Gmail Elizabeth M Warner <adastragrl@gmail.com>

[IOTAoccultations] Digest Number 7269

1 message

IOTAoccultations@yahoogroups.com <IOTAoccultations@yahoogroups.com> Wed, Jul 11, 2018 at 8:20 PM
Reply-To: No Reply <notify-dg-IOTAoccultations@yahoogroups.com>
To: IOTAoccultations@yahoogroups.com

YAHOO! GROUPS **open discussion for occultations Group**

10 Messages **Digest #7269**

Messages

1a Re: Looking for Mystery Answer.Help Please

Tue Jul 10, 2018 8:06 pm (PDT) . Posted by: bdbdobuser

Tammy,

I have not had much success with searches going back that far. Venus might be ruled out if you were looking south: it's more in the east before dawn or west after sunset. Try searching for Jupiter conjunctions and see if you can spot triples among the results.

I had better luck scanning through the days with Stellarium after turning off show ground and show fog in the landscape viewing options.

Bart

You wrote:

Yes I have been searching Stellarium and I am excited you found the Jupiter/Venus Close Nov 3 & 4. I will look. I also saw Mars & Venus close on 5/11/77. Saw a cool conjunction on with Mars and Venus and Moon 5/14/77 but sure moon would drown out. All important is my vantage point is N. Oklahoma City and I was facing South. It was above me but in the south. Best I remember it was too cool to stay outside long so November a great possibility.

How do I search for triple conjunctions?

Thank you

Tammy

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1b Re: Looking for Mystery Answer.Help Please

Tue Jul 10, 2018 8:29 pm (PDT) . Posted by: tedjswift

Tammy,
Consider the season, too. Do you remember it being cold (needed a coat to stay outside and enjoy the sight) or pleasantly warm?
-Ted S

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2 Warning - time inserters go POOF!

Tue Jul 10, 2018 10:27 pm (PDT) . Posted by: "Derek C Breit" dbreit

A word of warning.. It may never happen to anyone other than me, which is why I am mentioning it in an effort to be the only one,
but avoid static on the video input line of the time inserter or it will go POOF and no more Video In..

But I can at least still set my watch to the time inserter, which is nice.. Would be nicer if I could insert time onto a video
stream, but ya can't have everything..

Derek

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3a Pulcova - successful recording of the occultation from Santa Cruz

Tue Jul 10, 2018 11:15 pm (PDT) . Posted by: rickn27

Tonight's event came off w/o a hitch. Got a successful recording, from 8 minutes before, to 4.5 minutes afterwards, to look for the reported satellite. No satellite event evident in my watching it live on the LCD screen, but the occultation was about as long as expected, around 16 seconds. Hopefully others got this nice event right through the Bay Area tonight.

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3b Re: Pulcova - successful recording of the occultation from Santa Cru

Wed Jul 11, 2018 12:41 am (PDT) . Posted by: tedjswift

Woohoo, Rick! That makes four observers and four positives (with a fifth observer out in Nevada near the satellite path appearing earlier in OW, but I don't see them now):

Seth Anthony 94.9 km East at Klamath Falls OR, ~1.6 sec
--- Right limit 91.9 km ----

Ted Swift 35.6 km East at Davis CA, ~17.5 sec
--- Center Line ----
Rick Nolthenius -8.1 km West at Aptos CA, 17 sec

Jim Dunford -15.6 km West near Mountain View CA, 17.9 sec

The predicted maximum duration was 15.9 sec, and we have several in the 17-17.9 sec range, suggesting Pulkova is somewhat larger and its albedo is lower than expected. My event center was about 3 sec later than predicted, within the +/- 5 sec uncertainty.
I was pleased that I was able to reliably see the target star with a Night Eagle Astro with Night Exposure =1, minimal integration, despite the 11.8 combined magnitude.
The only previous Pulcova occultation had one positive.
-Ted S

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3c Re: Pulcova - successful recording of the occultation from Santa Cru

Wed Jul 11, 2018 7:11 am (PDT) . Posted by: "Ted Blank" ted_tenor

Congratulations Ted S. and other observers! Ted, what aperture scope?

Thanks,
Ted B.

Sent from my iPhone

> On Jul 11, 2018, at 12:41 AM, tjswift@ucdavis.edu [IOTAoccultations] <IOTAoccultations@yahoogroups.com> wrote:
>
> Woohoo, Rick! That makes four observers and four positives (with a fifth observer out in Nevada near the satellite path appearing earlier in OW, but I don't see them now):
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> -Ted S
>

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3d Re: Pulcova - successful recording of the occultation from Santa Cru

Wed Jul 11, 2018 10:34 am (PDT) . Posted by: tedjswift

Ted B wrote:

> Ted, what aperture scope?

