

Results of the IMO Video Meteor Network – May 2010

Sirko Molau, Abenstalstr. 13b, 84072 Seysdorf

2010/07/16

1. Observers

Code	Name	Place	Camera	FOV	LM	Nights	Time	Meteors
BENOR	Benitez-S.	Las Palmas	TIMES4 (1.4/50)	Ø 20°	3 mag	12	14.5	42
			TIMES5 (0.95/50)	Ø 10°	3 mag	7	7.4	19
BRIBE	Brinkmann	Herne	HERMINE (0.8/6)	Ø 55°	3 mag	18	48.7	120
CASFL	Castellani	Monte Baldo	BMH1 (0.8/6)	Ø 55°	3 mag	19	39.6	90
			BMH2 (0.8/6)	Ø 55°	3 mag	18	42.7	121
CRIST	Crivello	Valbrevenna	C3P8 (0.8/3.8)	Ø 80°	3 mag	17	44.5	123
			STG38 (0.8/3.8)	Ø 80°	3 mag	19	56.9	121
ELTMA	Eltri	Venezia	MET38 (0.8/3.8)	Ø 80°	3 mag	10	35.7	85
GONRU	Goncalves	Tomar	TEMPLAR1 (0.8/6)	Ø 55°	3 mag	23	122.5	417
			TEMPLAR2 (0.8/6)	Ø 55°	3 mag	23	87.6	236
GOVMI	Govedic	Sredisce ob Dravi	ORION2 (0.8/8)	Ø 42°	4 mag	16	45.6	104
HERCA	Hergenrother	Tucson	SALSA2 (1.2/4)	Ø 80°	3 mag	31	119.1	302
HINWO	Hinz	Brannenburg	AKM2 (0.85/25)	Ø 32°	6 mag	4	10.9	24
IGAAN	Igaz	Budapest	HUPOL (0.8/3.8)	Ø 80°	3 mag	18	27.1	62
JOBKL	Jobse	Oostkapelle	BETSY2 (1.2/85)	Ø 25°	7 mag	11	55.9	327
KACJA	Kac	Kostanjevec	METKA (0.8/8)	Ø 42°	4 mag	5	12.4	31
		Ljubljana	ORION1 (0.8/8)	Ø 42°	4 mag	12	19.3	43
		Kamnik	REZIKA (0.8/6)	Ø 55°	3 mag	9	32.0	108
			STEFKA (0.8/3.8)	Ø 80°	3 mag	8	21.6	58
KERST	Kerr	Glenlee	GOCAM1 (0.8/3.8)	Ø 80°	3 mag	16	145.6	1575
KOSDE	Koschny	Noordwijkerhout	LIC4 (1.4/50)	Ø 60°	6 mag	14	62.7	269
LUNRO	Lunsford	Chula Vista	BOCAM (1.4/50)	Ø 60°	6 mag	15	49.1	193
MOLSI	Molau	Seysdorf	AVIS2 (1.4/50)	Ø 60°	6 mag	5	12.7	80
			MINCAM1 (0.8/8)	Ø 42°	4 mag	12	29.9	70
		Ketzür	REMO1 (0.8/3.8)	Ø 80°	3 mag	13	17.5	43
			REMO2 (0.8/3.8)	Ø 80°	3 mag	4	12.5	27
OCHPA	Ochner	Albiano	ALBIANO (1.2/4.5)	Ø 68°	3 mag	15	52.5	109
OTTMI	Otte	Pearl City	ORIE1 (1.4/16)	Ø 20°	4 mag	15	42.6	109
ROTEC	Rothenberg	Berlin	ARMEFA (0.8/6)	Ø 55°	3 mag	12	23.3	66
SCHHA	Schremmer	Niederkrüchten	DORAEMON (0.8/3.8)	Ø 80°	3 mag	15	22.0	53
SLAST	Slavec	Ljubljana	KAYAK1 (1.8/28)	Ø 50°	4 mag	8	17.1	26
STOEN	Stomeo	Scorze	MIN38 (0.8/3.8)	Ø 80°	3 mag	15	77.8	261
			NOA38 (0.8/3.8)	Ø 80°	3 mag	15	72.2	225
			SCO38 (0.8/3.8)	Ø 80°	3 mag	16	72.6	247
STORO	Stork	Ondrejov	OND1 (1.4/50)	Ø 55°	6 mag	1	2.2	22
STRJO	Strunk	Herford	MINCAM2 (0.8/6)	Ø 55°	3 mag	11	19.6	50
			MINCAM5 (0.8/6)	Ø 55°	3 mag	11	28.0	85
YRJIL	Yrjölä	Kuusankoski	FINEXCAM (0.8/6)	Ø 55°	3 mag	8	16.0	40
Sum						31	1619.9	5983

