

# Telescopic Meteors Observations data in December, 2003

12 月  
(Dec.)

観測者

佐藤 達雄

観測地

埼玉県さいたま市

観測機械

(Satou Tatsuo)  
Nikon NS (D27mm 1×40°)

(Saitama-city, Saitama-pref, Japan)

北緯  
東経  
海拔

+35° 51' 36.9"  
-139° 41' 59.1"  
10m

UT

日	開始 JST	終了 JST	分	中央時	Direction	Plot	Seen	Total	HR	Mag	See	CI			備考
2	19 30	20 0	30	2.448	Cyg	3	0	3	6.0	6.3		0			Nikon NS
2	20 55	21 25	30	2.507	And	1	0	1	2.0	6.7		0			Nikon NS
2	21 55	22 25	30	2.549	Tau	2	0	2	4.0	6.8		0			Nikon NS
3	23 30	24 15	45	3.620	Ori	3	0	3	4.0	6.7		0			Nikon NS
4	23 15	24 5	50	4.611	Ori	1	0	1	1.2	6.7		2			Nikon NS
6	18 10	18 50	40	6.396	Cep	1	0	1	1.5	6.1		0			Nikon NS
6	20 5	20 50	45	6.477	Cas	3	0	3	4.0	6.2		0			Nikon NS
6	23 0	23 30	30	6.594	Gem	2	0	2	4.0	6.2		0			Nikon NS
6	26 5	26 35	30	6.722	Cnc	2	0	2	4.0	6.7		0			Nikon NS
7	21 5	21 40	35	7.516	Cas	2	0	2	3.4	6.0		1			Nikon NS
7	23 10	23 40	30	7.601	Ori	0	0	0	0.0	6.0		5			Nikon NS
8	21 45	22 25	40	8.545	Cas	2	0	2	3.0	6.2		0			Nikon NS
8	23 30	24 0	30	8.615	Gem	2	0	2	4.0	6.0		0			Nikon NS
9	20 50	21 20	30	9.503	Per	1	0	1	2.0	6.3		1			Nikon NS
10	21 10	21 55	45	10.523	Ori	0	0	0	0.0	5.0		0			Nikon NS
10	23 30	24 0	30	10.615	Ori	0	0	0	0.0	5.0		5			Nikon NS
12	24 20	24 50	30	12.649	Gem	1	0	1	2.0	6.0		0			Nikon NS
12	26 40	27 10	30	12.747	Gem	4	0	4	8.0	6.0		0			Nikon NS
13	21 25	22 10	45	13.533	Ori	0	12	12	16.0	6.6		0			Nikon NS
13	23 40	24 10	30	13.622	Gem	6	0	6	12.0	6.6		0			Nikon NS
13	24 40	25 30	50	13.670	Gem	10	0	10	12.0	6.6		0			Nikon NS
13	25 35	26 35	60	13.712	Gem	13	0	13	13.0	6.6		0			Nikon NS
13	26 40	27 40	60	13.757	Gem	10	0	10	10.0	6.6		0			Nikon NS
13	27 40	28 40	60	13.799	Gem	17	0	17	17.0	6.6		0			Nikon NS
13	28 40	29 30	50	13.837	Gem	16	0	16	19.2	6.6		0			Nikon NS
14	22 50	23 30	40	14.590	Gem	7	6	13	19.5	6.8		0			Nikon NS
14	24 0	24 30	30	14.635	Gem	9	0	9	18.0	6.8		0			Nikon NS

