PREPARING FOR

APERTURE PHOTOMETRY

USING THE

AstroImageJ
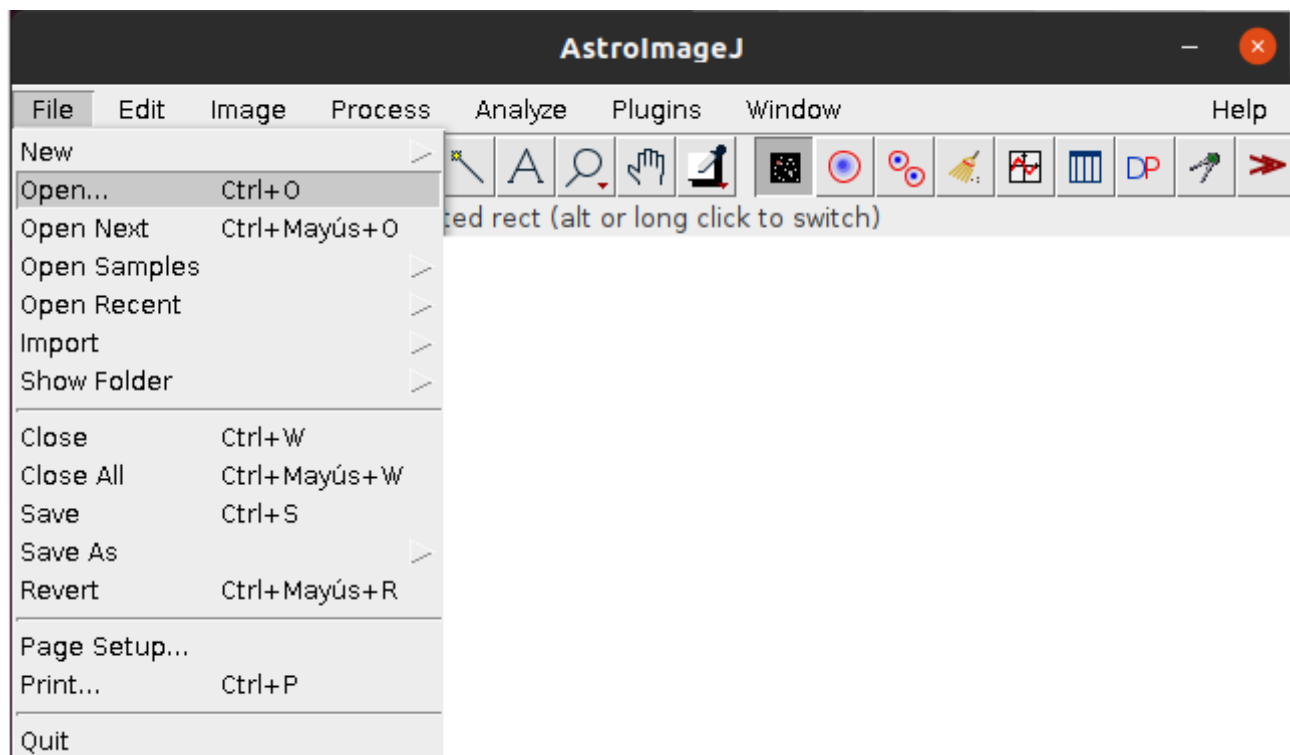
SOFTWARE

Stelios Pyrzas
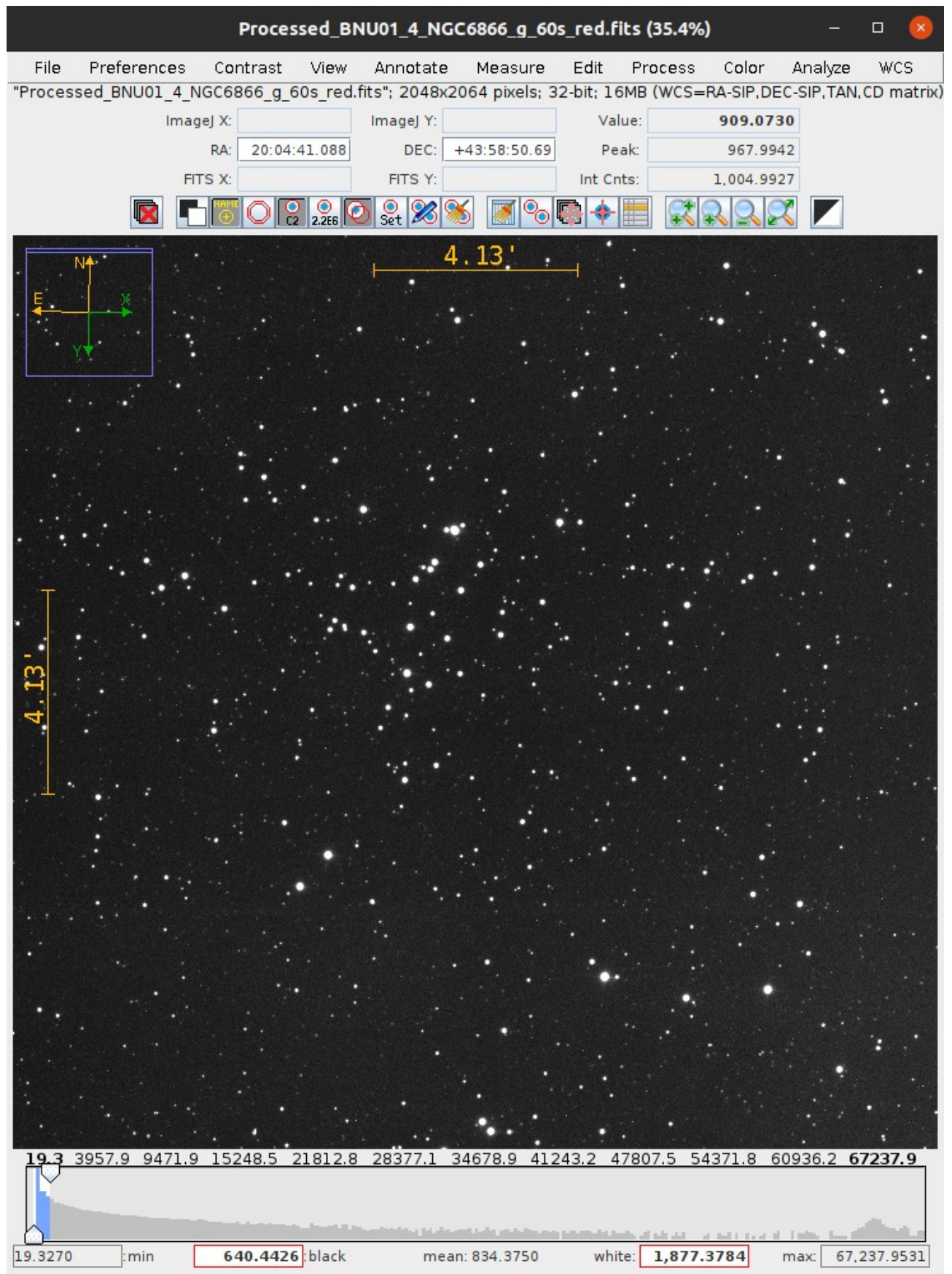
CEFCA, 2025

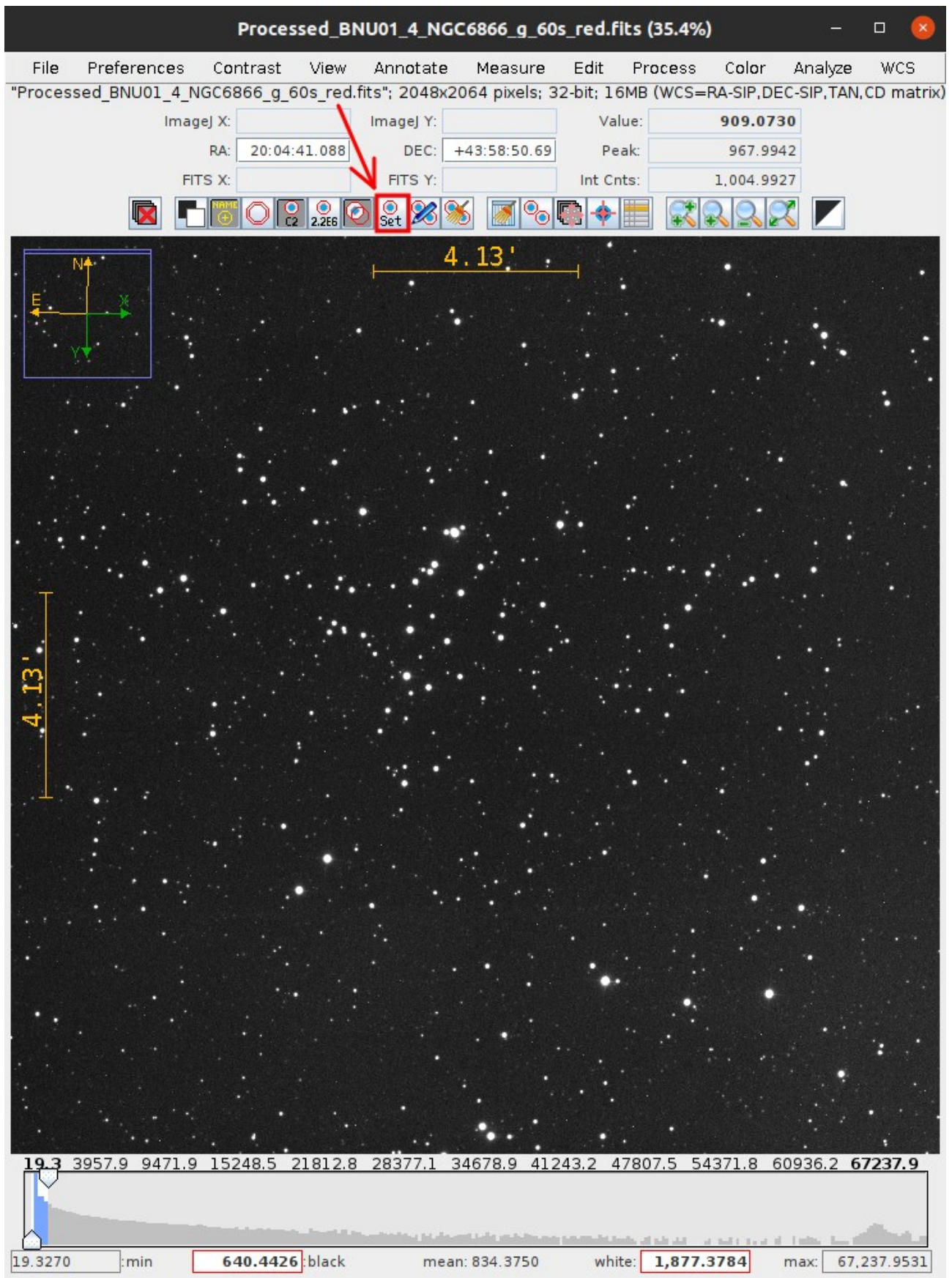**(1)** Launch AstroImageJ.
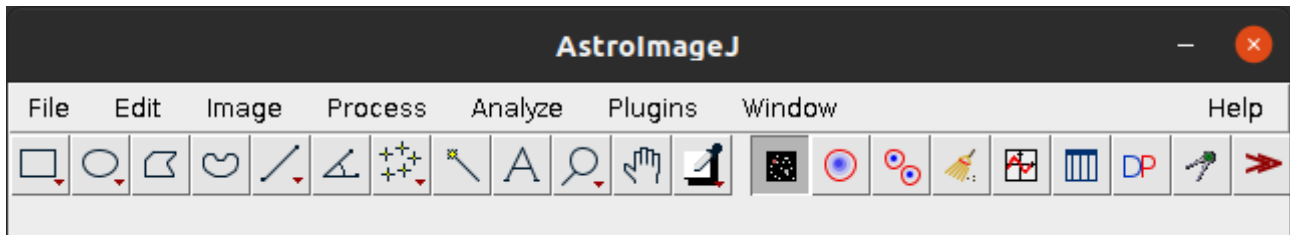
(2) Select "File" and then "Open" to open a **single** image.

(3) The image will open in a new window that looks like this:

(4) First, we need to set up some parameters. Click on the "**Set**" button identified on the image below:

(5a) A new window called "Aperture Photometry Settings" will open. Make sure that your setup is the same as the one shown in the image below. The important parameters are highlighted.

(5b) When ready, click on the "More Settings" button and you will see a new window. Make sure that your setup is the same!

➢ Keep in mind the option shown in orange, "Sky Annulus". When working with a variable keep it enabled. When working with a cluster, come back and disable it.