2. Observing Times (h)

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	-	2.1	-	1.1	0.6	2.4	-	-	-	-	-	-	-	-	-
	-	1.3	-	0.3	2.3	-	-	-	-	-	-	-	-	-	-
BRIBE	0.3	1.0	-	4.8	1.3	-	-	1.6	-	1.9	-	-	-	-	2.9
CASFL	1.1	-	-	-	1.6	0.5	-	4.3	-	-	-	0.3	-	0.3	1.2
	-	-	-	-	1.3	0.7	-	2.7	-	-	-	-	-	0.9	0.7
CRIST	-	-	-	-	1.0	0.5	-	-	-	-	-	-	-	0.5	-
	-	0.5	-	-	2.7	-	-	-	-	0.5	-	3.0	-	-	-
ELTMA	-	-	-	-	-	-	-	4.2	-	-	-	-	-	-	-
GONRU	-	7.7	6.2	5.2	5.1	6.3	-	-	6.7	5.3	-	-	6.6	-	7.6
	-	5.2	6.2	4.6	5.4	2.8	-	-	3.6	5.3	4.2	3.6	1.9	-	3.4
GOVMI	-	-	0.7	-	-	4.7	4.5	-	-	6.2	2.2	0.9	2.0	1.5	-
HERCA	5.7	2.7	7.5	2.2	4.2	4.7	3.5	4.1	4.8	5.8	7.2	6.6	5.5	4.4	1.7
HINWO	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-
IGAAN	1.7	-	-	-	-	1.0	2.2	-	1.6	1.1	0.5	0.3	-	0.8	-
JOBKL	-	-	-	4.3	5.8	-	-	-	5.8	5.8	-	-	5.3	5.4	-

KACJA	-	-	-	-	-	-	0.9	-	-	4.4	-	-	-	-	-
	0.6	-	-	-	-	-	2.6	1.2	0.2	0.4	-	-	-	-	-
	-	-	-	-	-	-	5.0	-	-	-	-	-	1.0	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-
KERST	-	-	8.9	10.6	10.8	10.4	8.4	3.5	10.0	8.6	9.6	9.2	10.3	8.9	-
KOSDE	-	-	-	3.6	6.8	2.8	-	-	-	5.7	-	-	3.1	5.7	-
LUNRO	5.0	0.8	5.8	5.3	2.2	1.3	7.1	3.9	0.3	-	-	6.3	3.0	-	-
MOLSI	-	-	-	-	-	-	-	3.0	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	5.0	-	4.3	1.1	-	-	0.3	-
	1.6	-	-	1.8	0.6	-	-	-	-	0.3	-	0.3	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCHPA	-	-	-	-	-	-	-	2.1	-	-	-	-	-	-	-
OTTMI	-	-	-	0.5	-	3.6	-	-	3.4	1.7	-	-	-	-	2.8
ROTEC	1.4	-	-	2.8	0.7	-	0.3	0.3	-	3.2	-	2.7	-	-	-
SCHHA	0.3	-	-	2.2	0.8	-	-	2.2	-	0.7	-	-	-	-	-
SLAST	-	-	-	-	-	-	2.9	0.6	-	-	-	-	-	-	-
STOEN	-	-	1.1	-	-	7.4	-	4.7	-	-	-	-	6.0	-	-
	-	-	1.1	-	-	7.4	-	6.3	2.1	-	-	-	7.0	-	-
	-	-	1.1	-	-	7.4	-	7.3	0.8	-	-	-	7.2	-	-
STORO	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-
STRJO	-	-	-	3.2	1.8	-	-	-	-	-	-	-	-	-	-
	-	-	-	2.9	1.7	-	-	-	-	-	-	-	-	-	-
YRJIL	2.4	3.2	-	-	2.2	1.9	-	-	-	-	1.9	1.9	2.1	0.4	-
Sum	20.1	24.5	38.6	55.4	58.9	68.0	37.4	58.7	39.3	61.2	26.7	35.1	61.4	29.1	20.3

