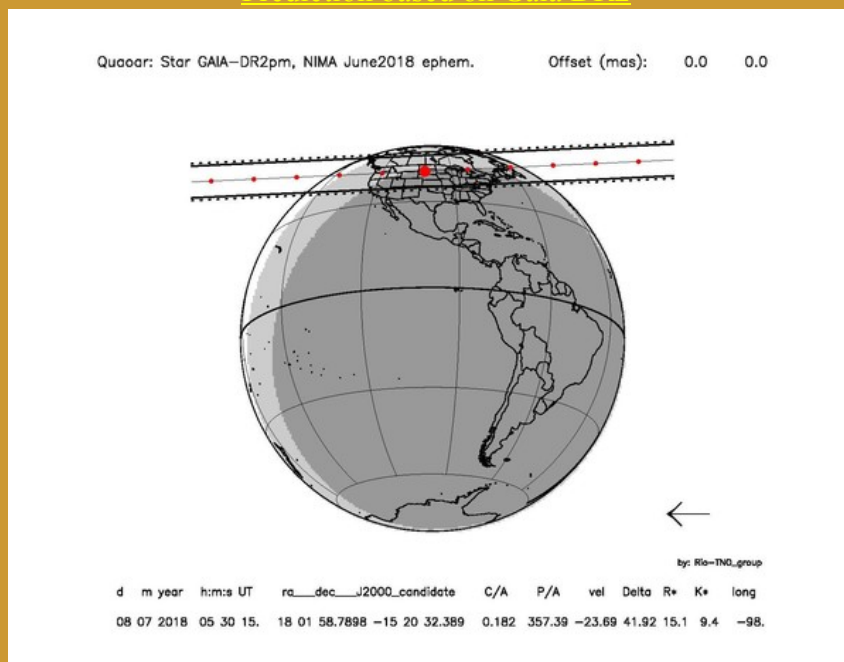


Quaoar 08/07/2018

Prediction based on Gaia DR2



Observation tips:

- Shadow moves from ****East to West****;
- The nominal occultation time on the map, corresponds to the big red dot, the closest approach.
- **Each red dot is separated by one minute**;
- Dark gray is night and light gray is astronomical twilight (Sun at less than 18 deg below the horizon);
- ***Absolute time accuracy is essential*** (see important note below);
- **Observations are requested from 05:25 to 05:35 Universal Time.**
- Quaoar satellite (Weywot) position is not well known, so, to have a chance to detect it, we recommend to observations from 5:15 to 5:45.

After the observation, please fill the form available on this link ([form](#)), and send it to [ribas\(at\)on.br](mailto:ribas(at)on.br).

Useful information:

Star J2000 coordinates:	
RA 18 01 58.790	
DEC -15 20 32.39	
Day coordinates of the object:	
RA 19 00 38.781	
DEC -15 22 16.067	

Star V mag	13.880
Star R mag	14.360
Star G mag	14.562

Star K mag	12.290
Magnitude drop in R	6.6
Maximum duration	47 sec
Moon 30% illum.	@ 115 deg

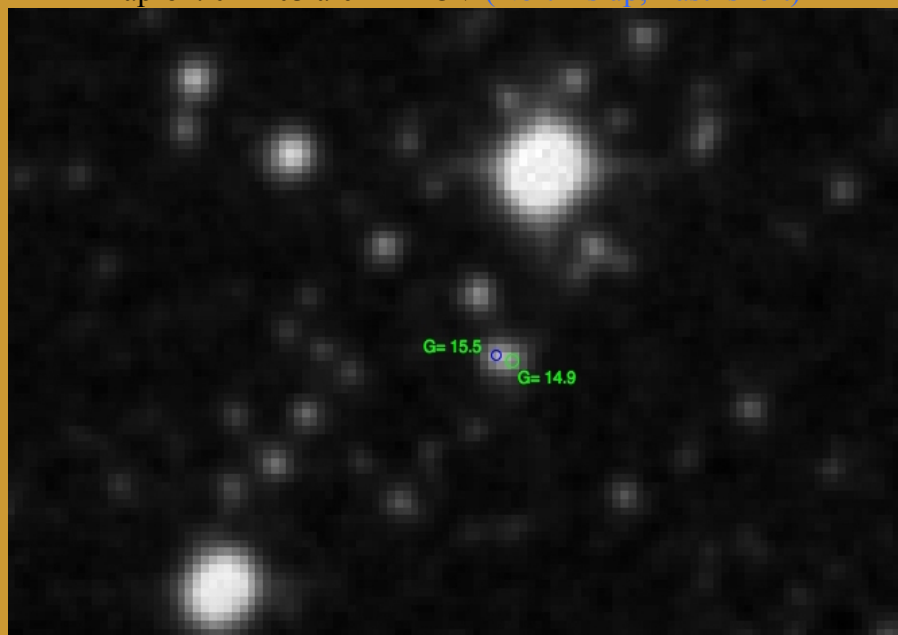
Important note:***Absolute time accuracy is essential****