I was using an 8" Celestron Nexstar f/10 SCT, a Meade f/3.3 focal reducer, the Night Eagle Astro I bought from you at Carson City (Astro 2?), KIWI-OSD, and Canon ZR-45 miniDV camcorder.
The mag 12.8 target star+asteroid was faint but visible at NS=1. I'm taking the video to LiMovie next.

-Ted S

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4a The Quaoar target is a close double

Wed Jul 11, 2018 2:17 pm (PDT) . Posted by: iotadunham

Nearly equal components 2 arc seconds apart, so look for smaller drops in your recordings as explained by Felipe below.

From: Felipe Braga Ribas [felipebribas@gmail.com]
Sent: Monday, July 09, 2018 12:57 PM
To: David Dunham
Cc: Bruno.Sicardy@obspm.fr; buie@boulder.swri.edu; josselin.desmars@obspm.fr
Subject: Re: Quaoar event results

Dear David,

indeed the target star has a companion ~2.2 arcsec to the NE, which is
a little bit fainter (14.9 against 15.5 G mags).
Considering that most of the observers were not able to resolve the
stars, they should consider a magnitude drop of about 1, depending on
the effective bandpass of their setup. This information is now on my
webpage:
http://lesia.obspm.fr/lucky-star/campaigns/2018-07-08_Quaoar.html
http://lesia.obspm.fr/lucky-star/campaigns/2018-07-08_Quaoar/FOV_2x3_TwoStars_Quaoar.jpeg

Please advise the observers to reanalyze their videos to search for
this order of magnitude drop.

Kind regards,
Felipe

2018-07-09 12:50 GMT-03:00 David Dunham <david.dunham@kinetx.com>:
> Hi Bruno,
>
> You wrote:
>
> thank you for the report. Are the negatives outside the predicted
> band?
>
> - Yes, inside and outside. Our site at Millington, Maryland was near the predicted southern limit. But we have negative observations from as far north as Columbia, in northwestern Montana, and as far south as Santa Fe, New Mexico, and no positive observations. The observer at Fan Mountain Observatory in Virginia said the target star seemed elongated, as if it's double, and that could have adversely affected the prediction. He's analyzing his images, to try to quantify. David
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> PS having trouble now with my starpower email, so sending from this one.

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4b Re: The Quaoar target is a close double

Wed Jul 11, 2018 2:54 pm (PDT) . Posted by: "Sam Deen" planetaryscience

Just to add onto that, David:

Fortunately, that doesn't change the occultation position, because the target star was the eastern member of the pair.
~Sam
On Wednesday, July 11, 2018, 2:17:40 PM PDT, dunham@starpower.net [IOTAoccultations] <IOTAoccultations@yahoogroups.com> wrote:

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#yiv7202505793ygrp-mkp .yiv7202505793ad a {color:#0000ff;text-decoration:none;}#yiv7202505793
#yiv7202505793ygrp-sponsor #yiv7202505793ygrp-lc {font-family:Arial;}#yiv7202505793 #yiv7202505793ygrp-
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:square;padding:6px 0;}#yiv7202505793 #yiv7202505793ygrp-sponsor #yiv7202505793ov ul {margin:0;padding:0 0 0 8px;}#yiv7202505793 #yiv7202505793ygrp-text {font-family:Georgia;}#yiv7202505793 #yiv7202505793ygrp-text p {margin:0 0 1em 0;}#yiv7202505793 #yiv7202505793ygrp-text tt {font-size:120%;}#yiv7202505793 #yiv7202505793ygrp-vital ul li:last-child {border-right:none !important;}#yiv7202505793

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4c Re: The Quaoar target is a close double

Wed Jul 11, 2018 5:19 pm (PDT) . Posted by: "Marc Buie" plutoflag

All -

Please, if you observed the Quaoar event, make sure to get the raw image data to someone in one of the various professional groups involved. We have tricks that can go beyond the tools generally available. I don't care who you send it to. If you make it available to the RECON project I will make sure that Bruno (Lucky Star) and Felipe (Rio Group) will also get a copy. This doesn't make any of your lightcurves obsolete. In fact, these are really good guide posts to help know where extra effort is warranted. Everything is used.

This will be a challenging analysis that will take all the skills of everyone involved. From reports so far, it's clear that we all want to be very thorough on this one and we might even get something interesting out at the end...

--Marc

On 7/11/18 3:17 PM, dunham@starpower.net [IOTAoccultations] wrote:
>
>
> Nearly equal components 2 arc seconds apart, so look for smaller drops
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>
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