Gmail **Daniel Fabrycky <daniel.fabrycky@gmail.com>**

dark frames DIY

2 messages

Daniel Fabrycky <fabrycky@uchicago.edu> Tue, Sep 6, 2022 at 7:01 AM
To: microobservatory@cfa.harvard.edu

Hi Microobservatory,

I am using the DIY planet search to teach about transit detection in my Exoplanets class at the University of Chicago. Thank you for this service! My user name is DanielFabrycky and email fabrycky@uchicago.edu .

I'm having trouble loading in dark fields. When I first loaded in a new dataset, they appeared, but then disappeared once all the data had loaded. That may mean the job is done, but I don't think so because when I press "Calibrate," it asks for me to load the dark frame. If I load one that I downloaded earlier (same telescope and all) then reload the image, as per the instruction video, it still is not recognized. I am using the Mozilla Firefox 104.0 browser on Ubuntu 20.04.5 LTS.

Please advise, thank you,
Dan Fabrycky

Dussault, Mary <mdussault@cfa.harvard.edu> Tue, Sep 6, 2022 at 8:05 AM
To: Daniel Fabrycky <fabrycky@uchicago.edu>
Cc: diyadmin@cfa.harvard.edu, "Frank F. Sienkiewicz" <fsienkiewicz@cfa.harvard.edu>

Hi Dan,

It's great to hear that you are using DIY Planet Search - Yes, we just had a major upgrade of our systems (php and database code) - which we're finding has introduced some weird glitches such as the dark frame issue you're noticing. At the same time, we're temporarily without a full-time software developer, so we may be a bit slow to catch up with some of these issues. In the meantime, there is a work-around for getting the darks:

For any particular dataset, you can manually download and upload the specific dark from our MicroObservatory Recent Image Directory:
https://waps.cfa.harvard.edu/microobservatory/MOImageDirectory/ImageDirectory.php

MicroObservatory Image Directory

This directory contains all recent images taken by the MicroObservatory Telescopes.

- To preview an image, click on the **Image Filename**.
- To process an image in our JS9-4L image processor, click on the **JS9/4L** link after the filename.
- To download an image, click on the file icon after the filename.
  Note: Images are store in the directory for ONLY FOUR WEEKS!

Go back to MicroObservatory

Images are currently sorted by Date & Time ▼

ATTENTION USERS: This website and others at the Center for Astrophysics | Harvard & Smithsonian are currently undergoing a major upgrade, and may be offline for a period of 1-3 days. Thank you for your patience while we improve your user experience.

Date Range Past 10 Days | Past 20 Days | Past 30 Days

All Darks

Image Filename	Date & Time (UT) ▼	Open JS9/4L	FITS Image	Field of View	Exposure Time (sec)	Filter	Object	Telescope	Site	User	Size (KB)	Weather
Dark-B-220906073613	06-Sep-2022 07:36:13	JS9/4L		Main	60.00	Opaque	Calibration	Ben	AZ	moguest	91	96% Clear
Dark-B-220906073355	06-Sep-2022 07:33:55	JS9/4L		Main	60.00	Opaque	Calibration	Ben	AZ	moguest	93	96% Clear
Dark-A-220906040028	06-Sep-2022 04:00:28	JS9/4L		Main	60.00	Opaque	Dark-A-	Annie	MA	moguest	132	95% Clear
Dark-B-220905073913	05-Sep-2022 07:39:13	JS9/4L		Main	60.00	Opaque	Calibration	Ben	AZ	moguest	92	96% Clear
Dark-B-220905073650	05-Sep-2022 07:36:50	JS9/4L		Main	60.00	Opaque	Calibration	Ben	AZ	moguest	94	96% Clear
Dark-A-220905040027	05-Sep-2022 04:00:27	JS9/4L		Main	60.00	Opaque	Dark-A-	Annie	MA	moguest	139	95% Clear

From the "Sort by Object" Pull down menu, select "ALL DARKS" - and you'll get a list of all the dark frames taken from the last 10 days (and note at the top that you can get the last 30 days if you're using an older dataset.)

Find the Dark-B-22MMDDHHMMSS Fits file from the date of your dataset, and click on the FITS Image icon to download that Dark file - then you can use the Image--Open menu within the JS9 Measure Brightness Tool in DIY Planet Search to open the dark and Calibrate.

This will work during a single session, but note that each time a student closes the browser and comes back to do more photometry, they may have to upload the dark image again.

Let me know if this doesn't make sense and I'll try to explain better.

Also, have you used our Group Functionality yet? Under your profile, you can create Group accounts so that your students can all collaboratively make measurements on the same dataset and generate a single lightcurve (e.g., instead of a student having to measure 100 images across 5 hours, each of 20 students can make 5 measurements or so...)

Try it out!

happy observing,
Mary

Mary Dussault
Instructional Systems Specialist | Program Manager
Science Education Department

Center for Astrophysics | Harvard & Smithsonian

Office: (617) 496 7962 | Fax: (617) 496 5405
60 Garden Street | MS 71 | Cambridge, MA 02138

CENTER FOR
ASTROPHYSICS
HARVARD & SMITHSONIAN

cfa.harvard.edu | Newsletter

[Quoted text hidden]