Astronomy Observing Project

Observing Project Summary

Over the duration of this semester I slowly worked away at my observing project. At first, I was a bit nervous that I wouldn't be able to distinguish one star from another. However, after slowly easing myself in and making some of the easier observations such as a full moon, I gained confidence and started looking forward to my observing nights.

September and October were the months where I was able to complete the bulk of my observations. I was able to observe the required amount of constellations, which consisted of Ursa Major, Ursa Minor, Lyra and Cassiopeia, as well as their brightest stars. During this time I was also able to observe three of the phases of the moon: full moon, waning gibbous, and waxing crescent. To fulfill the deep sky object requirement I was able to clearly see the Milky Way Galaxy and the NGC 869/884 double cluster. During September and October I also observed many stars, most of which met my naked eye star component, such as Dubhe, Polaris, Vega, Schedar, Capella, and Deneb. November was a very cloudy month, but I did observe three lunar basins, namely, Mare Imbrium, Mare Serenitatis, and Mare Nubium. I finished off my observing project on December 5th by observing the big beautiful sun!

I really enjoyed doing this project for many reasons including the fact that it was homework, but that I could use it as a break and an excuse to get outside. I enjoyed that I could observe with friends and family, and that I could use my knowledge from astronomy class and share it with my observing partners! I was thrilled that during my observing project I was able to explain the phenomenon of a shooting star to my observing partner—that it was actually space debris entering our atmosphere.

Overall, I found it a very interesting project and I will definitely continue to observe the night sky. I hope that someday soon I will have the opportunity to observe the beautiful wonders of our solar system through a telescope!

Observation Pages Colour Codes

Constellations and Their Brightest Stars:

- 1. Ursa Major- Dubhe & Merak
- 2. Ursa Minor-Polaris & Kochab
- 3. Lyra-Vega
- 4. Cassiopeia- Schedar

Phases of The Moon:

- 1. Full Moon
- 2. Waning Gibbous
- 3. Waxing Crescent

Lunar Basins or Impact Craters:

- 1. Mare Imbrium
- 2. Mare Serenitatis
- 3. Mare Nubium

Deep Sky Objects:

- 1. The Milky Way Galaxy
- 2. NGC 869/884 (Double Cluster)

Double or Multiple Star:

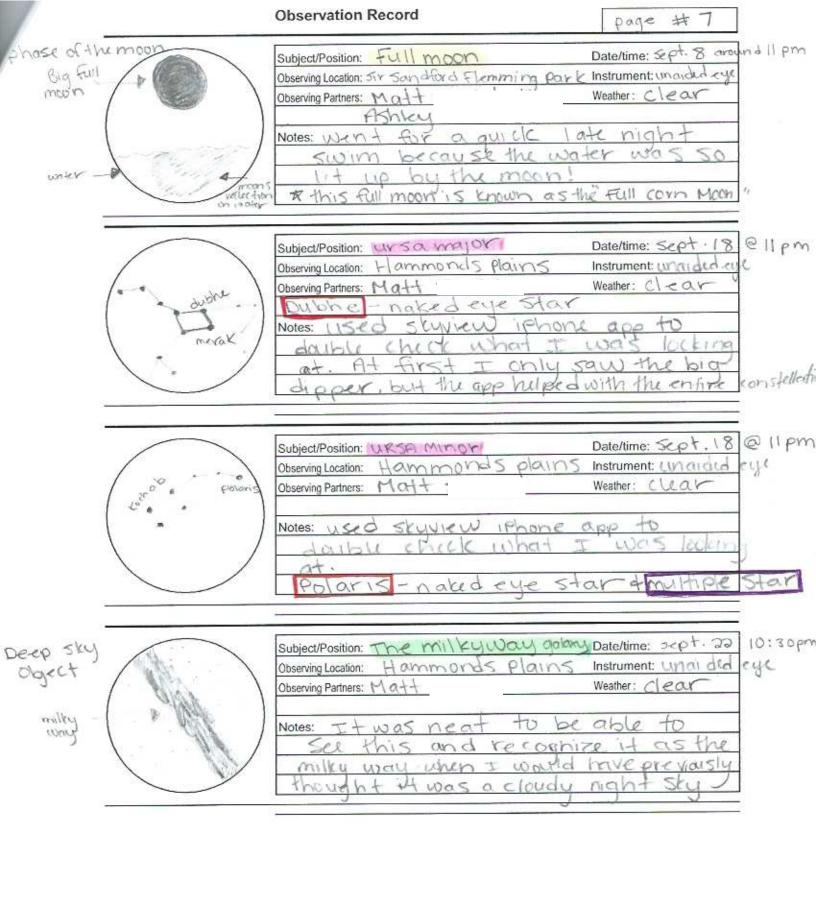
1. Polaris (Multiple Star)

