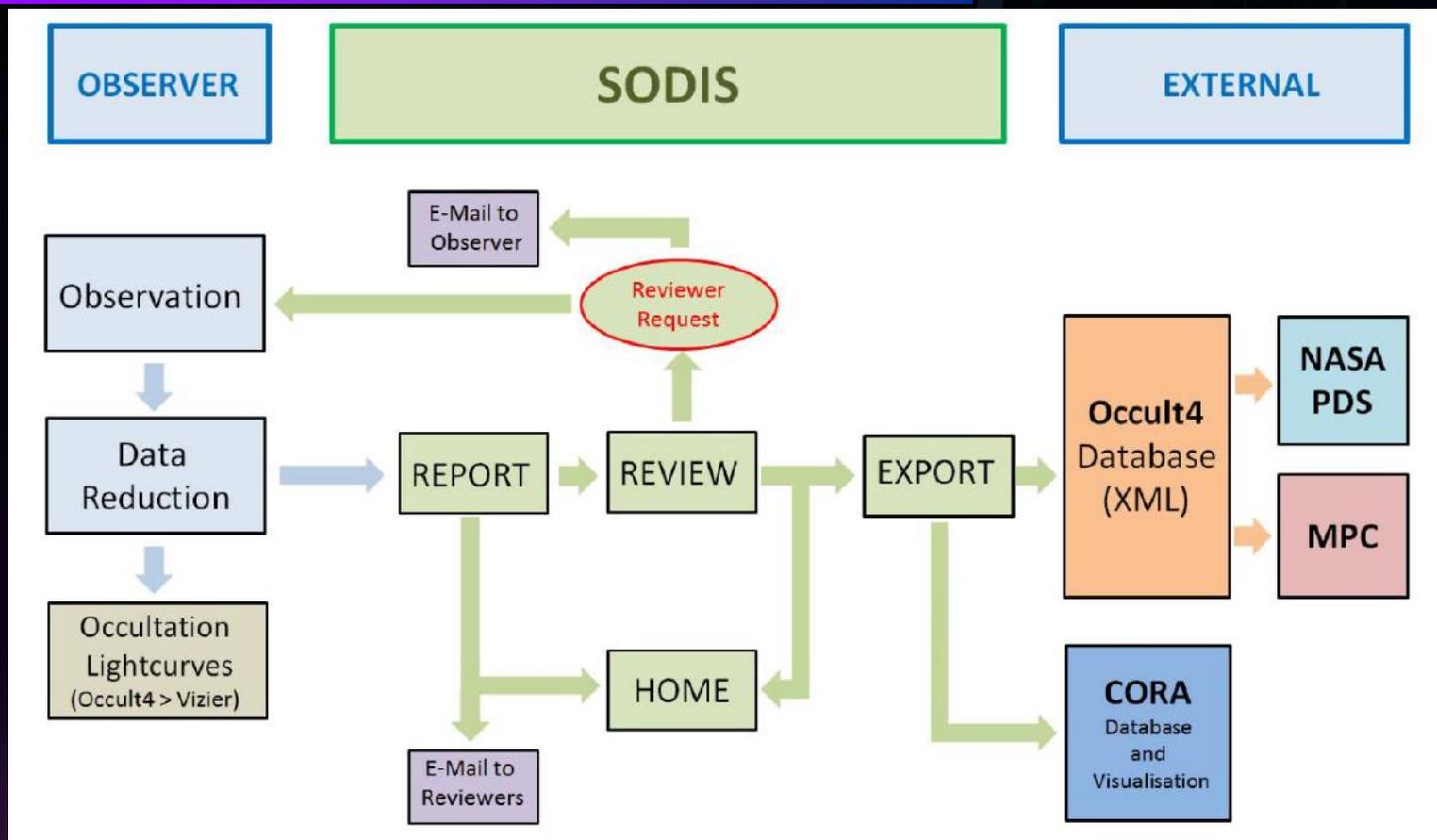




# Atelier de photométrie Gemini Pro-Am

Arnaud Leroy – 08/06/2024

# Fonctionnement



# Organisation

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## 3 types de comptes

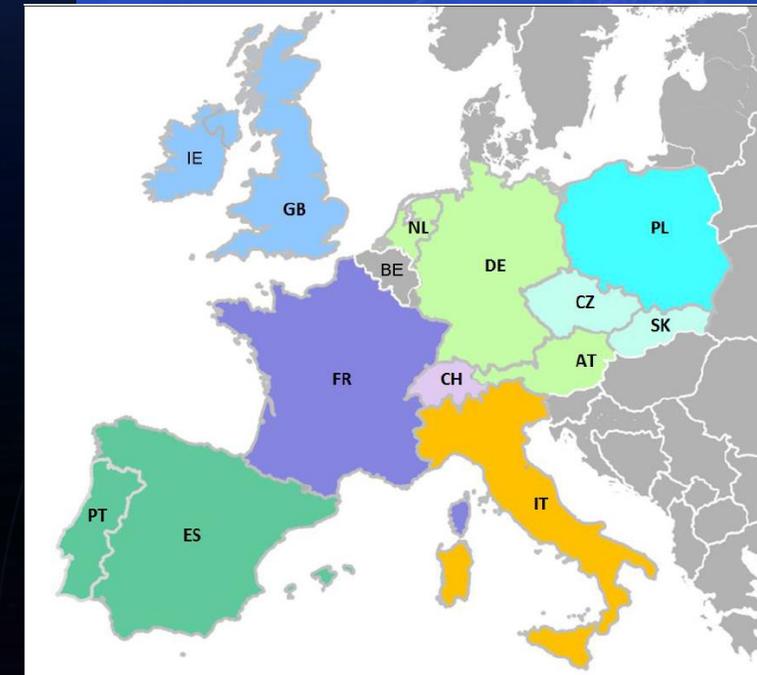
- Observateurs
- Reviewers
- Administrateurs

A ce jour : observateurs 261 , reviewers 31, admins 4

Et 3 “exporters” qui envoient les données à Dave Hérald

# Organisation

## Les équipes de « review »



### Reviewer teams

The review areas and the names of the reviewers are:

Team	Chief reviewer	Deputy reviewer	Reviewer
<b>BE</b>			Olivier Schreurs (BE), Roland Boninsegna (BE)
<b>CH</b>	Jonas Schenker (CH)	Stefan Meister (CH)	
<b>CZ+SK</b>	Jan Manek (CZ)	Jiri Polak (CZ)	Karel Halir (CZ)
<b>DE+AT+NL</b>	Wolfgang Beisker (DE)	Gregor Krannich (DE)	
<b>EE+LT+LV</b>		... coming soon ...	
<b>ES+PT</b>	Carlos Perello (ES)	Ricard Casas (ES)	Carles Schnabel (ES)
<b>FR</b>	Thierry Midavaine (FR)	Arnoud Leroy (FR)	Pierre le Cam (FR), Matthieu Conjat (FR)
<b>GB+IE</b>	Tim Haymes (GB)	Alex Pratt (GB)	Simon Kidd (GB), William Stewart (GB)
<b>GR</b>		... coming soon ...	
<b>IT</b>	Stefano Sposetti (CH)	Claudio Costa (IT)	
<b>PL</b>	Wojciech Burzynski (PL)	Daniel Blazewicz (PL)	

### Exporters of SODIS results to D. Herald

Sven Andersson, Wolfgang Beisker, Tim Haymes, ... [reinforcement in prospect](#) ...

# Envoyer un rapport

Un fichier « template » est mis à disposition pour pré remplir les informations

- <https://forum.iota-es.de/attachment.php?aid=45> (occultation positive)
- <https://forum.iota-es.de/attachment.php?aid=44> (occultation négative)
- [https://iota-es.de/sodis/Sodis\\_manual\\_engl.pdf](https://iota-es.de/sodis/Sodis_manual_engl.pdf) : **Le manuel !!! A lire avec attention**

```
#IOTA-ES ASTEROIDAL OCCULTATION - REPORT FORM 2.03
