-	-	0.2	4.9	2.2	7.3	0.2	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORJO	8.0	0.4	-	-	1.2	2.9	6.5	-	6.9	-	-	0.9	6.2	0.4	0.4	-
OTTMI	6.4	-	-	-	-	8.5	-	5.0	-	-	-	-	1.4	1.5	-	-
PERCZ	8.9	3.4	7.0	-	-	2.6	6.6	-	3.4	4.1	-	-	-	-	-	-
ROTEC	2.8	3.7	-	-	-	-	-	-	-	0.3	-	-	-	1.6	1.8	-
SCHHA	2.4	0.4	-	0.3	1.3	-	-	-	-	0.9	0.8	6.2	4.5	0.6	-	-
SLAST	-	1.3	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-
STOEN	-	-	-	-	2.1	4.4	8.7	10.9	9.9	4.0	2.5	2.3	5.5	1.2	-	11.0
	-	-	-	-	1.8	5.2	10.3	0.7	8.0	-	1.7	2.4	0.3	2.2	-	10.7
	-	-	-	-	3.1	7.0	11.7	12.1	7.7	5.1	6.1	0.9	4.1	4.1	-	10.8
STORO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	5.0	-	-	-	-	-	-	-	-	-	-	2.0	2.6	-	-	-
	4.3	-	-	-	-	-	-	-	-	-	-	4.4	1.3	0.7	1.1	-
	8.1	-	-	-	-	-	-	-	-	-	-	9.2	7.8	-	1.0	-
TEPIS	8.4	-	-	-	-	-	8.7	-	6.5	-	-	-	8.6	6.8	-	-
TRIMI	5.1	4.8	5.6	-	-	0.7	5.9	1.1	-	3.8	-	-	0.8	-	-	-
YRJIL	-	-	-	-	-	-	0.8	-	-	-	8.7	-	0.5	-	2.7	5.7
Sum	208.4	77.0	80.6	36.9	38.8	84.9	218.6	121.2	138.7	72.0	63.5	95.4	150.0	123.2	59.9	102.0

3. Results (Meteors)

January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	-	-	-	-	-	-	-	-	-	-	-	9	10	4	8
BERER	15	-	-	-	-	-	-	-	-	-	-	1	-	3	14
	5	1	-	-	-	-	-	-	-	-	-	1	-	4	24
BRIBE	4	1	-	32	1	-	9	-	30	24	-	-	-	-	17
	-	-	-	-	-	-	-	-	37	-	-	-	-	-	14
CASFL	45	12	88	29	5	-	1	-	1	-	41	19	22	16	26
	40	4	84	23	1	-	-	-	-	-	40	17	22	16	27
CRIST	-	49	28	-	-	-	-	-	-	-	53	19	-	-	49
	1	33	74	-	-	-	-	2	-	1	56	53	25	11	69
CSISZ	-	-	81	-	1	1	3	16	9	-	-	-	-	5	11
CURMA	-	-	15	-	-	-	-	54	15	-	-	-	-	4	4
ELTMA	-	25	141	22	-	-	-	-	-	-	-	2	-	-	4
GONRU	3	-	-	-	-	-	-	4	13	-	-	31	-	-	-
	3	-	-	-	11	-	-	2	10	-	-	13	1	-	-
GOVMI	-	1	106	-	35	1	4	29	1	-	-	7	3	5	7
HERCA	17	20	18	38	11	2	14	24	14	15	22	6	27	22	12
HINWO	-	-	127	21	43	-	-	-	-	-	-	-	-	-	-
IGAAN	-	13	-	-	10	-	18	41	34	-	-	9	-	21	32
	-	-	-	3	10	-	-	15	23	-	-	4	-	10	14
	4	15	-	-	-	-	-	7	-	-	-	-	-	5	22
JOBKL	-	-	-	-	-	-	-	-	104	-	-	-	-	-	-
KACJA	-	-	-	-	17	-	-	17	-	-	-	-	-	-	11
	2	-	-	-	10	-	-	5	2	-	1	-	3	5	5
	50	-	95	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	42	-	-	-	-	-	-	-	-	-	-	-	-
KERST	23	31	20	43	-	-	42	-	28	46	34	-	25	17	-
LUNRO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOLSI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	56	-	20	-	-	9	1	-	1	-	-	2	26
	-	4	-	16	2	-	-	3	3	18	-	-	-	-	-
	-	-	-	-	5	-	-	3	-	-	-	-	-	-	-
MORJO	-	8	-	-	11	-	-	24	18	-	-	-	-	7	15
OTTMI	13	34	-	54	16	-	-	19	30	7	-	-	2	4	-
PERCZ	-	11	73	-	19	3	10	28	6	-	-	3	-	18	23
ROTEC	-	-	8	32	6	-	-	-	-	12	-	-	-	-	-
SCHHA	7	4	-	2	-	-	3	-	-	17	-	-	-	-	9
SLAST	6	-	1	-	10	-	-	-	-	-	-	-	-	-	6
STOEN	-	60	288	27	-	-	-	-	-	-	-	1	-	-	11
	-	58	237	26	-	-	-	-	-	-	-	1	-	-	4
	2	79	308	45	-	-	-	-	-	-	-	-	-	-	9
STORO	-	-	436	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	2	-	-	19	1	-	-	-	6	21	-	-	-	-	-