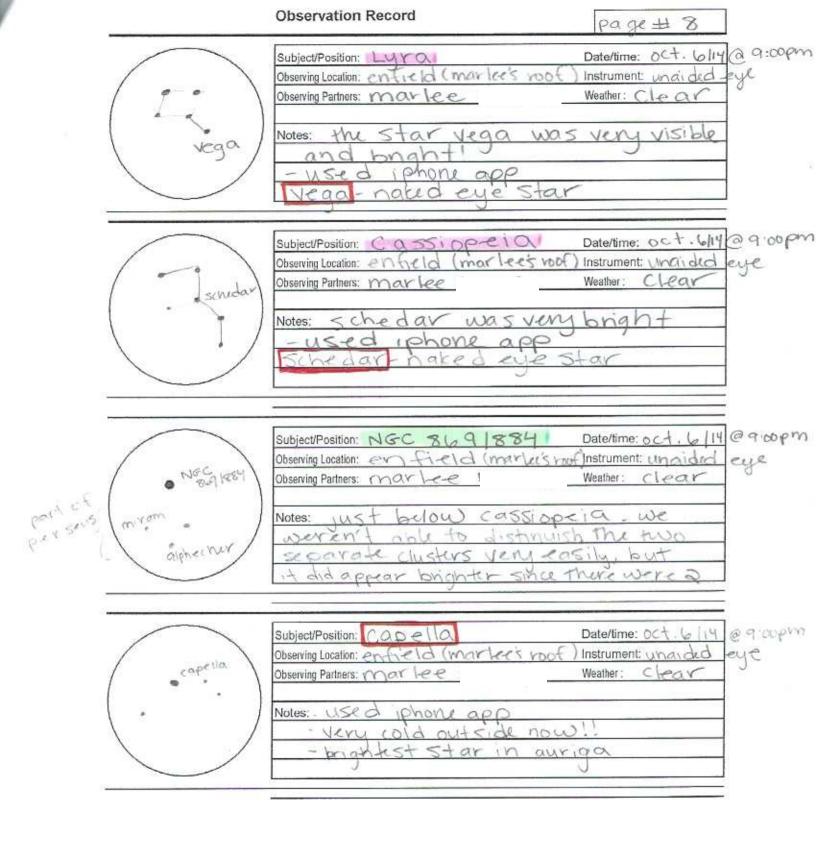
Naked Eye Stars:

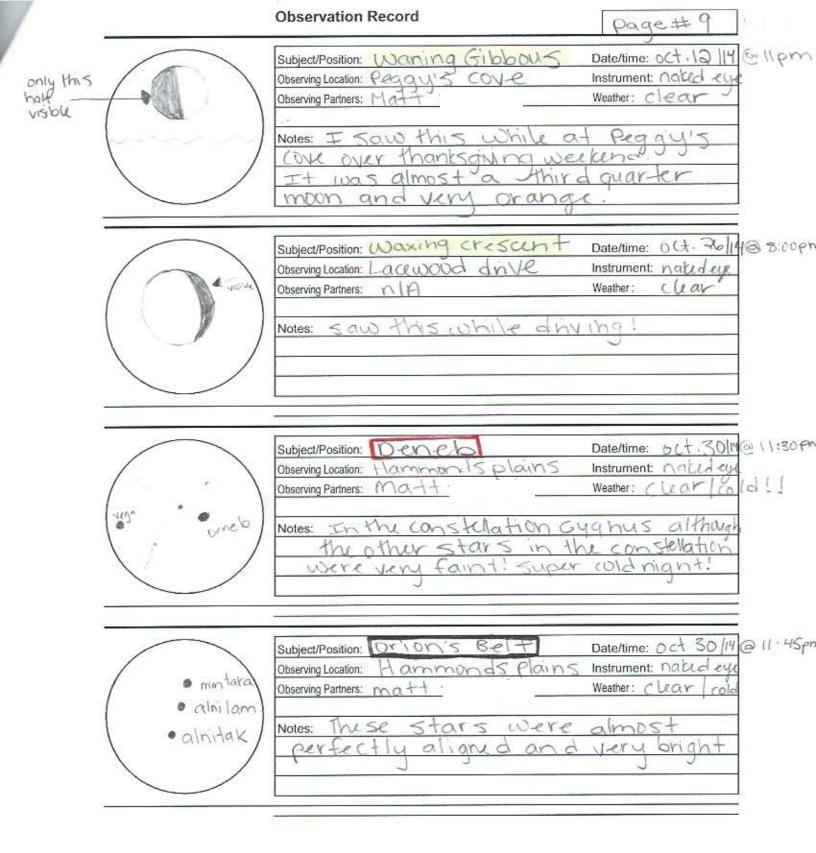
- 1. Capella
- 2. Deneb
- 3. Polaris
- 4. Vega
- 5. Dubhe
- Schedar

Extras:

- 1. "Shooting Star"
- 2. Orion's Belt







1	Observation Record	Page #10
interium)	Subject/Position: Marc Imbrium Observing Location: Clayton Park Observing Parlners: Honky Notes:	Date/time: nov.5, 6 6 30/ Instrument: unaided eye Weather: Clear
mar & solls	Subject/Position: Mare Sevenitates Observing Location: Clayton park Observing Partners: AShley Notes:	Date/time: hov,5 @ 6-31 Instrument: Unaided eyl Weather: Clear
mare	Subject/Position: Mare Nubrum Observing Location: Clayton park Observing Partners: Ashley Notes: When these 3 basins at they look like a face (ma	