#Event
#Occultation: POSITIVE
#DATE: 25 August 2022
#PREDICTTIME: 25 Aug; 2022 20:03:31 UT
#STAR: UCAC4 350-187717
#ASTEROID: Hildrun
#Nr: 928
#OBSERVER
#Observer1: Wilhelm Herschel
#Observer2:
#moreObs:
#E-mail: myemail@myprovider.de
#Address: mystreet 5, 12345 MyCity
#OBSERVING_STATION
#NearestCity: Berlin
#Countrycode: DE
#Coordinates LAT +/-DD MM SS.S LON +/-DDD MM SS.S
#Latitude: +52 50 48.5
#Longitude: +013 22 13.7
#Altitude: 37.4
#Datum _blank=WGS84 N=WAD1927 E=ED1950 T=Tokyo G=G81936 *=unspecified, or other
#Datum:
#Teleskop _=unspecified 1=Reflector 2=Newtonian 3=SCT 4=Dobsonian 5=Binoculars 6=Other 7=lone 8=scope
#Telescope: 3
#Aperture in cm
#Aperture: 36
#FocalLength in cm
#FocalLength: 277
#ObservingMethod _=unspecified a=Analogue & digital video b=Digital SLR-camera video c=Photometer d=Sequential images e=Drift scan f=Visual g=Other
#ObservingMethod: a
#Observation
#StartObs: 20:01:34.99
#D D=Main Star d=second Star G=satellite main star g=satellite 2nd star N=ring M=non detection +time hh:mm:ss
#D: D20:02:30.0
#Acc_D: 0.5
#R R=Main Star r=second Star B=satellite main star b=satellite 2nd star N=ring M=non detection +time hh:mm:ss
#R: R20:02:34.0
#Acc_R: 0.5
#EndObs: 20:03:34.01
#Duration: 4.0
#Exp_Time: 1.0
#Timesource _=unspecified a=GPS b=NTP c=Telephone (fixed or mobile) d=Radio time signal e=Internal clock of recorder f=Stopwatch g=Other
#Timesource: a
#Camera: QHY174M GPS
#Signal/Noise:
#Weatherconditions
#Wind: 0
#Temperature: 22
#Transparency 1=Clear 2=Fog 3=Thin cloud <2 [mag loss <2 mag.] 4=Thick cloud >2 [mag loss >2 mag, 5=Broken opaque cloud [that is, observed thru gaps in the cloud] 6=Star faint 7=By averted vision
#Transparency: 1
#Stability _=unspecified 1=Steady 2=Slight flickering 3=Strong flickering
#Stability: 1
#Comments: here only really important remarks
```