May	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BENOR	-	1.6	0.3	1.3	0.8	-	1.7	0.7	1.3	-	-	0.6	-	-	-	-
	-	0.7	-	2.3	-	-	-	0.3	-	-	-	0.2	-	-	-	-
BRIBE	4.8	2.7	2.6	-	4.7	4.0	4.7	3.5	-	1.5	-	-	4.2	-	1.2	1.0
CASFL	3.4	6.2	0.3	1.0	3.9	1.7	-	-	3.5	1.4	2.1	4.2	1.2	-	-	1.4
	4.8	2.6	-	-	3.3	2.2	1.8	3.0	3.5	2.3	2.8	2.7	1.7	0.3	-	5.4
CRIST	2.2	5.0	-	2.0	4.9	5.0	-	3.6	1.2	5.0	0.5	3.0	0.5	1.0	3.0	5.6
	6.0	4.3	-	4.6	4.9	4.0	3.1	3.0	6.7	1.5	1.9	1.5	0.5	1.0	1.5	5.7
ELTMA	-	-	-	-	3.4	3.8	3.3	3.2	5.1	3.0	4.4	2.1	-	-	-	3.2
GONRU	5.3	6.6	5.6	6.1	6.8	6.4	7.4	-	0.5	2.7	-	3.5	4.9	3.3	2.2	4.5
	6.7	4.3	4.8	4.3	3.3	2.8	4.2	-	-	1.7	-	3.4	1.9	1.6	-	2.4
GOVMI	-	-	4.3	-	-	-	1.3	6.0	5.3	4.3	0.7	0.6	0.4	-	-	-
HERCA	4.3	2.5	3.5	2.3	3.0	4.6	3.1	2.4	3.3	4.8	2.6	2.5	1.4	2.9	2.6	2.7
HINWO	-	-	-	-	-	-	-	1.9	5.5	-	-	1.8	-	-	-	-
IGAAN	-	1.3	-	-	-	0.9	0.9	5.0	0.8	0.5	4.0	-	0.7	2.2	1.6	-
JOBKL	-	-	5.0	5.3	5.2	-	3.4	4.6	-	-	-	-	-	-	-	-
KACJA	-	-	2.8	-	-	-	-	-	-	1.9	2.4	-	-	-	-	-
	-	-	2.6	-	-	-	0.4	-	3.1	1.1	4.6	1.9	0.6	-	-	-
	-	-	6.9	-	-	-	2.6	0.6	-	5.3	4.1	4.7	-	-	-	1.8
	-	-	5.5	-	-	-	1.5	0.7	-	2.7	3.0	5.9	-	-	-	1.9
KERST	-	-	10.6	-	-	-	8.7	-	-	-	-	-	-	-	8.2	8.9
KOSDE	-	3.2	4.8	5.5	5.5	-	5.5	-	2.7	4.5	-	-	3.3	-	-	-
LUNRO	-	-	-	-	-	-	-	-	2.4	-	1.0	1.5	-	3.2	-	-
MOLSI	-	1.1	4.5	-	-	-	-	-	3.8	-	-	0.3	-	-	-	-
	-	0.4	2.4	-	-	1.8	3.8	3.4	4.9	0.5	-	2.0	-	-	-	-
	1.8	-	-	-	2.8	0.9	-	0.8	0.6	2.4	-	2.0	1.6	-	-	-
	-	-	-	-	-	-	-	-	4.0	4.3	-	-	3.2	1.0	-	-
OCHPA	4.1	6.6	1.1	3.3	4.3	3.2	4.4	5.4	3.2	2.2	5.3	4.2	-	1.0	-	2.1
OTTMI	-	-	-	3.0	2.8	-	1.6	1.7	5.4	-	0.9	-	5.0	4.8	2.4	3.0
ROTEC	4.3	-	-	-	-	-	-	0.3	2.2	-	-	2.7	2.4	-	-	-
SCHHA	-	2.3	0.3	1.3	1.7	5.0	0.7	1.2	0.3	0.3	-	-	2.7	-	-	-
SLAST	-	-	-	-	-	-	2.1	1.0	3.7	1.8	-	2.0	3.0	-	-	-
STOEN	-	6.8	4.6	4.4	-	-	6.6	6.5	6.5	6.3	6.4	1.1	3.1	-	-	6.3
	-	6.8	2.9	1.1	-	-	5.5	4.5	6.5	4.1	6.4	-	4.2	-	-	6.3
	-	5.7	3.7	1.9	-	-	3.2	5.5	5.5	5.3	6.4	1.1	4.2	-	-	6.3
STORO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	1.0	1.7	0.5	-	1.0	-	2.2	1.6	2.6	1.5	-	-	2.5	-	-	-
	1.0	2.9	-	-	4.1	2.8	2.6	2.4	2.7	2.4	-	-	2.5	-	-	-
YRJIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum	49.7	75.3	79.6	49.7	66.4	49.1	86.3	72.8	96.8	75.3	59.5	55.5	55.7	22.3	22.7	68.5

