

ASTEROIDAL OCCULTATION - REPORT FORM

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|          EAON          | |          IOTA/ES          | |
|          |            | | INTERNATIONAL OCCULTATION |
| EUROPEAN ASTEROIDAL  | | TIMING ASSOCIATION      |
| OCCULTATION NETWORK  | |          EUROPEAN SECTION |
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1 DATE 2019/10/29: STAR: TYC 1932-00469-1 ASTEROID: Sylvia (87)
 2 OBSERVER: Name: Pascal ANDRE (31-France) Abbr:
 E-mail: pascal.andre9@free.fr
 Address: 7 rue du 19 mars 1962 -31570 Ste Foy d'Aigrefeuille (France)

3 OBSERVING STATION: Nearest city: Belesta en Lauragais (31 - France)
 Station: Belesta observatory (MPC code A05)
 Longitude N 43 26 39.4 (WGS84)
 Latitude E 01 48 58.6 (WGS84)
 Altitude (m): 234 (MSL)

Double station (Specify observer's name):

Observers :

- Jean-Christophe Lachurié
- Pierre-Michel Bergé
- Frédéric Pailler
- Pascal André

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4 TIMING OF EVENTS:  +-----+
|                    | |                    |
| EVENT REPORTED: POSITIVE | |                    |
|                    | |                    |
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Event code

S: observation Start I: Interruption start
 D: Disappearance J: Interruption end
 R: Reappearance B: Blink F: Flash
 E: observation End O: Other (specify)

Abbreviations

P.E.: Personal Equation = reaction time (for visual obs)
 Acc.: Accuracy (overall accuracy of the given time)

Event Code	Time (UT) HH:MM:SS.ss	P.E. S.ss	Acc. S.ss	Comments
S	- 23:34:21.88 -	-	:	
B	- 23:35:42.38	-0.08	:	0.24 s event with a 52% drop (0.8 mag drop)
D	- 23:38:11.70 -	-0.08	:	
R	- 23:38.32.82 -	-0.08	:	
	- -	-	:	
E	- 23:44:08.80 -	-	:	

Duration : 21.12s

Mid-event :

see corresponding light curve

5 TELESCOPE: Type: Newton Reflector

Aperture: 300mm F/D=6

Mount: EQ - Motor drive: AD + DEC / MCMT-PRISM control

6 TIMING & RECORDING:

Time source: IOTA-VTI GPS 1PPS

Sensor: Watec 910HX (1/2inc ccd sensor analogic PAL camera integration X8 Gain 38)

Recording: IOTA VideoCapture software (avi file lagarith codec) -USB grabber
StarTech SVID2USB23

Processing Tangra 3.6 /AOTA Tool

Time insertion (specify): time stamping on each frame , OCR reading by Tangra 3.6

7 OBSERVING CONDITIONS:

Atmospheric transparency: clear Wind: NO Temperature: 13°C

Star image stability: Good Minor planet visible: YES (mode 16x)

8 ADDITIONAL COMMENTS:

Watec 910HX/IOTA VTI :Correction of the internal delay applied according to Dangle's tables (x8 integration = -0,1s)
short event observed before sylvia occultation, 0,8 mag drop during 0.24s
(origin ?)

see détails here <http://www.qfastro.club/doku.php?id=cr:2019-10-29>