# Une occultation positive

SODIS – Entries for a positive report (v.01)

Read Form	Choose File	No file chosen	Read in an event file created by OccultWatcher here (recommended, see User Guide)				READ		
Occultation	Positive	Choose	Date	08/02/2023	Predictdate	08/02/2023	Predicttime	22:08:51	
Observer 2	Paul Miller	Optional	Name of a second observer (only, nothing else) (The name of the first observer is automatically filled in)		Predictdate		Predicttime		
Star	UCAC4 641-041764, TYC 1843-01187-1	Fill in	Asteroid	1999 VZ52	Fill in	No	24127		
Nearest City	Xtown	Fill in	Country Code	AD	Choose				
Latitude	-02 30 58.0	Fill in	Longitude	10 22 58.7	Fill in	Altitude	53	Datum Type	WGS84
Telescope	Newtonian	Choose	Aperture	20.3	Fill in	Focal Length	89	Optional	
Obs Method	Analogue & digital video	Choose	Exp Time	0.32	Optional				
Start Obs	22 05 30	Fill in	234	ms	End Obs	22 10 32	563	ms	
D	Main star	Choose	D Time	22 06 35	233	ms	Acc_D	0.17	Fill in
Duration	3.051	Fill in							s
R	Main star	Choose	R Time	22 06 38	284	ms	Acc_R	0.34	Fill in
Time Source	GPS	Choose	Camera	QH174GPS	Optional	Signal/Noise	8.5	Optional	
Wind	2	Optional	Temp	-12	Optional	Transparency	Clear	Choose	Seeing
		Bft.	°C				Clear	Choose	Steady
							Clear	Choose	unsteady
							Clear	Choose	Choose

Drag & drop here (or browse) required images and files according to the SODIS User Guide, p. 4, [https://iota-es.de/sodis/Sodis\\_manual\\_engl.pdf](https://iota-es.de/sodis/Sodis_manual_engl.pdf)

Drag & Drop your files or Browse

Entry all times in UTC !

Example is fictitious

Legend: Blue: Entry examples  
Red: Mandatory entries  
Green: Optional entries (recommended)

Usually, here no comments required/allowed. Do not comment about the prediction or other things. See <https://forum.iota-es.de/showthread.php?tid=106>

# Une occultation négative

SODIS – Entries for a negative report (v01)

Read Form  No file chosen **Read in an event file created by OccultWatcher here (recommended, see User Guide)**

Occultation **Negative**  Date **08/02/2023**  Predictdate **08/02/2023**  Predicttime **22:08:51**  Predicted date and time of the event (Not the time when the prediction was made)

Observer 2 **Paul Miller**  Name of a second observer (only, nothing else) (The name of the first observer is automatically filled in)  More Obs  (Check if three and more observers, these can not be named)

Star **UCAC4 641-041764, TYC 1843-01187-1**  Asteroid **1999 VZ52**  No

Nearest City **Xtown**  Country Code **GB**

Latitude **-02 30 58.0**  Longitude **10 22 58.7**  Altitude **53**  m Datum Type **WGS84**