(6) Finally, we will plot the stellar seeing profile to read the information we need about the aperture radii and the FWHM.

- ➢ Put your cursor over a star in the image and press "**Alt**" + **left click**

- ➢ If the above does not work, place your cursor over a star, do a left click, and then select "Analyze" & "Plot seeing profile…" as shown in the image below:
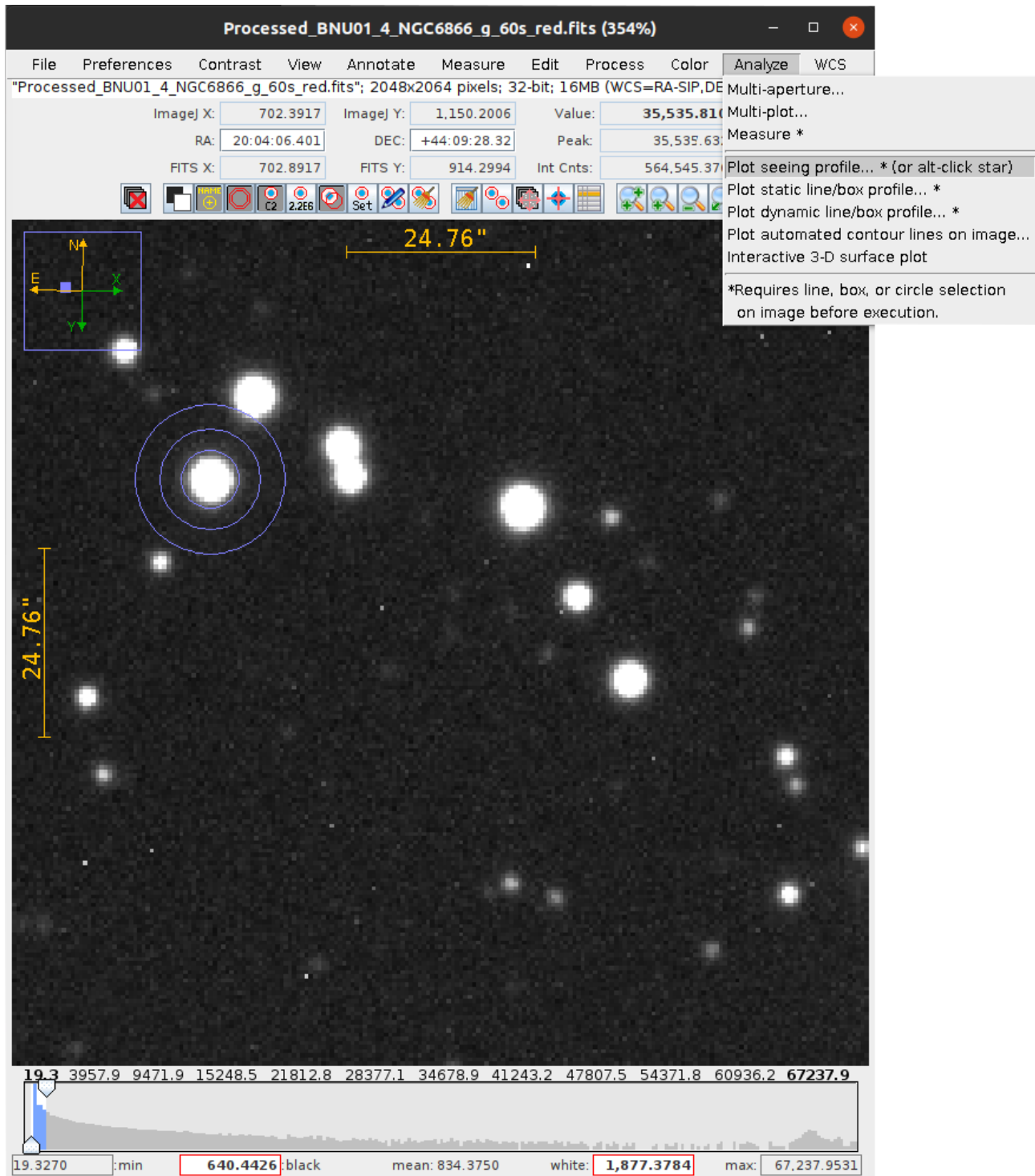
(7) Quick reminder of which numbers we need from the profile plot: