

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](#), [VeraLux_Nox.py](#), or [AutoGradientRemoval.py](#) script.
7. Run **Image Plate Solver** and then adjust the color with **Photometric Color Calibration (PMCC)** or **Spectrophotometric Color Calibration (SPCC)**.
8. **Sharpen the stars and/or object** using deconvolution within Siril or with the [CosmicClarity_Sharpen.py](#) or [BlurXTerminator.py](#) script. Maybe do this at the end after stretching?
9. **Remove Noise** within Siril or with the [CosmicClarity_Denoise.py](#), [GraXpert-AI.py](#), [VeraLux_Silentium.py](#), [SyQon-Prism.py](#), or [NoiseXTerminator.py](#) script. Maybe do this after an initial stretch?
10. **Remove the Stars** with **Starnet Star Removal** or the [SyQon-Starless.py](#), [StarXTerminator.py](#), or [CosmicClarity_Darkstar.py](#) script.
11. **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.
12. **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**.
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.
14. Calculate the noise level (after stretching) with **Tools > Image Analysis > Noise Estimation**.

	Gradiant Removal	Denoise	Sharpen / Deconvolution	Remove Stars* Recombine Stars**	Stretch
Siril	AutoGradiantRemoval			Starnet+++ Star Recomposition**	HT ASINH GHS Curves
GraXpert	GraXpert Gradiant	GraXpert Denoise			
Seti Astro (Cosmic Clarity)	AutoBGE	CC Denoise	CC Sharpen	CC Darkstar*	Statistical
VeraLux	Nox	Silentium		Star Composer**	VL HyperMetric VL Curves
SyQon		Prism (Mini) & DeepPrism	Parallax (Nano) & Parallax (Pro)	Starless (Zenith) & Starless (Axiom)*	
RC Astro		NoiseXTermnator	BlurXTerminator	StarXTerminator*	

Siril Workflow