Telescope **Newtonian**  Aperture **20.3**  cm Focal Length **89**  cm

Obs Method **Analogue & digital video**  Exp Time **0.32**  s.ss

Start Obs **22 05 30 234**  End Obs **22 10 32 563**

D **Non Detection**  D Time **HH No entry SS ms** Acc\_D **No entry** s.ss

Duration **No entry** s

R **Non Detection**  R Time **HH No entry SS ms** Acc\_R **No entry** s.ss

Time Source **GPS**  Camera **QHY174GPS**  Signal/Noise **8.5**

Wind **2**  Temp **-12**  Transparency **Clear**  Seeing **Steady**

Drag & drop here (or browse) required images and files according to the SODIS User Guide, p. 4, [https://iota-es.de/sodis/Sodis\\_manual\\_engl.pdf](https://iota-es.de/sodis/Sodis_manual_engl.pdf)

Drag & Drop your files or Browse

**Entry all times in UTC !**

Comment

**Example is fictitious**

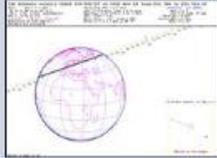
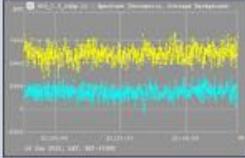
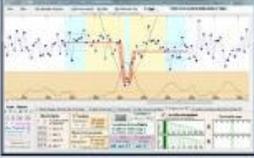
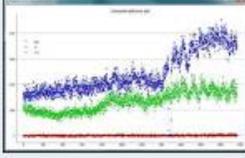
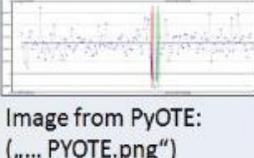
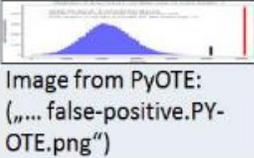
**Legend:**  
 Blue: Entry examples  
 Red: Mandatory entries  
 Green: Optional entries (recommended)

Usually, here no comments required/allowed. Do not comment about the prediction or other things. See <https://forum.iota-es.de/showthread.php?tid=106>

# Envoyer un rapport

Les autres informations à fournir

*A ajouter désormais : le fichier csv de la courbe de lumière*

Pipeline	Event	Overview	Reduction	Log
Tangra, AOTA	 PNG-Image from Occult-Watcher: „Open Event in Occult“	 PNG-Image from Tangra: „Export lc / Save as Image File“	 PNG-Image from AOTA: „tab 5“	 Textfile („... AOTA_Report.txt“) from AOTA „tab 6“: „Save Report“
Py-Movie, PyOTE	 PNG-Image from Occult-Watcher: „Open Event in Occult“	 PNG-Image from PyMovie: „Plot“ („Composite Lightcurve Plot“)	 Image from PyOTE: („... PYOTE.png“)  Image from PyOTE: („... false-positive.PYOTE.png“)	 Textf. („... PYOTE.log“) from PyOTE
Other (SORA, Li-movie, ...)	Please provide similar information as described above.			

**Figure 1.12.** Data reduction pipeline depending observer required additional submissions (case of event detection - positive observation).

# Etude du rapport

## La procédure de review

- Un ou plusieurs reviewers regardent le rapport et vérifie les informations
- Si tout est correct validation
- Si il manque quelque chose ou si la réduction des données est à affiner , demande via Sodis (qui envoie un mail à l'observateur) - Parfois , nous contactons les observateurs directement par mail pour l'envoi de certains fichiers trop lourds pour la base
- Une fois les informations complétées et correctes , création du fichier .dat pour l'envoi dans Vizier de la courbe de lumière, et validation .
- Note: toutefois , si des doutes subsistent sur la qualité du timing , nous avons la possibilité de donner un poids aux données

# Exportation du rapport

## Exportation vers le logiciel Occult

- Les administrateurs s'occupent des exportations de données vers Dave Herald (Occult).
- Si un problème est détecté lors de cette exportation , les reviewers et administrateurs sont contactés pour donner et/ou corriger les informations
- Dave Herald , une fois les observations validées , envoie les observations sur la base du Minor Planet Center , ainsi que les fichiers .dat vers dans la base de données Vizier

# Conclusions

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- A ce jour , il y a depuis le 1<sup>er</sup> janvier 2023, 4080 entrées (1315 au 18 juin 2023)
- Dont 2582 négatives et 1498 positives
- 219 observations pour la France , 113 positives et 106 négatives
- Les profils d'astéroïdes seront disponibles dans la base Cora et dans Occult (une fois validés par Dave Herald et Dave Gault)