

SURVEILLANCE OF PREDICTED EVENTS

● FIRST LIST (July - October 1984)

ABSTRACT. SURVEILLANCE OF PREDICTED EVENTS : FIRST LIST (July - October 1984).

Results of some possible asteroidal occultations, from July to October 1984, are given below :

- 1984 July 16 , (386) Siegena and AGK3 + 5° 2112
3 stations , no occultation
- 1984 September 3 , (118) Menippe and SAO 143 998
1 station , no occultation
- 1984 October 16 , (735) Marghanna and AGK3 + 13° 0253
2 stations , no occultation
- 1984 October 21 , (545) Messalina and AGK3 + 36° 0536
14 stations , no occultation

RESUME. SURVEILLANCE DE PHENOMENES PREDITS : PREMIERE LISTE (juillet - octobre 1984).

Les résultats de quelques occultations d'étoiles par les petites planètes sont donnés pour la période s'étendant de juillet à octobre 1984 :

- 16 juillet 1984 , (386) Siegena et AGK3 + 5° 2112
3 stations , pas d' occultation
- 3 septembre 1984 , (118) Menippe et SAO 143 998
1 station , pas d' occultation
- 16 octobre 1984 , (735) Marghanna et AGK3 + 13° 0253
2 stations , pas d' occultation
- 21 octobre 1984 , (545) Messalina et AGK3 + 36° 0536
14 stations , pas d' occultation

I) INTRODUCTION

This first circular presents the results of the surveillance of five possible asteroidal occultations, from July to October 1984. These events were predicted by D. Dunham (1984), E. Goffin, G. Taylor and L.H. Wasserman (1983). The observations were made by professional as well as amateur astronomers aware of the usefulness of collaboration for this kind of phenomena.

II) RESULTS

No occultation was observed. Next pages give complete information about these observations, but a short summary is presented below.

- 1984 July 16, (386) Siegena and AGK3 + 5° 2112
3 stations - no occultation
- 1984 September 3, (188) Menippe and SAO I43998
1 station - no occultation
- 1984 October 16, (735) Marghanna and AGK3 + 13° 0253
2 stations - no occultation
- 1984 October 21, (545) Messalina and AGK3 + 36° 0536
14 stations - no occultation

BIBLIOGRAPHY

- Dunham, D.W. (1984). Occultation Newsletter, 3, 119
Goffin, E. (1984). Occultation of SAO stars by minor planets.
Taylor, G.E. (1983). Bulletin 29, IAU Commission 20, Working Group
on Predictions of Occultations by Satellites and Minor Planets.
Wasserman, L.H. and al. (1983). Astronomical Journal, 88, 1670

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OBSERVER	ABBR.	PLACE	LONG.		LAT.		ALT. m	INSTR.
			o	E	o	N		
CANDELA B.	CDL	F Solliès-Pont	6.0444		43.1894		70	T 210 v
CAVAGNA M.	CVG	I Sesto St Gio	9.067		45.872		1310	T 250 v
DECONINCK M.	DNK	B Bruxelles	4.3436		50.7953		79	T 150 v
LHEUREUX A.	LHX	B Bruxelles	4.3436		50.7953		79	T 200 v
LOUYS L.	LYS	B Bruxelles	4.3831		50.8128		147	T 282 v
MIDAVAINÉ T.	MDA	F Paris	2.3447		48.8486		80	L 153 v
C.E.R.G.A. Obs.	cer	F Caussols	6.9267		43.7483		1270	T 1500 pp
Haute-Prov. Obs.	ohp	F St-Michel	5.7133		43.9317		700	s.results
Meudon Obs.	meu	F Meudon	2.2314		48.8050		162	T 1000 tv
PINSON J.	PNS	F La Seyne s/M	5.8725		43.0992		50	T 350 v
ROUSSELOT P.	RST	F Besançon	5.9875		47.2494			T 400 v
SOSTERO G.	SOS	I Tavagnacco	13.22		46.18		120	T 225 v
THOORIS B.	THO	B Wervik	3.081		50.786		17	T 115 v
VAN CAMP J.	JVC	B Waarloos	4.4547		51.1072		5	T 200 v
VAN LOO F.	FVL	B Heist/Berg	4.7136		51.1061		10	B 100 v
ZIMMERMANN L.	ZMN	B Bruxelles	4.3831		50.8128		147	L 158 v

Table I: Observers, places, geographical positions and instruments

column 1: Obs. means Observatory

column 2: Abbreviation of the observer's name
(small letters for the professional observatories)

column 3: B for Belgium, F for France, I for Italy

columns 4 and 5: East Longitude and North Latitude in degrees and decimals

column 6: Altitude in metres

column 7: Instrument (aperture in mm) and equipment used
 T for reflector v for visual observation
 L for refractor pp for photoelectric photometer
 B for binoculars tv for video camera and recorder

Following tables: Results of the observations

column 1: Observer's abbreviated name (table I, column 2), and result of the observation (+/-).

column 4: Method of timing and recording (MR), timekeeping (MT)

MR	MT
P Photoelectric	R Radio signal (standard time signal)
X Chronograph	C Clock (adjusted by standard time signal)
T Tape recorder	T Telephone
V Television	

A) 1984 July 16, (386) Siegena and AGK 3 + 5°2112

ABBR. +/-	OBSERVATION			COMMENTS (Times in U.T.)	MR
	Start	U.T.	End		MT
	h m s		h m s		
CVG -	00 20		00 44		TR
ohp -	00 25		00 45	good sky visual observation	
PNs -	00 28		00 47		

B) 1984 September 3, (188) Menippe and SAO I43998

THO -	18 55		19 27 00	no observation, owing to clouds, between 19h03m15s to 19h05m22s 19h09m38s to 19h13m45s 19h22m18s to 19h26m32s	XT
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C) 1984 September 14, (6) Hebe and anonymous star (10.7)

meu -	04 07 30		04 19	Hebe passed $\approx 2''$ south of the star. Least distance around 04h11.4m. The star seemed one magnitude brighter than expected (brighter than Hebe).	VT
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D) 1984 October 16, (735) Marghanna and AGK 3 +13°0253

RST -	00 30		00 50	The pair asteroid-star was well separated during all the observation, at 70X.	
SOS -				The pair asteroid-star was separated, at closest distance, at 300X only.	TC

E) 1984 October 21, (545) Messalina and AGK 3 +36° 0536

ABBR. +/-	OBSERVATION			COMMENTS (Times in U.T.)	MR
	Start h m s	U.T.	End h m s		MT
CDL -	04 05 00		04 30 00	good conditions	
DNK -	04 04		04 29	good conditions	TR
LHX -	04 14		04 30	good conditions	TR
LYS -	03 55 15		04 26 48	good conditions	
MDA -	04 17		04 29	troublesome clouds	
cer -	03 55		04 23	good conditions	P
ohp -				T 800 pp Messalina seems to have T 1930 tv passed east of the star	P V
meu -	03 58 04 07 10 04 13		04 02 04 09 10 04 18	variable transparency (clouds) technical problems in declination no occultation longer than 1 sec.	VT
PNS -	03 59 50		04 35 00	good conditions	
THO -	04 05		04 40	very good conditions	TT
JVC -	03 50 04 12		04 07 04 35	troublesome clouds	
FVL -	04 00		04 19	good conditions	
ZMN -	03 55 00		04 26 25	good conditions	