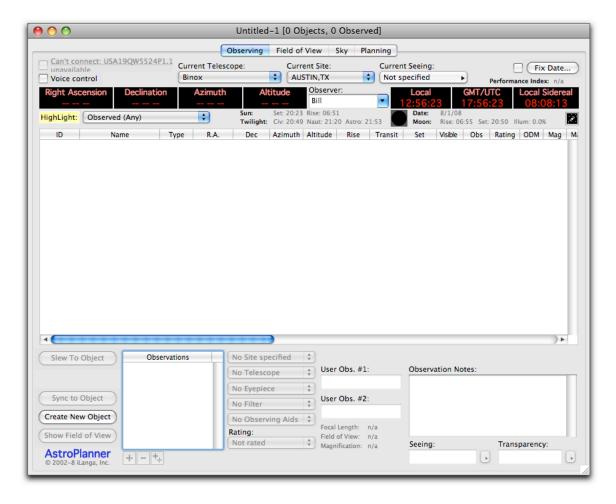
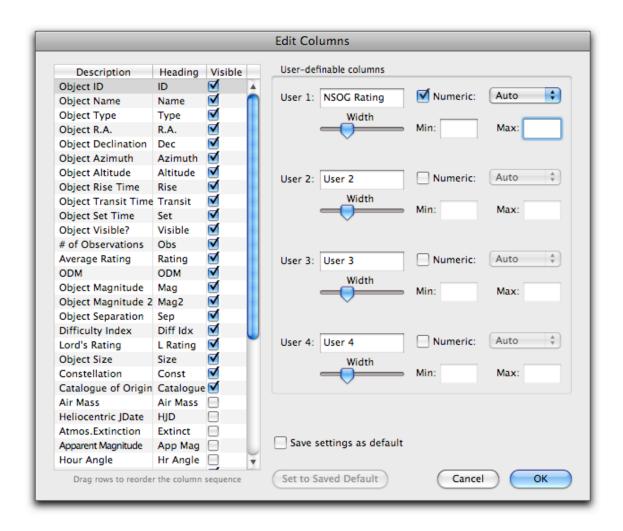
How to create NSOG (Night Sky Observer's Guide) user-contributed plans

For AstroPlanner V1.6

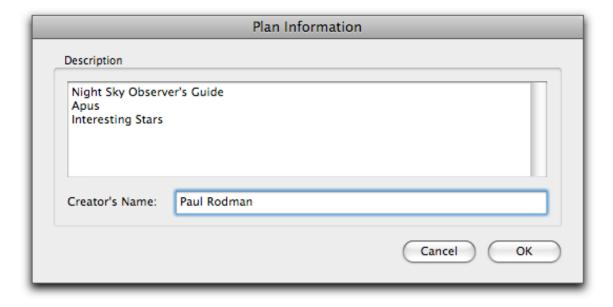
1. Create a new plan (File -> New)

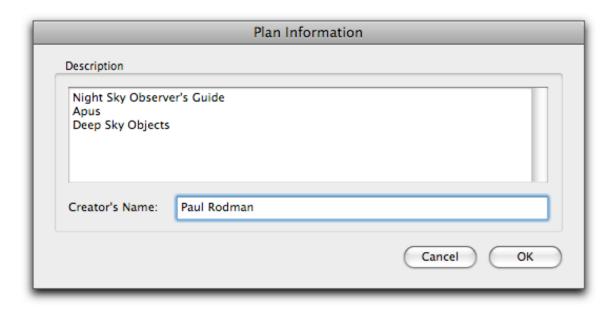


2. Use **Edit** -> **List Columns...** to change user field 1 to have the title "NSOG Rating", and to be numeric.



3. Use **File** -> **Get Info...** and change the title and creator to be one of the following (depending on whether you're doing Stars or Deep Sky objects):