15	21	15	21	45	30	15.521	Gem	1	0	1	2.0	6.0		0			Nikon NS
15	22	55	23	25	30	15.590	Gem	4	0	4	8.0	6.0		0			Nikon NS
16	22	0	22	40	40	16.556	Ori	2	0	2	3.0	6.8		1			Nikon NS
16	23	20	24	5	45	16.613	Gem	4	0	4	5.3	6.8		0			Nikon NS
17	22	0	22	30	30	17.552	Ori	2	0	2	4.0	6.7		0			Nikon NS
17	23	35	24	15	40	17.622	Gem	3	0	3	4.5	6.7		0			Nikon NS
19	24	0	24	30	30	19.635	Ori	5	0	5	10.0	7.0		0			Nikon NS
19	24	35	25	5	30	19.660	Cnc	2	0	2	4.0	7.0		0			Nikon NS
21	21	30	22	5	35	21.533	Ori	3	0	3	5.1	6.8		0			Nikon NS
21	22	30	23	10	40	21.576	Ori	1	0	1	1.5	6.8		0			Nikon NS
22	25	35	26	10	35	22.703	UMi	5	0	5	8.6	6.0		0			Nikon NS
22	26	20	26	50	30	22.733	LMi	6	0	6	12.0	6.8		0			Nikon NS
23	17	40	18	10	30	23.372	UMi	1	0	1	2.0	5.5		0			Nikon NS
23	22	30	23	0	30	23.573	Ori	1	0	1	2.0	6.2		0			Nikon NS
24	17	55	18	25	30	24.382	UMi	1	0	1	2.0	6.0		0			Nikon NS
24	23	5	23	35	30	24.597	Ori	4	0	4	8.0	6.7		0			Nikon NS
24	25	0	25	40	40	24.681	Cnc	9	0	9	13.5	6.7		0			Nikon NS
24	26	5	26	35	30	24.722	Leo	5	0	5	10.0	6.7		0			Nikon NS
24	26	50	27	20	30	24.753	LMi	4	0	4	8.0	6.7		0			Nikon NS
25	20	30	21	5	35	25.491	UMi	1	0	1	1.7	5.5		0			Nikon NS
25	21	45	22	15	30	25.542	Ori	4	0	4	8.0	6.5		0			Nikon NS
25	24	0	24	40	40	25.639	CMi	4	0	4	6.0	6.5		0			Nikon NS
25	26	15	26	55	40	25.733	LMi	3	0	3	4.5	6.5		0			Nikon NS
27	24	30	25	0	30	27.656	Ori	6	0	6	12.0	7.0		0			Nikon NS
27	25	5	25	35	30	27.681	Ori	3	0	3	6.0	6.5		0			Nikon NS
27	25	40	26	10	30	27.705	Cnc	3	0	3	6.0	6.5		0			Nikon NS
27	26	10	26	40	30	27.726	Hya	4	0	4	8.0	6.5		0			Nikon NS
27	26	40	27	40	60	27.757	LMi	5	0	5	5.0	6.5		0			Nikon NS
28	22	5	22	45	40	28.559	Ori	4	0	4	6.0	6.2		0			Nikon NS
28	22	45	23	30	45	28.589	Tau	2	0	2	2.7	6.2		0			Nikon NS
28	23	30	24	0	30	28.615	Aur	3	0	3	6.0	6.2		0			Nikon NS
28	24	0	24	40	40	28.639	Gem	3	0	3	4.5	6.2		0			Nikon NS
28	24	40	25	40	60	28.674	Cnc	2	0	2	2.0	6.2		3			Nikon NS
28	25	40	26	20	40	28.708	LMi	3	0	3	4.5	6.2		0			Nikon NS

29	24	5	25	5	60	29.649	Ori	1	0	1	1.0	5.0		5			Nikon NS
29	25	5	25	35	30	29.681	Per	4	0	4	8.0	6.4		0			Nikon NS
29	25	35	26	5	30	29.701	Mon	3	0	3	6.0	6.5		0			Nikon NS
29	26	10	26	50	40	29.729	Cnc	3	0	3	4.5	6.5		0			Nikon NS
29	26	50	27	20	30	29.753	LMi	3	0	3	6.0	6.5		0			Nikon NS
29	27	20	27	50	30	29.774	Crt	3	0	3	6.0	6.0		0			Nikon NS
31	23	50	24	20	30	31.628	Ori	4	0	4	8.0	6.5		0			Nikon NS
31	25	25	25	55	30	31.694	Cnc	3	0	3	6.0	6.5		0			Nikon NS
31	26	45	27	15	30	31.750	LMi	2	0	2	4.0	6.5		0			Nikon NS
31	27	15	27	45	30	31.771	Crt	5	1	6	12.0	6.5		0			Nikon NS
31	27	45	28	25	40	31.795	Vir	7	0	7	10.5	6.5		0			Nikon NS
	24	Night			2650	Min.		269	19	288	6.5						

12 月  
( Dec. )

観測者

寺迫 止典

観測地

静岡県引佐町

( Terasako Masanori )

( Inasa-tyou, Shizuoka-ken, Japan )

観測機械

15cm 29.5×2.1° L.T.

北緯

+34° 52' 29"

15cm 25×2.7° Bino.

東経

-137° 42' 22"

UT

日	開始	JST	終了	JST	分	中央時	観測方向	Plot	Seen	Total	HR	Mag	See	CI				備考
8	17	30	18	30	60	8.375	Oph,Ser,Sgr,Sct,Aql,Cap	-	3	3	3.0	10.0	rP					15cmBino.
13	17	43	19	3	80	13.391	Ser,Sct,Sgr,Mic,Aql,Cap,Psc,Oph	-	2	2	1.5	10.5	M					15cmBino.
14	17	32	18	32	60	14.376	Oph,Ser,Sct,Sgr,Mic,Aql,Cap,PsA	-	0	0	0.0	10.5	M					15cmBino.
22	17	40	18	40	60	22.382	Ser,Aql,Sct,Cap,PsA,Mic,Sgr	-	2	2	2.0	10.5	M					15cmBino.
25	17	40	18	20	40	25.375	Aql,Del,Aqr,Cap,Sgr	-	1	1	1.5	10.0	rP					15cmBino.
26	17	35	18	35	60	26.378	Aql,Sgr,Mic,Gru,Cap,Aqr,PsA	-	2	2	2.0	10.5	M					15cmBino.
27	17	47	18	47	60	27.387	Aql,Sgr,Cap,Mic,PsA,Gru	-	2	2	2.0	11.0	rG					15cmBino.
28	17	41	18	41	60	28.383	Aql,Her,Ser,Oph,Her,Sge,Vul,Dra	-	4	4	4.0	11.0	rG					15cmBino.
30	17	40	18	40	60	30.382	And,Peg,Psc,Aqr,PsA,Cap	-	1	1	1.0	10.5	M					15cm L.T.
	9	Night			540	Min.		0	17	17	1.9							

# Telescopic Meteors Observations data in December,2003

Date	Start JST	Ends JST	min.	UT	Direction	Plot	Seen	Total	HR	Mag	See	Cl			Observer	
2	19	30	20	0	30	2.448									Nikon NS	佐藤 (Satoh.T)
2	20	55	21	25	30	2.507									Nikon NS	佐藤 (Satoh.T)
2	21	55	22	25	30	2.549									Nikon NS	佐藤 (Satoh.T)
3	23	30	24	15	45	3.620									Nikon NS	佐藤 (Satoh.T)
4	23	15	24	5	50	4.611									Nikon NS	佐藤 (Satoh.T)
6	18	10	18	50	40	6.396									Nikon NS	佐藤 (Satoh.T)
6	20	5	20	50	45	6.477									Nikon NS	佐藤 (Satoh.T)
6	23	0	23	30	30	6.594									Nikon NS	佐藤 (Satoh.T)
6	26	5	26	35	30	6.722									Nikon NS	佐藤 (Satoh.T)
7	21	5	21	40	35	7.516									Nikon NS	佐藤 (Satoh.T)
7	23	10	23	40	30	7.601									Nikon NS	佐藤 (Satoh.T)
8	17	30	18	30	60	8.375									15cmBino.	寺迫 (Terasako.M)
8	21	45	22	25	40	8.545									Nikon NS	佐藤 (Satoh.T)
8	23	30	24	0	30	8.615									Nikon NS	佐藤 (Satoh.T)
9	20	50	21	20	30	9.503									Nikon NS	佐藤 (Satoh.T)
10	21	10	21	55	45	10.523									Nikon NS	佐藤 (Satoh.T)
10	23	30	24	0	30	10.615									Nikon NS	佐藤 (Satoh.T)
12	24	20	24	50	30	12.649									Nikon NS	佐藤 (Satoh.T)
12	26	40	27	10	30	12.747									Nikon NS	佐藤 (Satoh.T)
13	17	43	19	3	80	13.391									15cmBino.	寺迫 (Terasako.M)
13	21	25	22	10	45	13.533									Nikon NS	佐藤 (Satoh.T)
13	23	40	24	10	30	13.622									Nikon NS	佐藤 (Satoh.T)
13	24	40	25	30	50	13.670									Nikon NS	佐藤 (Satoh.T)
13	25	35	26	35	60	13.712									Nikon NS	佐藤 (Satoh.T)
13	26	40	27	40	60	13.757									Nikon NS	佐藤 (Satoh.T)
13	27	40	28	40	60	13.799									Nikon NS	佐藤 (Satoh.T)
13	28	40	29	30	50	13.837									Nikon NS	佐藤 (Satoh.T)
14	17	32	18	32	60	14.376									15cmBino.	寺迫 (Terasako.M)
14	22	50	23	30	40	14.590									Nikon NS	佐藤 (Satoh.T)
14	24	0	24	30	30	14.635									Nikon NS	佐藤 (Satoh.T)
15	21	15	21	45	30	15.521									Nikon NS	佐藤 (Satoh.T)