to connect all the observations together after the fact. Check the time of your computer with many sources (phone talked hour, different internet sites, ideally with a GPS). Its 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 sec (for example), but have your camera takes 2 sec to read the image, then there is a 67% chance that you miss the dis(re)-appearance of the star. So it's better to have, for example, a 4 sec integration, so you have 67% chance to get the occultation in one of your exposures.

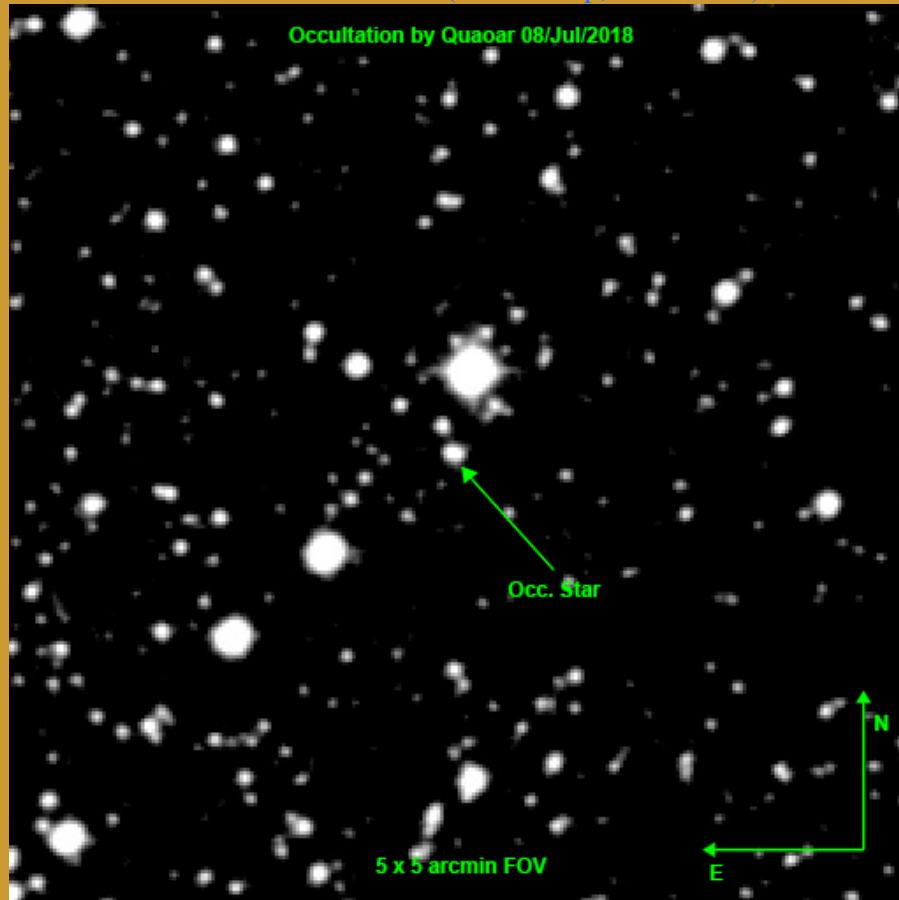
Finding charts from DSS:

aprox. 02 x 03 arcmin FOV (North is up, East is left)