	1	-	-	24	2	-	-	-	7	5	-	-	-	-	-	
	2	-	-	36	3	-	-	-	2	49	-	-	-	-	-	
TEPIS	-	19	-	-	-	-	-	-	-	-	-	-	-	-	36	
TRIMI	4	32	138	-	19	2	-	8	4	-	-	-	8	5	5	
YRJIL	-	-	-	-	-	-	-	-	-	-	-	-	-	1	17	
Sum	255	514	2464	492	269	9	104	310	398	215	248	196	148	185	531	

January	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BENOR	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BERER	-	-	-	-	-	24	15	3	15	-	-	-	12	2	-	-
	2	-	-	-	-	7	16	5	14	-	-	-	10	5	-	-
BRIBE	27	-	-	-	-	-	-	-	-	-	4	23	19	3	11	-
	27	-	-	-	-	-	-	-	-	2	9	25	29	28	18	-
CASFL	42	30	25	3	24	19	30	32	27	9	10	6	1	6	16	30
	38	39	18	1	12	18	29	29	21	23	8	3	1	5	18	21
CRIST	24	-	-	22	9	16	34	33	22	8	-	13	-	-	7	30
	61	5	2	8	3	8	49	54	36	9	-	32	-	-	-	58
CSISZ	19	-	10	-	2	-	12	1	1	2	-	-	-	9	-	-
CURMA	-	-	25	19	9	4	-	-	-	-	-	-	-	-	10	-
ELTMA	-	-	-	-	-	-	20	24	17	6	-	-	5	-	-	26
GONRU	-	-	-	8	12	18	14	3	14	27	20	-	-	17	41	48
	-	-	-	16	11	12	7	2	5	7	8	-	-	28	27	29
GOVMI	29	5	-	-	3	3	29	11	12	9	-	-	-	-	-	-
HERCA	17	11	17	12	14	17	9	20	12	14	18	17	15	14	10	-
HINWO	43	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IGAAN	23	7	-	-	-	-	11	-	25	-	-	1	15	25	-	-
	16	-	-	-	-	-	6	-	17	-	-	12	1	-	-	-
	-	-	1	-	-	-	21	14	16	-	-	-	26	6	-	-
JOBKL	-	-	-	-	-	-	-	-	-	-	-	77	84	113	-	-
KACJA	33	10	17	-	-	-	27	-	-	-	-	-	-	-	-	-
	4	2	9	-	2	10	34	8	4	2	1	-	1	-	-	-
	-	64	38	-	-	-	53	15	-	-	1	-	27	-	-	-
	13	33	24	-	1	-	34	13	-	-	-	-	9	-	-	-
KERST	-	18	-	-	-	-	42	60	65	29	63	51	60	3	-	-
LUNRO	-	-	-	-	-	-	34	-	-	40	37	52	35	41	-	-
MOLSI	60	9	-	-	-	-	56	-	-	-	-	-	118	109	5	-
	42	-	9	4	3	8	51	-	-	-	-	-	44	32	3	-
	9	3	-	-	-	-	-	-	-	-	1	19	4	13	1	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORJO	18	1	-	-	3	8	17	-	20	-	-	2	13	1	1	-
OTTMI	15	-	-	-	-	28	-	17	-	-	-	-	2	6	-	-
PERCZ	47	10	37	-	-	14	24	-	17	13	-	-	-	-	-	-
ROTEC	18	10	-	-	-	-	-	-	-	1	-	-	-	4	6	-
SCHHA	6	3	-	1	3	-	-	-	-	3	3	23	12	2	-	-
SLAST	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-
STOEN	-	-	-	-	6	24	44	40	29	10	10	19	14	9	-	55
	-	-	-	-	5	17	49	3	27	-	7	9	1	8	-	43
	-	-	-	-	8	34	70	52	23	20	20	4	9	16	-	52
STORO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	18	-	-	-	-	-	-	-	-	-	-	11	11	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	15	4	2	4	-
	32	-	-	-	-	-	-	-	-	-	-	43	51	-	2	-
TEPIS	36	-	-	-	-	-	23	-	30	-	-	-	24	12	-	-
TRIMI	20	23	11	-	-	3	17	4	-	15	-	-	6	-	-	-
YRJIL	-	-	-	-	-	-	3	-	-	-	20	-	1	-	8	13
Sum	751	298	245	94	130	292	880	443	469	249	240	457	664	519	188	405