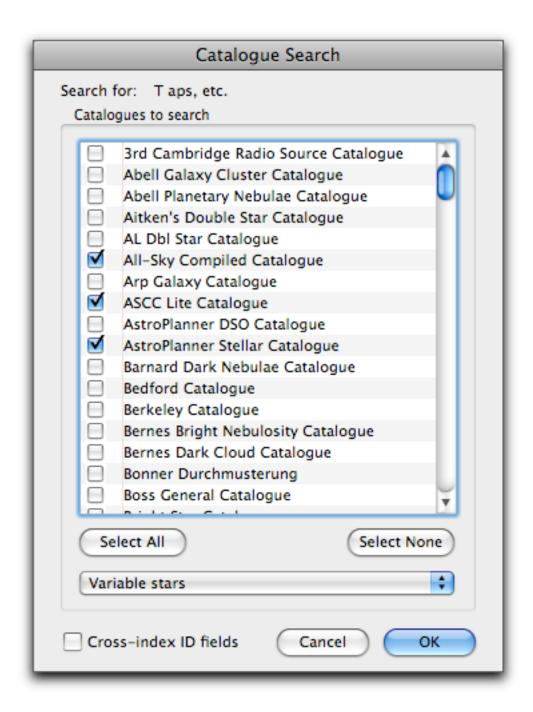




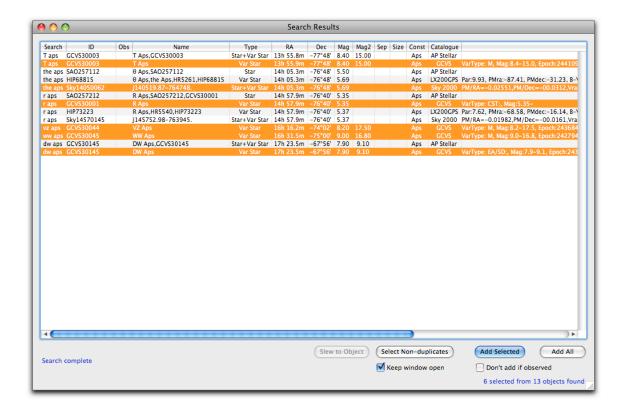
4. Change to the Planning tab. First we'll do the stars. For the constellation you're working on (in this document we're working on Apus, the first constellation in V3). Find the "Selected Variable Stars" table after the constellation map. Click the **Lookup ID...** button. Enter the variable star IDs (in the "Name" column in the table), and click **Lookup**. Note that the search is case-insensitive.

| Lookup Items | |
|---|-----------------------|
| Paste or type item/s, separated by new lines, tabs, and/or commas | |
| T aps the aps r aps vz aps ww aps dw aps | |
| Prefix: | Suffix: |
| Only on numeric items | Only on numeric items |
| Prefix and suffix are added to beginning and end of each item above | |
| Double Star IDs | Cancel Lookup |

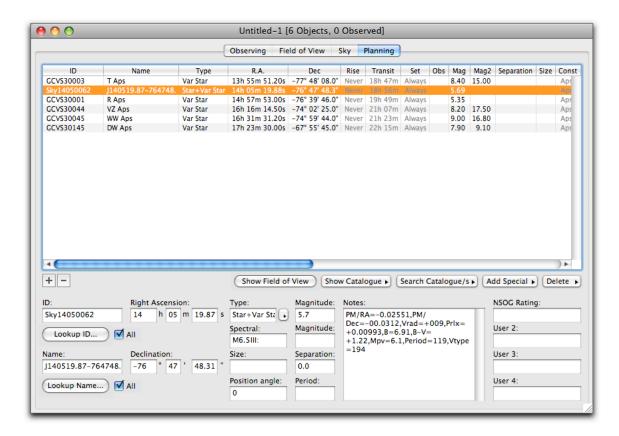
5. Since we're looking at variable stars, select the search to include variable stars only, and click \mathbf{OK} .



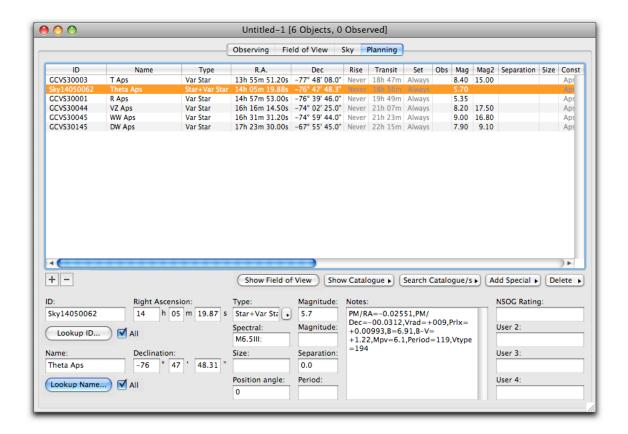
6. The results will probably have some duplicates. Select one line for each ID found, preferably from the GCVS, since that's the "definitive" catalogue for variable stars, and click the **Add Selected** button to add the objects to the plan.