3. Results (Meteors)

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
BENOR	-	5	-	3	3	9	-	-	-	-	-	-	-	-	-
	-	4	-	1	4	-	-	-	-	-	-	-	-	-	-
BRIBE	1	3	-	13	4	-	-	3	-	8	-	-	-	-	5
CASFL	1	-	-	-	8	2	-	11	-	-	-	1	-	1	2
	-	-	-	-	3	2	-	13	-	-	-	-	-	1	2
CRIST	-	-	-	-	3	1	-	-	-	-	-	-	-	2	-
	-	1	-	-	6	-	-	-	-	3	-	5	-	-	-
ELTMA	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-
GONRU	-	25	29	16	24	21	-	-	25	12	-	-	21	-	22
	-	17	15	18	15	10	-	-	10	12	10	9	6	-	7
GOVMI	-	-	2	-	-	17	14	-	-	12	5	3	5	1	-
HERCA	12	5	14	7	11	15	18	12	12	9	22	15	12	8	3
HINWO	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
IGAAN	3	-	-	-	-	1	3	-	3	3	1	1	-	2	-
JOBKL	-	-	-	24	33	-	-	-	38	23	-	-	50	28	-
KACJA	-	-	-	-	-	-	4	-	-	9	-	-	-	-	-
	3	-	-	-	-	-	4	4	1	1	-	-	-	-	-
	-	-	-	-	-	-	13	-	-	-	-	-	2	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
KERST	-	-	57	105	158	146	111	9	126	93	105	142	119	66	-
KOSDE	-	-	-	17	31	7	-	-	-	24	-	-	9	21	-
LUNRO	17	4	20	24	6	1	38	12	2	-	-	29	5	-	-
MOLSI	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	13	-	5	3	-	-	1	-
	3	-	-	4	2	-	-	-	-	1	-	1	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCHPA	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
OTTMI	-	-	-	3	-	13	-	-	8	7	-	-	-	-	10
ROTEC	4	-	-	6	2	-	2	1	-	11	-	7	-	-	-
SCHHA	1	-	-	8	3	-	-	3	-	2	-	-	-	-	-
SLAST	-	-	-	-	-	-	4	1	-	-	-	-	-	-	-
STOEN	-	-	3	-	-	30	-	18	-	-	-	-	23	-	-
	-	-	1	-	-	30	-	14	2	-	-	-	19	-	-
	-	-	1	-	-	35	-	15	2	-	-	-	32	-	-
STORO	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-
STRJO	-	-	-	8	5	-	-	-	-	-	-	-	-	-	-
	-	-	-	13	3	-	-	-	-	-	-	-	-	-	-
YRJIL	7	8	-	-	6	3	-	-	-	-	9	3	3	1	-
Sum	52	72	142	270	330	365	211	184	229	235	155	216	308	132	51