January is not really renowned for pleasant weather, and also this year did not really start delightful for meteor observers. As often, the weather conditions in southern Europe were better than in the North, but only four cameras of three observers yielded more than 20 observing nights. Still we recorded more than 12,500 meteors in over 2,800 hours of effective observing time in total – a plus of 1/3 in meteor counts compared to the previously best January result of 2009.

The Quadrantids on January 3/4 were once more the highlight of the month. This time, the observing conditions were nearly perfect (new moon, peak time in the European night time hours) so that poor weather was almost mandatory. Indeed, there were just three Italian observers (Enrico Stomeo, Maurizio Eltri, Flavio Castellani) as well as Mihaela Triglav in Slovenia who

enjoyed prevailing clear skies. We could use the data sets of their seven cameras with 810 Quadrantids between 21:30 and 05:00 UT for our analysis. The shower meteor counts were derived in half hour intervals, and corrected for the radiant altitude. It is well-known that the Quadrantid radiant is low in the horizon before local midnight, which is why the corresponding rates have to be taken with care. It seems, however, that the activity was still rising by that time. It reached a plateau of high activity between 0:30 and 4:00 UT, and thereafter the rates declined again (Figure 1).
For comparison, we marked the visual activity profile from the IMO quick look analysis (based on 1768 Quadrantids) with crosses. In principle, the overall profile is confirmed – only the visual peak at 22:30 is not present in the video data. However, more details cannot be derived from the small data set.

