ISIS

Integrated Spectrographic Innovative Software

Created by Christian Buil

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- Focus on Lhires III 2400 lines/mm
- C-14, f/11, Focal Length 3556 mm
- Image scale Bin 1x1=.24 arcs / pixel
- Local seeing ~ 1.5 2.0 arcs
- Sampling:(1.5-2.0)/.24 arcs/pixel=6.25-8.33 pixels
- Bin 2x2:sampling is about 3-4 pixels

- Atik 460 EX imaging camera
- Atik 414 EX for star field/guiding
- Connect your cameras "backwards" with the Sky X. (Camera is guide camera, Autoguider is you spectra camera – It's confusing)



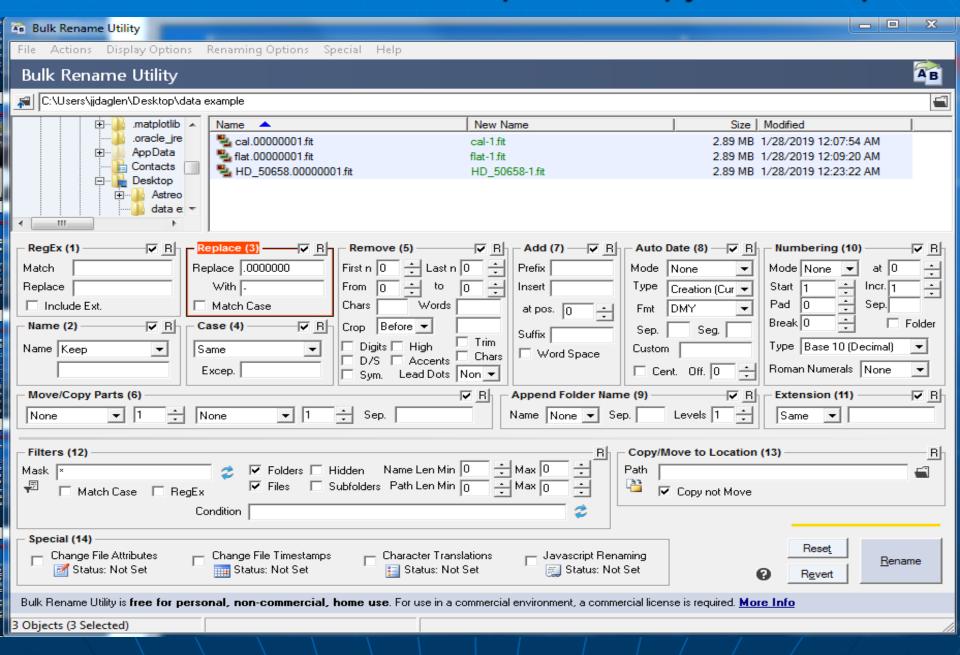
Sacramento Mountains Spectroscopy Workshop <u>ISIS Requirements:</u>

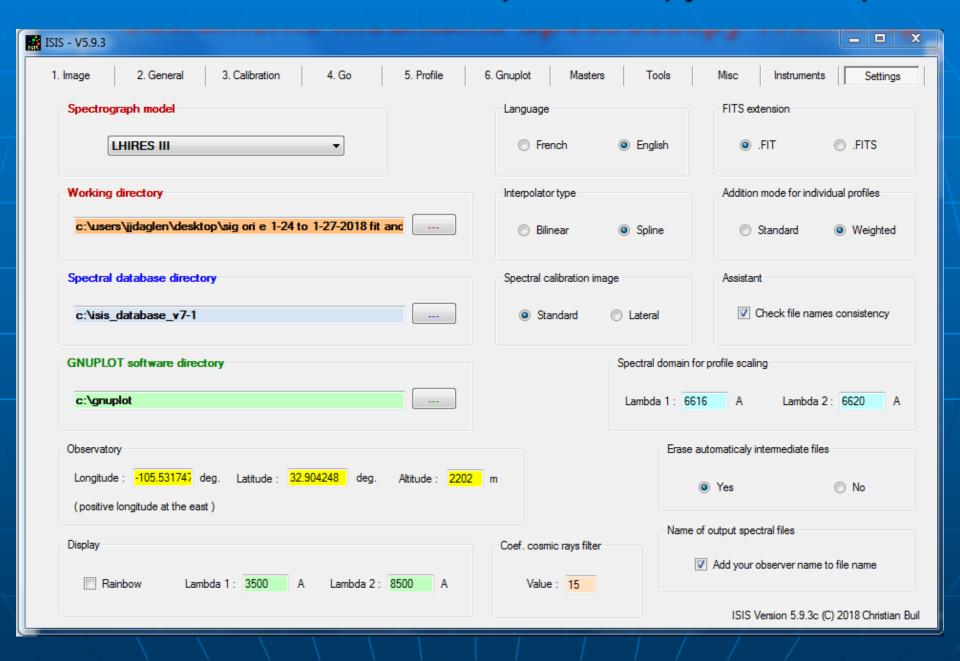
- 1. ISIS likes what it likes for files & file names!
- If you don't give it what it wants, it will scold you in French! You may not know what it says, but you know you are in trouble or are missing something. You will be speaking French in no time.
- Once you are setup, use the right names, and fill in the settings, ISIS will be your lifelong productive Friend.

