Week 2 Lab Journal

MONDAY 4/08/2019

Activity of the day via python

a) Season best to observe the object
    i) During Autumnal Equinox
        1) You can check in jSkyCalc
b) April 16th 2019 how many hours can you have at APO
    i) 8.1 hours (8.5 hours)
c) If you observe at 31st dec, will the moon interfere. What is the moon phase
    i) 21%
    ii) Moon phase about 2.0
    iii) You can also use eso.org
    https://www.eso.org/sci/observing/tools/calendar/observability.html
d) How many hours can you observe at dec 31
    i) ~4 hours

PROPOSAL

(May 1 - May 15) 2019
CTIO

WEDNESDAY 4/10/2019

a) Converting tsv to csv
    i) Just file type from *.tsv* to *.csv*
b) CATALOGS
    i) HEARSAC
    ii) SIMBAD
c) Separating strings to columns(refer to code)
d) Conversion between deg to hourangle
    i) We don't need to convert it directly, but instead create a code that can make a range and separate them for visible period, May 1 to May 15
    ii) 40.10804 deg - 53.8043 deg

FRIDAY 4/12/2019

a) Separating/ taking out the chunk that we needed from a table.
    i) Code = **catalog.query('(RA > 40.10804) & (RA < 53.8043)')**
    ii) Don't forget to make sure that your RA should be in hourangle
    iii) Deg to hour angle, divide by 15
b) Know that the catalog should be more be accordingly to your observatory
    i) Southern Hemisphere, if the object dec is above 60, they should not be observable.