

Name: _____

Homework 2 – Ast 399 – Spring 2003
Due Fri February 14, 2003

1. On the attached sheet of paper is a partial list of variable stars. Use the resources we have discussed in class to fill out the rest of the table with respect to α , δ , magnitude, variable type and period. [6]
2. Which of these stars might we reasonably expect to observe in the early evenings in February? [5]
3. If you had only one night to observe, which object(s) might you target to get some science results from just one night of observation? [4]
4. Use the resources discussed in class to print a finder chart for as many of the stars above as possible. Please select a scale appropriate for observing naked eye or with a small telescope. [15]
5. Use the finders passed out in class to identify β Per. Go outside and locate β Per, and make some variable star observations (as many as possible). Record your data in the accompanying logsheet. [20]
6. δ Cep is a very good variable star for a beginner to observe. [6]
 - (a) What type of star is this?
 - (b) Is this star observable now?
7. What time do the following events occur on Sunday February 9, 2003 in Honolulu? [9]
 - (a) Sunset
 - (b) End of astronomical Twilight
 - (c) Moonrise / set, phase