

ASTEROIDAL OCCULTATION - REPORT FORM

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|          EAON          | |          IOTA/ES          |
| EUROPEAN ASTEROIDAL  | | INTERNATIONAL OCCULTATION |
| OCCULTATION NETWORK  | | TIMING ASSOCIATION        |
|                       | | EUROPEAN SECTION          |
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1 DATE 2019/09/29: STAR: UCAC4-418-000694 ASTEROID: EUROPA (52)

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: Aurin (31 - France)
 Station: Aurin (31) France
 Longitude N 43 32 27.6 (WGS84)
 Latitude E 01 41 26.0 (WGS84)
 Altitude (m): 241 (MSL)

Double station (Specify observer's name):

Observers :

- Michel LLIBRE
- Cedric LATGE
- Pascal ANDRE

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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	- 02 57 25 -	-	:	
-	- - -	-	:	
D	- 03 02 16.83 -	-0.09	:	
R	- 03 02 41.03 -	-0.23	:	
-	- - -	-	:	
E	- 03 10 03 -	-	:	

Duration : 24.20s
 Mid-event :
 see corresponding light curve

5 TELESCOPE: Type: Newton Reflector Aperture: 200mm F/D=5

Mount: AZ EQ6 - Motor drive: AD + DEC / EQ MOD control

6 TIMING & RECORDING:

Time source: IOTA-VTI GPS 1PPS

Sensor: Watec 910HX (1/2inc ccd sensor analogic PAL camera integration X2 Gain 40)

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: 14°C

Star image stability: Good Minor planet visible: YES (mode 8x)

8 ADDITIONAL COMMENTS:

Watec 910HX/IOTA VTI :Correction of the internal delay applied according to
Dangl's tables

see détails here <https://www.qfastro.club/doku.php?id=cr:2019-09-28>