May	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BENOR	-	4	2	2	3	-	5	2	3	-	-	1	-	-	-	-
	-	2	-	6	-	-	-	1	-	-	-	1	-	-	-	-
BRIBE	8	5	8	-	10	10	14	8	-	6	-	-	9	-	1	4
CASFL	8	12	1	1	8	5	-	-	7	2	5	8	3	-	-	4
	8	7	-	-	10	5	5	13	9	8	10	8	5	1	-	11
CRIST	6	14	-	6	18	17	-	7	4	12	1	7	1	2	4	18
	12	10	-	6	11	5	5	7	13	4	7	5	2	2	3	14
ELTMA	-	-	-	-	6	6	10	13	10	7	12	2	-	-	-	5
GONRU	21	29	16	19	23	24	23	-	1	9	-	10	17	11	6	13
	17	11	17	12	9	10	12	-	-	4	-	5	3	4	-	3
GOVMI	-	-	9	-	-	-	2	10	11	6	3	2	2	-	-	-
HERCA	10	7	11	10	10	14	6	5	9	14	5	6	5	5	5	5
HINWO	-	-	-	-	-	-	-	4	10	-	-	3	-	-	-	-
IGAAN	-	2	-	-	-	3	4	10	2	2	11	-	3	5	3	-
JOBKL	-	-	27	42	23	-	20	19	-	-	-	-	-	-	-	-
KACJA	-	-	9	-	-	-	-	-	-	3	6	-	-	-	-	-
	-	-	4	-	-	-	1	-	9	3	8	3	2	-	-	-
	-	-	32	-	-	-	6	1	-	12	15	22	-	-	-	5
	-	-	18	-	-	-	5	3	-	8	8	11	-	-	-	3
KERST	-	-	102	-	-	-	80	-	-	-	-	-	-	-	75	81
KOSDE	-	9	22	36	40	-	23	-	12	9	-	-	9	-	-	-
LUNRO	-	-	-	-	-	-	-	-	6	-	6	3	-	20	-	-

MOLSI	-	4	28	-	-	-	-	-	17	-	-	1	-	-	-	-
	-	1	7	-	-	3	8	11	13	2	-	3	-	-	-	-
	4	-	-	-	6	2	-	1	2	9	-	4	4	-	-	-
	-	-	-	-	-	-	-	-	12	9	-	-	5	1	-	-
OCHPA	7	15	3	7	9	7	13	13	3	3	9	9	-	2	-	5
OTTMI	-	-	-	6	4	-	4	6	9	-	2	-	10	15	7	5
ROTEC	10	-	-	-	-	-	-	1	7	-	-	9	6	-	-	-
SCHHA	-	6	1	5	3	8	2	6	1	1	-	-	3	-	-	-
SLAST	-	-	-	-	-	-	4	1	5	2	-	3	6	-	-	-
STOEN	-	36	5	6	-	-	17	22	28	20	24	1	6	-	-	22
	-	29	5	2	-	-	22	14	23	14	14	-	6	-	-	30
	-	25	6	2	-	-	12	18	21	15	20	1	13	-	-	29
STORO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STRJO	2	4	1	-	4	-	4	4	6	6	-	-	6	-	-	-
	2	13	-	-	10	6	10	6	5	9	-	-	8	-	-	-
YRJIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum	115	245	334	168	207	125	317	206	258	199	166	128	134	68	104	257