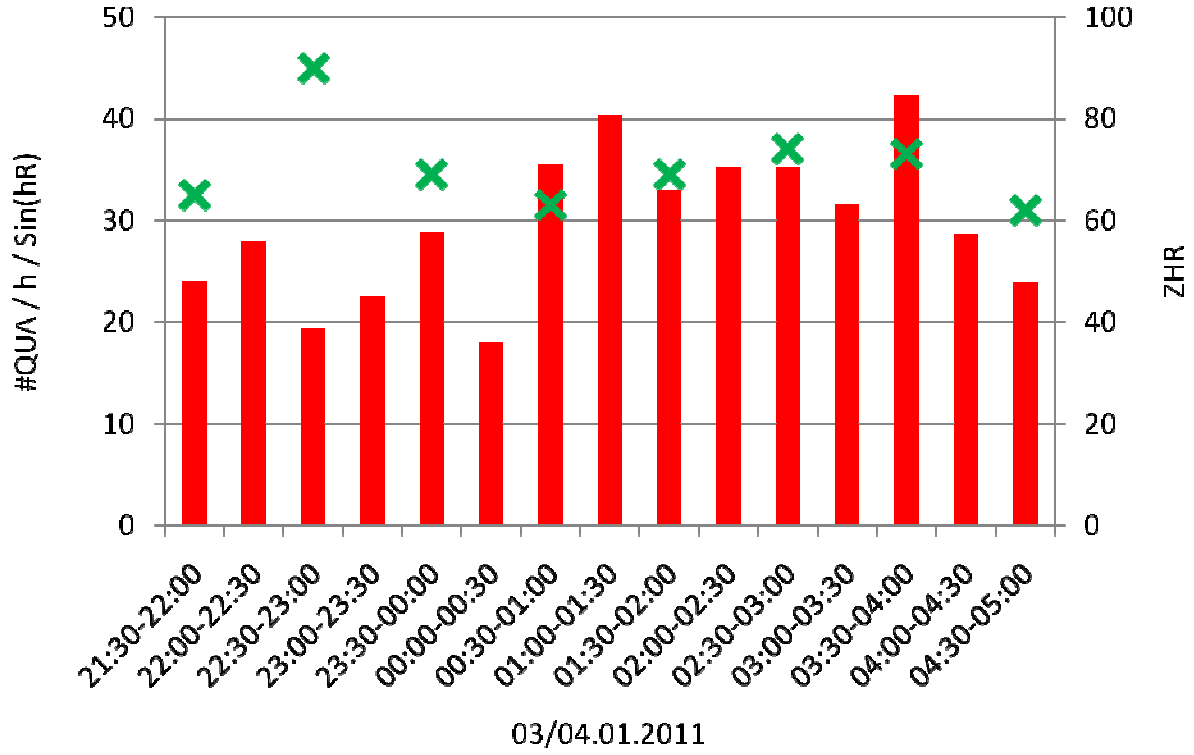

Figure 1: *Activity profile of the Quadrantids on January 3/4, 2011. Visual ZHR values from the IMO quick look analysis are marked with crosses.*

Our extended meteor shower analysis of 2009 had revealed five other minor sources mainly in the first haf of January. In the course of this analysis, we recomputed the meteor shower assignment of all January meteors to check, whether these showers were noticable active in 2011 as well. We divided the number of shower meteors by the number of sporadics in the same night. The result is given in figure 2 and 3. The absolute number of sporadic meteors is plotted in the background as an indicator for the size of the data set.
With 10% of the sporadic meteors, the December Leonis Minorids (32 DLM, in former years identified as Comae Berenicids) reached about the same activity as the Antihelion source. Only towards the end of the month, their rate slowly declined.

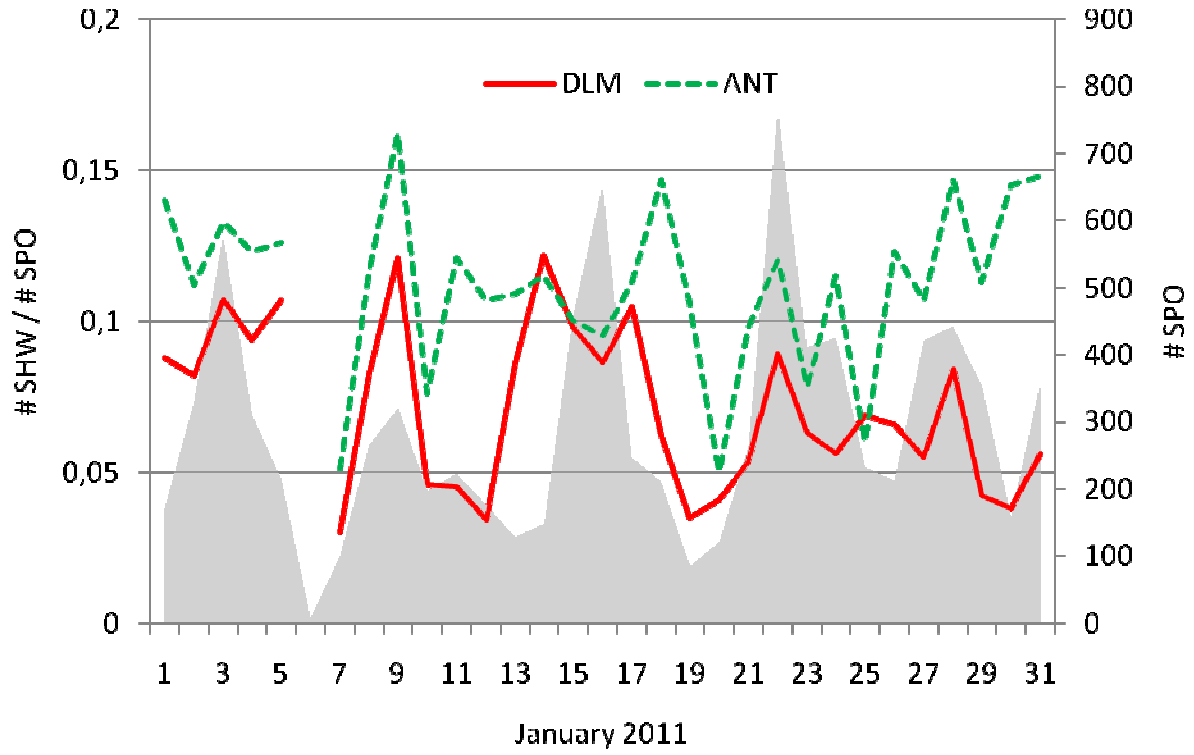

Figure 2: *Activity of the December Leonis Minorids and the Antihelion source in January 2011. Given is the number of shower meteors divided by the number of sporadics.*

The other meteor showers were hardly noticeable in their respective activity intervals. At least there is agreement with the 2009 analysis in that the January Leonids (319 JLE) and alpha-Hydrids (331 AHY) reached their peak activity right at the begin of January, and the chi-Coronae Borealids (323 XCB) at the end of their activity interval. All three shower could be detected reasonably well at their peak with 5% of the sporadic activity. Only the southern delta-Cancrids (97 SCC) did not stand out from the background at all.

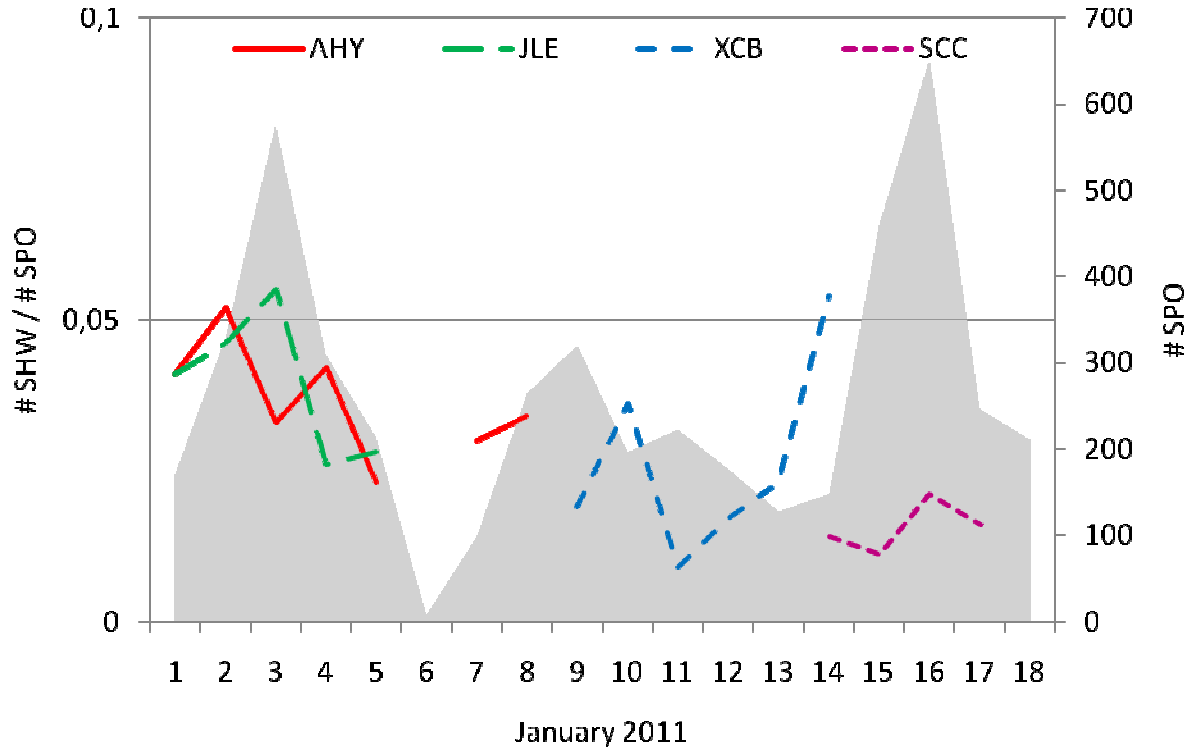

Abbildung 3: *Activity of the alpha-Hydrids, January Leonids, chi-Coronae Borealids and*

southern delta-Cancrids in January 2011. Given is the number of shower meteors divided by the number of sporadics.