

NAME: _____

DATE: _____

Download the fits image from the course webpage onto your computer. Then answer the following questions.

1. Where, when and with what instrument was this image taken?
2. What was the exposure time? What was the local time of observation?
3. How many rows and columns are there in the image? How many pixels are there in the image?
4. What are the minimum, maximum and mean values of pixels?
5. What is the median value of pixels?
6. What pixels are in the overscan region?

7. What are the image background mean, median and standard deviation?

8. What is the value of the first read out pixel, and what is the value of the last read out pixel?

9. Are there any saturated pixels on this image? How do you know?

10. What are the most notable blemishes on this image? Where exactly are they?

11. What are the mean, median and standard deviation within the overscan region? Provide standard deviation to two decimal places.

12. Is the noise the same everywhere, throughout the overscan region?

13. What are the dark splotches at physical coordinates (325, 1792), (132, 1689), (168, 1598), etc?

14. Do a surface plot of the three-star region near (907, 1892). Which of the three stars is the brightest?