Class Assignment 3

Name: _____________________________

Sign the honor code at the end

Electronic Catalogs, Atlases, Databases

READING: OA, Chapter 3

DUE: Monday, Jan. 28, 11:00 am

HELP: Friday, Jan. 25, 1:30 – 3:00 pm (or Friday morning TBA if you can’t make this time).

AUTHORIZED AIDE: You may talk together about these questions – in fact I would encourage this – but you must understand and write down your own answer. Do not copy from someone else or submit a “group” answer. Show your work where appropriate. See me with questions.

ASSIGNMENT: makes use of Simbad data base at http://simbad.u-strasbg.fr/simbad/

Note that some changes have been made in some of the features of Simbad over the years, so the access is exactly the same as listed in the text.

The answers should be written neatly on a separate sheet of paper (not in the small spaces below).

1. OA, Chapter 3, Q1. Also find the period of variation.
   - Go too the bottom of the retrieved Simbad page under External Archives, and click on the variable star catalog V*

2. OA 3-2. – use “Plot” then “Aladin previewer.” Note that those with “fits” format images will not be displayed, so only plot the other ones.

3. OA 3-3 (the ID of the star that is just to the West and a little South).
   - Click on the star to get basic info about it.

4. One of the objects that we have been observing for our VU research project is designated as IRAS 22272+5435, since it was observed with the IRAS satellite.
   Use Simbad to determine its variable star name and it name in the Henry Draper (HD) catalog.

NEXT MONDAY: Telescopes-I

READING: OA Ch 6 pp. 101-105, 108-110, 113-116 (remainder for following week)

Plus two miscellaneous topics that relate to the positions of a celestial object: (a) precession: OA p67-68 (2 paragraphs) and (b) proper motion: OA p72-73 (3 par).

EVENING: We will plan to go out to the Observatory and get instruction for the first observing exercise.