15	22	55	23	25	30	15.590	Gem	4	0	4	8.0	6.0		0			Nikon NS	佐藤 (Satoh.T)
16	22	0	22	40	40	16.556	Ori	2	0	2	3.0	6.8		1			Nikon NS	佐藤 (Satoh.T)
16	23	20	24	5	45	16.613	Gem	4	0	4	5.3	6.8		0			Nikon NS	佐藤 (Satoh.T)
17	22	0	22	30	30	17.552	Ori	2	0	2	4.0	6.7		0			Nikon NS	佐藤 (Satoh.T)
17	23	35	24	15	40	17.622	Gem	3	0	3	4.5	6.7		0			Nikon NS	佐藤 (Satoh.T)
19	24	0	24	30	30	19.635	Ori	5	0	5	10.0	7.0		0			Nikon NS	佐藤 (Satoh.T)
19	24	35	25	5	30	19.660	Cnc	2	0	2	4.0	7.0		0			Nikon NS	佐藤 (Satoh.T)
21	21	30	22	5	35	21.533	Ori	3	0	3	5.1	6.8		0			Nikon NS	佐藤 (Satoh.T)
21	22	30	23	10	40	21.576	Ori	1	0	1	1.5	6.8		0			Nikon NS	佐藤 (Satoh.T)
22	17	40	18	40	60	22.382	Ser,Aql,Sct,Cap,PsA,Mic,Sgr	-	2	2	2.0	10.5	M				15cmBino.	寺迫 (Terasako.M)
22	25	35	26	10	35	22.703	UMi	5	0	5	8.6	6.0		0			Nikon NS	佐藤 (Satoh.T)
22	26	20	26	50	30	22.733	LMi	6	0	6	12.0	6.8		0			Nikon NS	佐藤 (Satoh.T)
23	17	40	18	10	30	23.372	UMi	1	0	1	2.0	5.5		0			Nikon NS	佐藤 (Satoh.T)
23	22	30	23	0	30	23.573	Ori	1	0	1	2.0	6.2		0			Nikon NS	佐藤 (Satoh.T)
24	17	55	18	25	30	24.382	UMi	1	0	1	2.0	6.0		0			Nikon NS	佐藤 (Satoh.T)
24	23	5	23	35	30	24.597	Ori	4	0	4	8.0	6.7		0			Nikon NS	佐藤 (Satoh.T)
24	25	0	25	40	40	24.681	Cnc	9	0	9	13.5	6.7		0			Nikon NS	佐藤 (Satoh.T)
24	26	5	26	35	30	24.722	Leo	5	0	5	10.0	6.7		0			Nikon NS	佐藤 (Satoh.T)
24	26	50	27	20	30	24.753	LMi	4	0	4	8.0	6.7		0			Nikon NS	佐藤 (Satoh.T)
25	17	40	18	20	40	25.375	Aql,Del,Aqr,Cap,Sgr	-	1	1	1.5	10.0	rP				15cmBino.	寺迫 (Terasako.M)
25	20	30	21	5	35	25.491	UMi	1	0	1	1.7	5.5		0			Nikon NS	佐藤 (Satoh.T)
25	21	45	22	15	30	25.542	Ori	4	0	4	8.0	6.5		0			Nikon NS	佐藤 (Satoh.T)
25	24	0	24	40	40	25.639	CMi	4	0	4	6.0	6.5		0			Nikon NS	佐藤 (Satoh.T)
25	26	15	26	55	40	25.733	LMi	3	0	3	4.5	6.5		0			Nikon NS	佐藤 (Satoh.T)
26	17	35	18	35	60	26.378	Aql,Sgr,Mic,Gru,Cap,Aqr,PsA	-	2	2	2.0	10.5	M				15cmBino.	寺迫 (Terasako.M)
27	17	47	18	47	60	27.387	Aql,Sgr,Cap,Mic,PsA,Gru	-	2	2	2.0	11.0	rG				15cmBino.	寺迫 (Terasako.M)
27	24	30	25	0	30	27.656	Ori	6	0	6	12.0	7.0		0			Nikon NS	佐藤 (Satoh.T)
27	25	5	25	35	30	27.681	Ori	3	0	3	6.0	6.5		0			Nikon NS	佐藤 (Satoh.T)
27	25	40	26	10	30	27.705	Cnc	3	0	3	6.0	6.5		0			Nikon NS	佐藤 (Satoh.T)
27	26	10	26	40	30	27.726	Hya	4	0	4	8.0	6.5		0			Nikon NS	佐藤 (Satoh.T)
27	26	40	27	40	60	27.757	LMi	5	0	5	5.0	6.5		0			Nikon NS	佐藤 (Satoh.T)
28	17	41	18	41	60	28.383	Aql,Her,Ser,Oph,Her,Sge,Vul,Dra	-	4	4	4.0	11.0	rG				15cmBino.	寺迫 (Terasako.M)
28	22	5	22	45	40	28.559	Ori	4	0	4	6.0	6.2		0			Nikon NS	佐藤 (Satoh.T)
28	22	45	23	30	45	28.589	Tau	2	0	2	2.7	6.2		0			Nikon NS	佐藤 (Satoh.T)

