

Lightcurve Excel Sheet Instruction

First open the template and rename to '<your star> template'. Make sure this is saved as a Excel Macro-Enabled Workbook (it is for the macro program for the 'HJD' tab).

With the template:

Template is going to have the first night you have worked with so you can work from then on (worry about this later).

First tab you have date <YYMonthDD> and second tab is the same except <YYMonthDD HJD>.

A1 <name of your star>

AK1 <UT> (AQ3 + AR3/60 + AS3/3600)

AL1 <Targ> (formula: <Mag w/ the smallest error target - Mag w/ the smallest error compare**>)

AM1 <Err> (< Targ*SQRT(smallest targ error ^2 - smallest compare error ^2) / (2.5LOG(2.7182))

AN1 <% Err> (Targ/Err * 100)

****IMPORTANT:** Make sure you use the same COMPARE STAR!!!! If not, please make note somewhere in the excel sheet or a notebook.

Input DATA procedure:

Click at **A1** (target star)

- Click *Data* (Look at menu bar at micro. office, top)
- Click *Properties*, uncheck *Save query definition*, then click *OK* twice
- Click *From Text*, view *All Files (*.*)*, and click on your target.dat file
- You will enter *Text Import Wizard*
- Bubble *Delimited*, *Next*
- Uncheck *Tab*, Check *Space* and *Other*, with *Other* insert (:) into box, *Next*
- Click *Finish*
- Go to *Properties* on the *Import Data* pop-up box, at *Properties* at the bottom change *Insert cells for new data..* to *Overwrite existing cells with...*
- Click *OK* and *OK* again
- And the data will be inserted**

****IMPORTANT:** Data inserted, make sure the UT time is changing (AKA..the first three columns in front of the magnitudes)

Do this for the other stars: **AQ3**, **CB3**...etc (incase you have more than one compare star)

Go to the formulas and change mags and error that will be in use, click on first box, hold on small square and drag down column until it fills all rows that will be in use. **DO NOT DELETE BAD DATA YET!!!**

There will a graph somewhere in the template (or you can delete it and make your own)

Graph:

Title: Magnitude

X-Axis: UT Time (column **AK**)

Y-Axis: Magnitude (column **AL**)

Do this for the rest of your nights before working on HJD Tab!!

HJD tab coming soon to you. XD