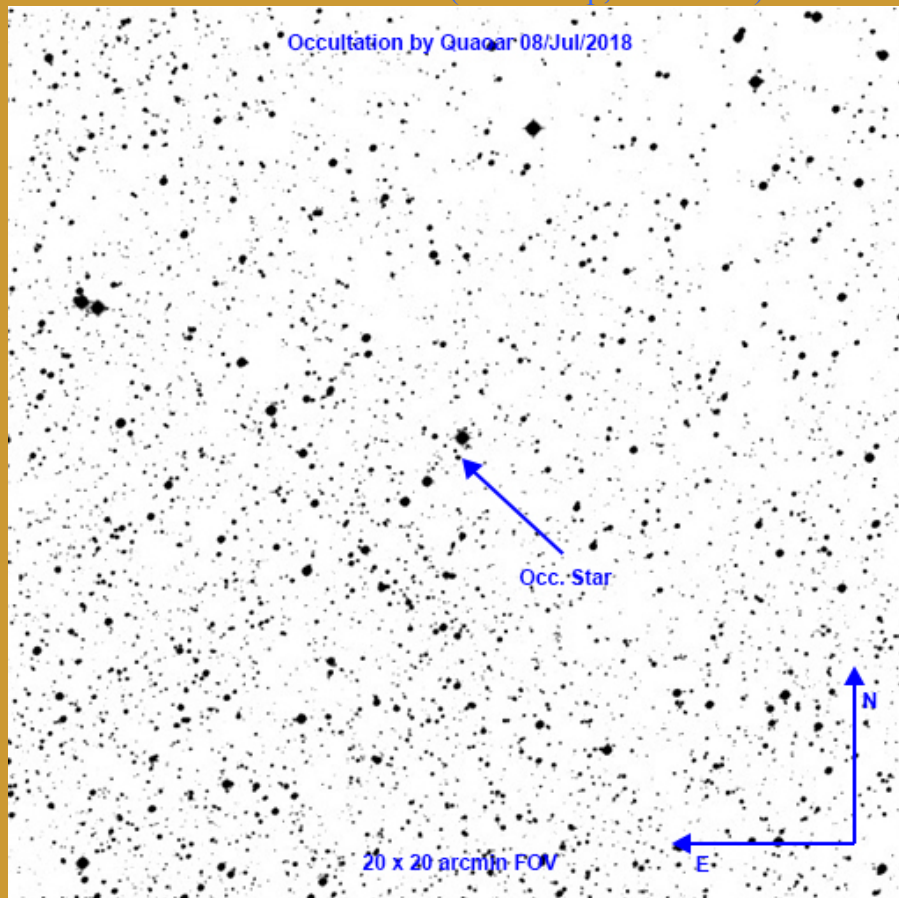


****Those telescopes that were not able to resolve the stars, should consider that the SW (G=14.9) star was occulted, and that the expected magnitude drop is of about 1 mag.--***

05 x 05 arcmin FOV (North is up, East is left)

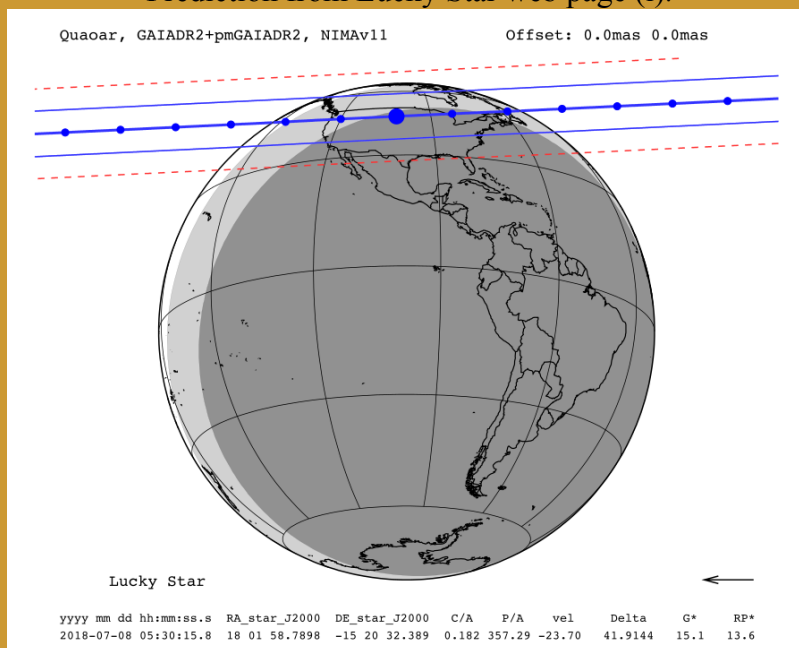


20 x 20 arcmin FOV (North is up, East is left)



Prediction

Prediction from Lucky Star web page (i).



(i) <http://lesia.obspm.fr/lucky-star/predictions/single.php?p=8731>

Please, see the [observation tips](#) at the top!