

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: 2020/08/08 STAR: UCA4 419-096262 ASTEROID: 2002 MS4 N°: 307261  
 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 E 01 48 58.6 (WGS84)  
 Latitude N 43 26 39.4 (WGS84)

Altitude (m): 234 (MSL)

Double station (Specify observer's name):

Observers :

- Jean-Christophe Lachurié
- Pascal André

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4 TIMING OF EVENTS:  +-----+
|                     | |                     |
| EVENT REPORTED: NEGATIVE | |                     |
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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	- 20:44:49	-	-	: 50 s after prediction (we were not on time due to a technical problem : pc reboot)
I	- 20:51:43			cloud
J	- 20:52:05			
I	- 20:53:44			cloud
J	- 20:54:39			
E	- 21:25:13	-	:	

5 TELESCOPE: Type: Newton Reflector Aperture: 200mm F/D=5  
 Mount: AZ-EQ - Motor drive: AD + DEC / ASCOM

6 TIMING & RECORDING:

Time source: IOTA-VTI GPS 1PPS

Sensor: Watec 910HX (1/2inc ccd sensor analogic PAL camera integration X32 Gain 41)

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

Processing Tangra 3.7

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

#### 7 OBSERVING CONDITIONS:

Atmospheric transparency: variable with mid altitude clouds Wind: NO  
Temperature: 28°C

Star image stability: average Minor planet visible: NO

#### 8 ADDITIONAL COMMENTS:

In 1-sigma zone and 53 km NW outside the shadow path

Neither occultation nor satellite detected between 20:44:59 and 21:25:13