

1. **Save your subs** to the appropriate folders (Lights, Flats, Darks, Biases).
2. **Set your Home** to the folder containing the folders with the images.
3. Click *Home* and go to the Lights folder. Review each of your subs in the preview window and delete any with artifacts.
4. **Stack your images.**
  - a. For a **Single Night** (or everything combined). Run the [OSC\\_Preprocessing.ssf](#), [OSC\\_Preprocessing\\_WithoutDBF.ssf](#), or [Seestar\\_Preprocessing.ssf](#) script.
  - b. For **Multiple Nights**. Stack each night separately with [OSC\\_Preprocessing.ssf](#). Select the pp\_light\_# files from each run's process folder. Rename them and save them together in a new Lights folder. Stack again with [OSC\\_Preprocessing\\_WithoutDBF.ssf](#).
  - c. As an alternative load all the files and run the [AMSP.py](#) script.
5. **Crop your stacked image** to remove artifacts around the edges.
6. **Remove Gradients** by Extracting the Background within Siril or with the [GraXpert-AI.py](#), [AutoRBE.py](#), or [VeraLux\\_Nox.py](#) script.
7. Run **Image Plate Solver** and then adjust the color with **Photometric Color Calibration (PMCC)** or **Spectrophotometric Color Calibration (SPCC)**.
8. **Remove the Stars** with **Starnet Star Removal** or the [SyQon-Starless.py](#) Scrip.
9. **Stretch the Starless Image**. Choose from Option 1-5 and then Optional Step 1 or 2.
  - a. (Option 1 HT): Run the **Histogram Transformation** and perform the automatic stretch.
  - b. (Option 2 ASINH & HT): Do a more manual stretch.
    - i. Run **ASINH Transformation** until you just see your image.
    - ii. Run the **Histogram Transformation**
      - Crop the shadows (move shadow slider to the right).
      - Brighten the image (move mid-point slider to the left).
  - c. (Option 3 GHS): Run the **Generalize Hyperbolic Stretch Transformations**.
  - d. (Option 4 SS): Run the [Statistical\\_Stretch.py](#) script.
  - e. (Option 5 VLHM): Run the [VeraLux\\_HyperMetric\\_Stretch.py](#) script.
  - f. (Further Option Step 1): Run the **Curves Transformation** or [VeraLux\\_Curves.py](#) script. Pull the shadows down and mid-tones up.
  - g. (Further Option Step 2): Run the **ASINH Transformation**. Adjust the Black Point.
10. **Remove Noise** within Siril or the [CosmicClarity\\_Denoise.py](#), [GraXpert-AI.py](#), [VeraLux\\_Silentium.py](#) or [SyQon-Prism.py](#) script. You can do this to the starless image after an initial stretch and before any addition adjustments (e.g., curves). Calculate the noise level with **Tools > Image Analysis > Noise Estimation**.
11. **Recombine the Stars** with **Star Recomposition** within Siril, or the [VeraLux Star Composer.py](#) scrip. While using the Siril process, **stretch the starmask image**. Adjust the stretch factor ( $\ln(D+1)$ ) from 1 to 10 using either:
  - a. **Simple** (default).
  - b. **Advanced** and **Generalized Hyperbolic Transformation**.
12. **Sharpen the stars** using deconvolution within Siril or with the [CosmicClarity\\_Sharpen.py](#) script.
13. Further sharpen the image by running script [HDR\\_multiscale.py](#) or [VeraLux\\_Revela.py](#). You can also do this to the starless image above.

# Siril Workflow