In May, we experienced once more strong differences between individual observing sites. Observers in the region of the Alps suffered strongest from poor weather. Hardly any observer in southern Germany, Slovenia or northern Italy obtained more than 10 observing nights. At other observing sites, the weather was more cooperative, and Carl Hergenrother did not miss even a single night once more. With 1,600 observing hours, the monthly total was smaller than in the years before. Still, the number of almost 6,000 meteors was clearly higher, mainly thanks to our Australian observer Steve Kerr. He did not only enjoy longer nights thanks to the southern hemisphere winter season, but with the eta Aquariids also the strongest southern meteor shower.

Over many days, the ETA were the dominating shower “down under” as can be seen from the following analysis (figure 1). Based on the data from GOCAM1, the number of shower meteors (439 in total) was divided by the number of sporadic (585 in total) and plotted on a daily basis (bars). For comparison, the long-term video rate profile from the 2009 meteor shower analysis was overlaid (line). The time of maximum (47° solar longitude) matched very well to the long-term average (46.8°), but the peak was clearly narrower.

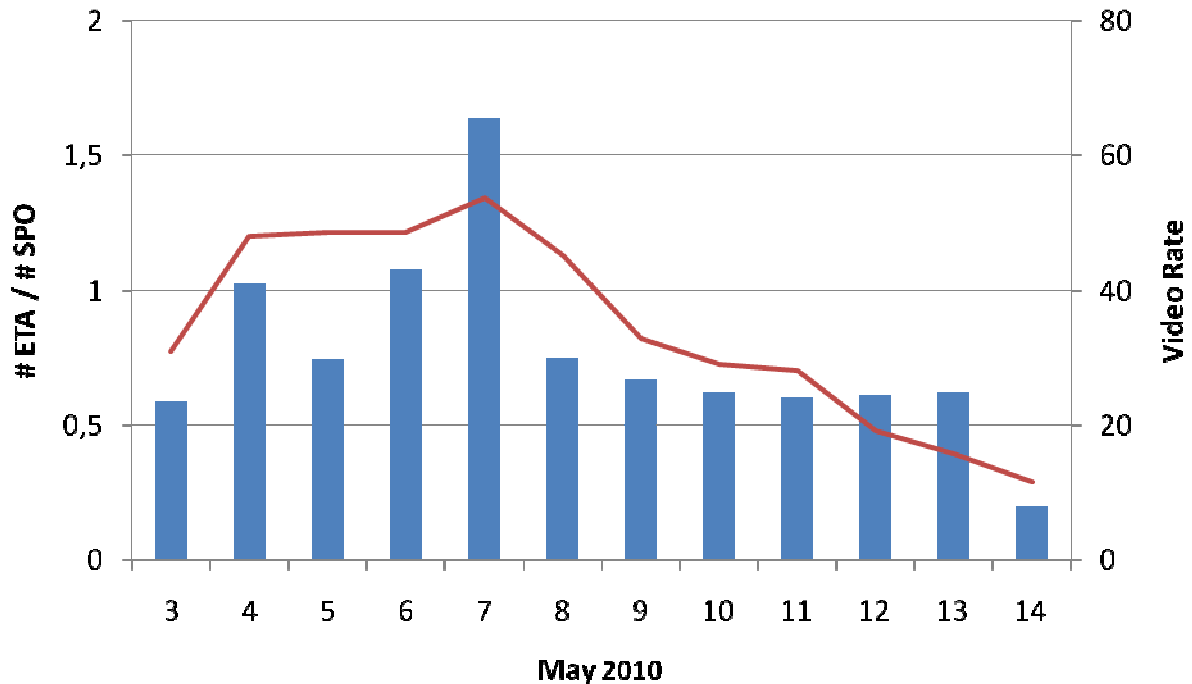


Figure 1: Activity profile of the eta Aquariids, obtained from data of the Australian camera GOCAM1 (bars) in May 2010. The long-term video rate profile from IMO network data till 2009 is plotted for comparison (line).

The eta Lyrids, which have been included in the IMO working list not too long ago, are active in the first half of May as well. They were analyzed with the same method (figure 2), whereby this time the data of all cameras from the IMO network between May 6/7 and 13/14 were used (59 ELY, 1012 SPO). In this case, not only the time of maximum (50° solar longitude) agrees perfectly with the long-term value, but also the shape of the activity profile is very similar. Note that the absolute rate is by an order of magnitude smaller than for the eta Aquariids.

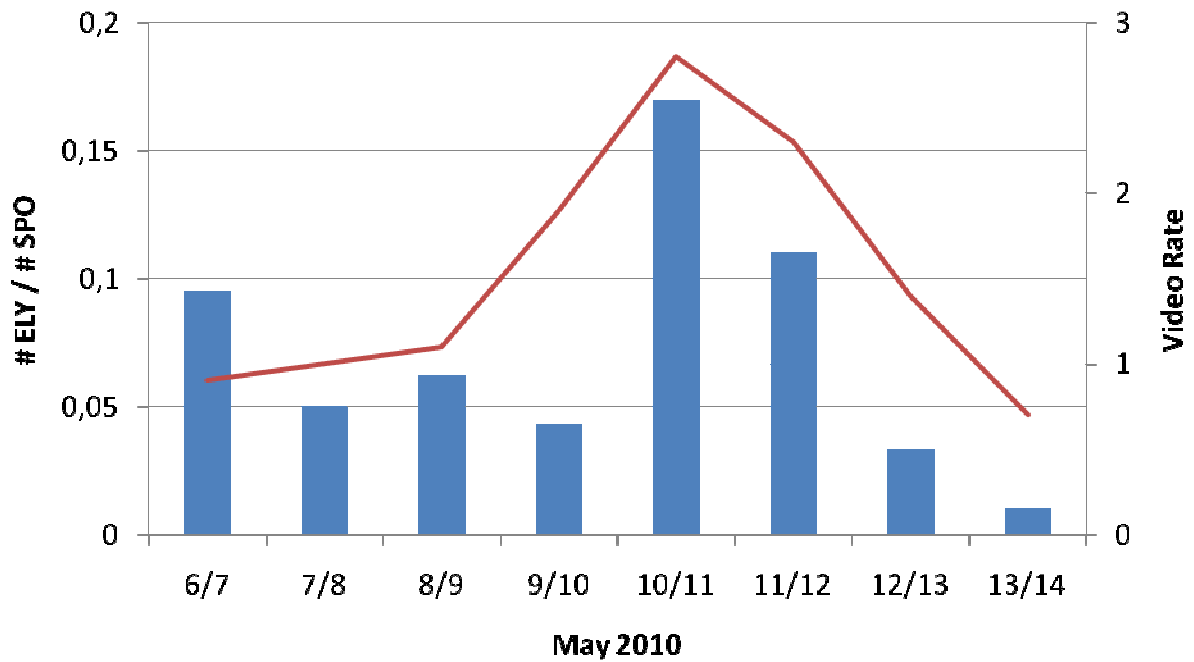


Figure 2: Activity profile of the eta Lyrids, obtained from data of all IMO network cameras in May 2010 (bars). The long-term video rate profile from data till 2009 is plotted for comparison (line).