28	23	30	24	0	30	28.615	Aur	3	0	3	6.0	6.2		0			Nikon NS	佐藤 ( Satoh.T )	
28	24	0	24	40	40	28.639	Gem	3	0	3	4.5	6.2		0			Nikon NS	佐藤 ( Satoh.T )	
28	24	40	25	40	60	28.674	Cnc	2	0	2	2.0	6.2		3			Nikon NS	佐藤 ( Satoh.T )	
28	25	40	26	20	40	28.708	LMi	3	0	3	4.5	6.2		0			Nikon NS	佐藤 ( Satoh.T )	
29	24	5	25	5	60	29.649	Ori	1	0	1	1.0	5.0		5			Nikon NS	佐藤 ( Satoh.T )	
29	25	5	25	35	30	29.681	Per	4	0	4	8.0	6.4		0			Nikon NS	佐藤 ( Satoh.T )	
29	25	35	26	5	30	29.701	Mon	3	0	3	6.0	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
29	26	10	26	50	40	29.729	Cnc	3	0	3	4.5	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
29	26	50	27	20	30	29.753	LMi	3	0	3	6.0	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
29	27	20	27	50	30	29.774	Crt	3	0	3	6.0	6.0		0			Nikon NS	佐藤 ( Satoh.T )	
30	17	40	18	40	60	30.382	And,Peg,Psc,Aqr,PsA,Cap	-	1	1	1.0	10.5	M				15cm L.T.	寺迫 ( Terasako.M )	
31	23	50	24	20	30	31.628	Ori	4	0	4	8.0	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
31	25	25	25	55	30	31.694	Cnc	3	0	3	6.0	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
31	26	45	27	15	30	31.750	LMi	2	0	2	4.0	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
31	27	15	27	45	30	31.771	Crt	5	1	6	12.0	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
31	27	45	28	25	40	31.795	Vir	7	0	7	10.5	6.5		0			Nikon NS	佐藤 ( Satoh.T )	
	33	Night				3190	Min.		269	36	305	5.7							