

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 2019/09/29: 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)

				Comments
Event Code	Time (UT) HH:MM:SS.ss	P.E. S.ss	Acc. S.ss	
S -	02 57 25	-	-	:
-	-	-	-	:
D -	03 02 16.92	-	-0.17	:
R -	03 02 39.82	-	-0.15	:
-	-	-	-	:
E -	03 10 03	-	-	:

Duration : 22.90s

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 lagarithm 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>