- All work is done in a single designated file or folder called "Working directory"
- Ex: 2-22-2019 HD_6226_V442_And or
- 20190222_V442_And or
- 20190222V442And
- Many ways to be obsessive
- Put this folder where it is most convenient.
- Ex: c:/ 20190222V442And or
- c:/Libraries/Documents/My Documents

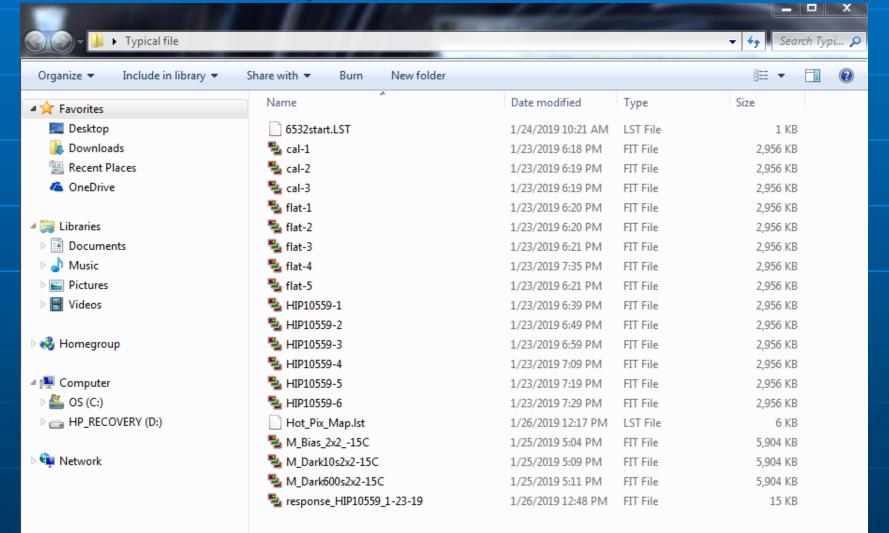
- How to name: All files must look like this.
- HD_6226-1 ----→If you leave any blank spaces you will have to do 10 pushups in order to proceed. (Those pushups have to be in French).
- Root Name, a connector (called suffix), and an index (1,2,3,4 not 1,3,4,5 and not 2,3,4,5)

- This naming system allows ISIS to go into a folder and find all the right stuff, in the right order, that it needs for processing all your data files.
- Most likely, <u>none</u> of your files will even look close to this when you acquire your data. With the SkyX you get .0000001.
- You can rename your files by hand or with "Bulk Rename Utility"
- You will use [Replace 3] for most of your name changes.

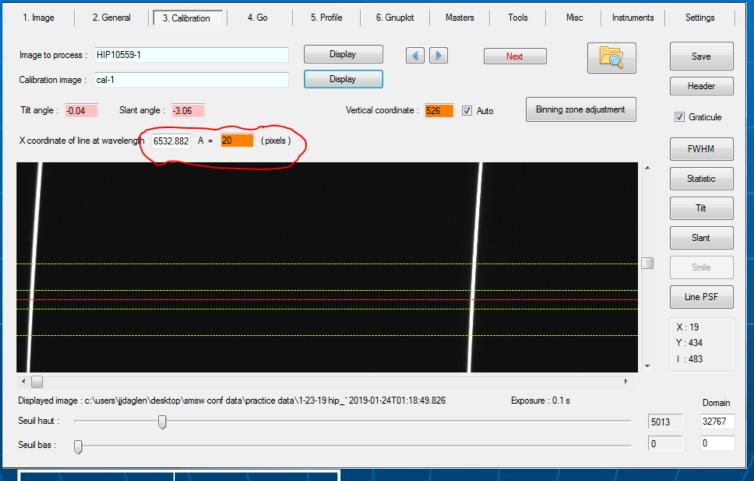




What will my file look like to start?



How to do a NOT Predefined Calibration



6678.28 A	1294 pix
6532.88 A	19 pix
145.4 A	1275 pix

145.4/1275 = .114 A/pix

Make a simple .lst (list) file in Notepad and put it in your working file. Save as \rightarrow "a name that makes sense".lst (not as .txt which is the default)

