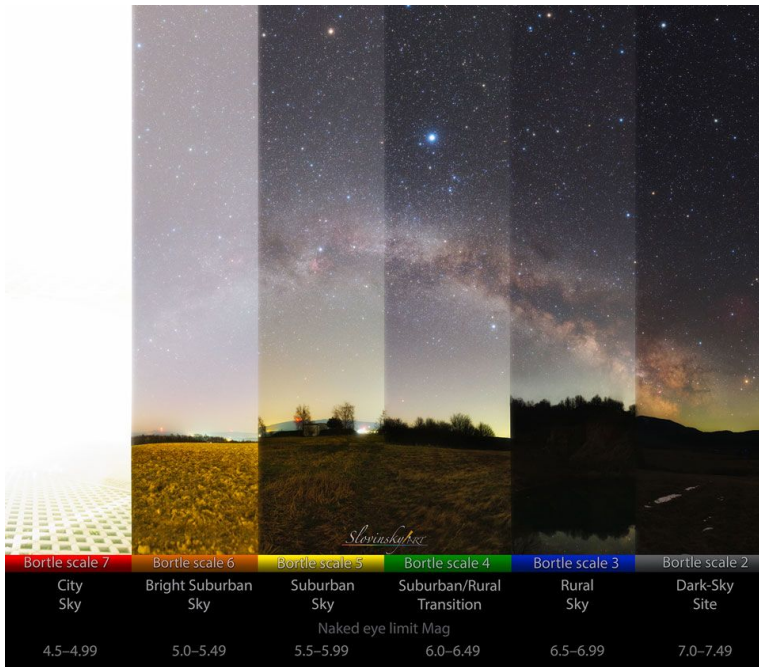


## Meeting Minutes 4/10/2020

- TIMESTEP
  - Tips and Resources for Scientific Coding : Workshop
  - Software development is becoming an integral part of a career in science, industry, and beyond. We will go over basic concepts like repositories and corresponding workflows, and learn how to integrate automated documentation in your code. We will also cover some basics of high-performance computing, learn about some of the National Super-Computing centers and look at example projects that are currently going on there. We'll go over some online resources that are helpful to learn about python coding, data science, and machine learning, and conclude with examples for coding related internships in science and industry.
  - Next Meeting: April 15th over Zoom with Dr. Tim Eifler! At 5pm
- What's Up Astro Club with Yancy!
  - Aldebaran is a red star in the constellation Taurus, known as Alpha Tauri
    - 65 ly, K5 III Red Giant (3900 K), 1.16 Msun, 439 Lsun, 44 Rsun, 520 day rotation period
    - Pioneer 10 passes in 2 Myr
    - Aldebaran b (Not confirmed) - possible planet orbiting the star
      - 1.46 AU,  $\geq 5.8$  MJ, T ~ 1500 K
    - Possible that it has a planet around it
  - Nucleus of the comet ATLAS might be breaking up
    - Not good news for hopes that the comet will get brighter, it will probably dim if the nucleus breaks up
    - Still in Camelopardalis
  - Nice alignment of the moon and several planets
  - Venus phase changing!
- Astronomy Question of the Week with Don!
  - Advice: Set an alarm to look up at the sky at night
  - True or False: Jupiter, Venus, and the Crescent Moon will form a smiley face this May - Sadly False, don't believe everything you see on Facebook!
    - Conjunctions can happen, but they are rare and not like how it was in the article
  - BepiColumbo is passing the Earth and the Moon today
    - Hopefully we will get some images of the Earth and Moon together
  - Looking out from underwater causes some cool stuff with light
  - Betelgeuse continues to mend - current theory is that the star burped out a blob of dust which obscured the southern hemisphere of the star
- APOD with Sai!
  - Picture of star trails from Germany



- Take many exposures over the night and combine them
- The Bortle scale, pictures of the Milky Way at different locations of the Earth can be very different because of light pollution



- A Flow of Time



- Full Moon of Spring



- Meet the Messiers with Sean!
  - Messier #10 or NGC 6254
  - Best viewed in June, can be seen with binoculars
  - A globular cluster
  - High population of blue stragglers
  - Center of Ophiuchus
- JPL “Tour” with Dr. Randii Wessen
  - Robotic deep space exploration
  - Studying long term climate
  - 2 billion dollar operating budget

