

# Campagne (319) Leona - Betelgeuse

Retour des données d'observations

Arnaud Leroy – 28 octobre 2023

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Occultation Portal v2.19

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## Upcoming Events

Oct.	<a href="#">(186844) 2004 GA1</a>
	Star Mag. (G): 11.94
14	Magnitude drop: 6.81m
	Maximum duration: 0.22 sec
09:56:20 (UT)	Dynamic class: NEA
	Info: <input type="button" value="OW Cloud"/>
	Feed: <b>ACROSS</b> Asteroid Collaborative Research via Occultation Systematic Survey
Oct.	<a href="#">(95802) Francismuir</a>
	Star Mag. (G): 14.23
15	Magnitude drop: 5.22m
	Maximum duration: 0.61 sec
00:38:37 (UT)	Dynamic class: NEA
	Info: <input type="button" value="OW Cloud"/>
	Feed: <b>ACROSS</b> Asteroid Collaborative Research via Occultation Systematic Survey

## Register for an Account

**Username\***

Only alphanumeric characters are allowed.

**First name\***

First name

**Last name\***

Last name

**Email\***

Enter a valid email address

**Institution**

Institute or organization

# December 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26 7:40a (468861) 2013LU	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11 1:17a Leona	12	13	14	15	16
17	18	19	20	21	22 7:51a (78799) 2002XW	23
24	25	26	27	28	29	30

Notice board

OccultPortal says...  
No new announcement found.

Object: Leona  
 Is active campaign?: Yes  
 Star Mag. (G): -0.2m  
 Magnitude drop: 13.8m  
 Maximum duration: 5.6 sec  
 Moon phase: 1.2 %  
 Moon distance: 151.3°  
 Central occ. probability: 67.1%  
 Dynamic class: mba  
 Object diameter: 60.0 km  
 Feed: LuckyStar

▼

1:17a Leona

# Add Leona to my events

**Please consider the explanations below.**

- If you plan to participate in this campaign, select the **"Planned"** option in the **Timing of events** field.
- You can update all the information you filled out on this form anytime from [My Events](#) tab.

**Event title\***

Leona

**Event date\***

2023-12-12 01:17:08+00:00

**Observatory\*** +

Mobile

**Telescope\*** +

SW FLEXTUBE

**Detector\*** +

QHY174M GPS

**Filter\*** +

no filter

**Exposure time (in sec.)**

Event information

**Star astrometric position with proper motion (ICRF):**



05 55 10.3468 +07 24 25.644 [🔗](#)

<b>Date</b>	Dec. 12, 2023, 1:17 a.m.
<b>Source ID (Gaia)</b>	27989
<b>Star G mag</b>	-0.2
<b>Star RP mag</b>	-

**Exposure time (in sec.)**  
ex: 3.0

**Observer\***  
ex: Y. Kilo, F. Braga-Ribas

**Observation start**  
HH:MM:SS (UT)

**Observation end**  
HH:MM:SS (UT)

**Ambient temperature (°C)**

**Region of interest**  
 Aucun fichier choisi  
Please upload an image file (.png, .jpg, etc.) with the target star marked.

**Timing of events\***  
Planned  
Please select the status of your observation.

**Atmospheric transparency\***  
Clear


**Wind\***  
Calm (< 2 km/h)

**Star image stability\***  
Good

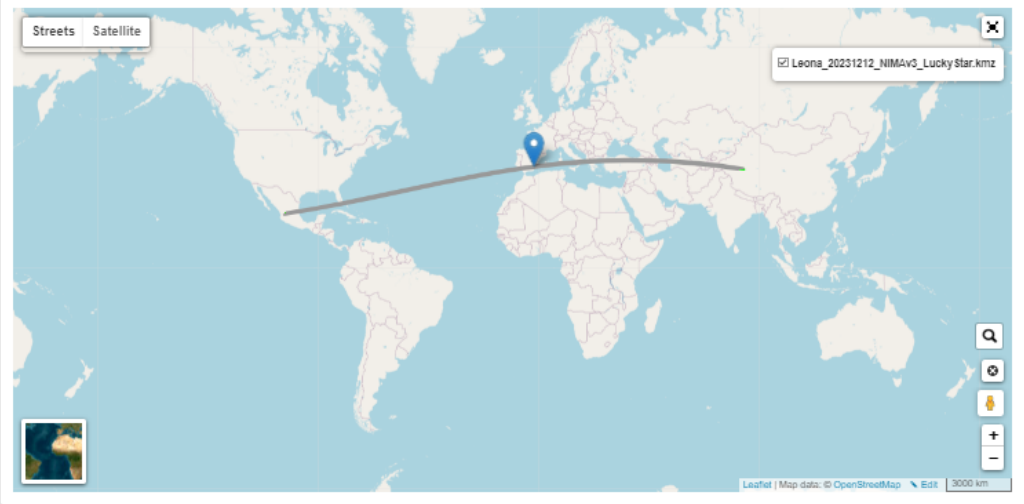
**Minor planet visible\***  
No

**Additional comments**

**Additional files**  
 Aucun fichier choisi  
Supplementary documents only (.doc, .xls, .txt, .pdf, .etc.), you can use (.zip, .rar, etc.) for multiple documents. Observational data WILL BE uploaded in the NEXT STEP.

Star RP mag	-
Star K mag	-
Magnitude drop in R	13.8
Maximum duration	5.6 sec
Moon	1.2 % illum.   151.3° deg.
Reference:	

Map



**Important note**

*\*Absolute time accuracy is essential\**  
To connect all the observations together after the fact, absolute time accuracy is essential. Check the time of your computer with many sources (ideally with a GPS). It's advised to check the registered time right after and right before the integrations, so if there is a drift, we can correct it by having the difference. Beware of the dead time between the images: if you manage an exposure time of 1 second (for example), but your camera takes 2 sec to read the image, then there is a 87% chance that you miss the dis(re)-appearance of the star [chance of mission =  $1 - (1/1.47)^2$ ]. So, it's better to have, for example, 4 sec integration, so you have 87% chance to get the occultation in one of your exposures [chance of action =  $4/(4.7)^2$ ].