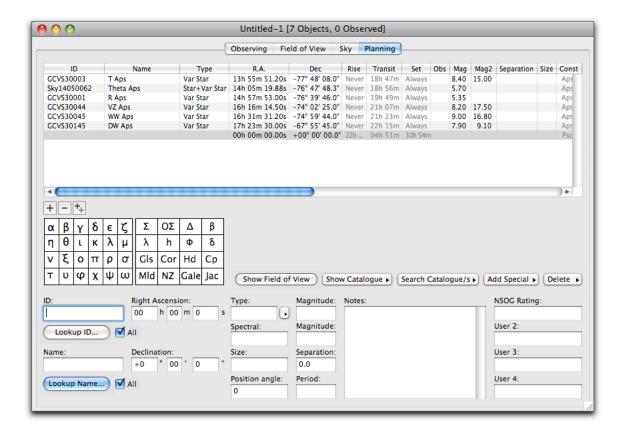
Note that you might not find certain objects in your search. We'll discuss how to locate these objects later in this discussion. Check that all the objects in the table are now in the plan. Drag the rows to re-order where necessary.



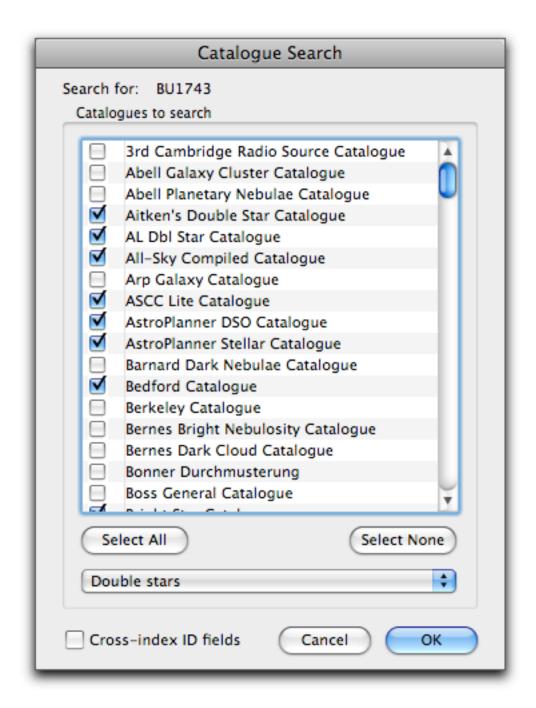
Note also that Theta Aps cannot be identified as such. In this case, edit the Name field to make things clearer.



7. Now do the same for the "Selected Double Star" table. It might be convenient to do it in stages, since there are a lot of stars in the double star table (typically). You might need to convert the "Name" in the book to the equivalent DS ID to look up in AstroPlanner. E.g. the first item in the table is β 1743. To figure this out, we'll enter it manually. Click the "+" button under the list of objects:

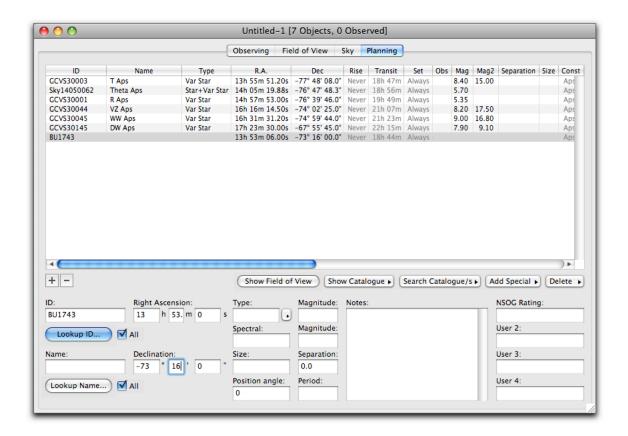


A new line is added, the ID field is selected and the "special character" palette is displayed. The right-hand block contains common double star ID prefixes. The one we want is the top right (β). Click it and the ASCII prefix (BU) is added to the ID field. Enter the number (1743), and click **Lookup ID...**

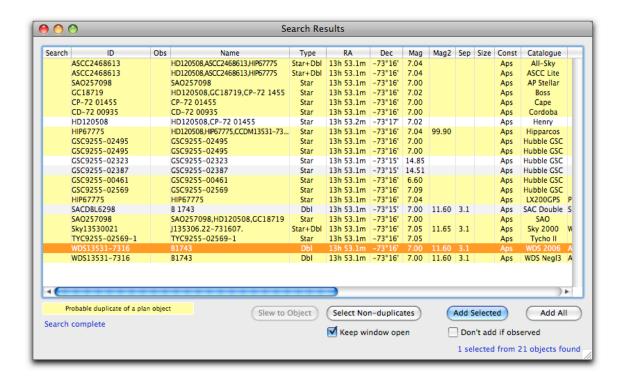


Select "Double Stars" to search only catalogues containing those. Click **OK**.

The search indicates that no object was found. Drat! To find this object in the catalogues will require another approach. From the book table enter the RA and Dec coordinates manually:



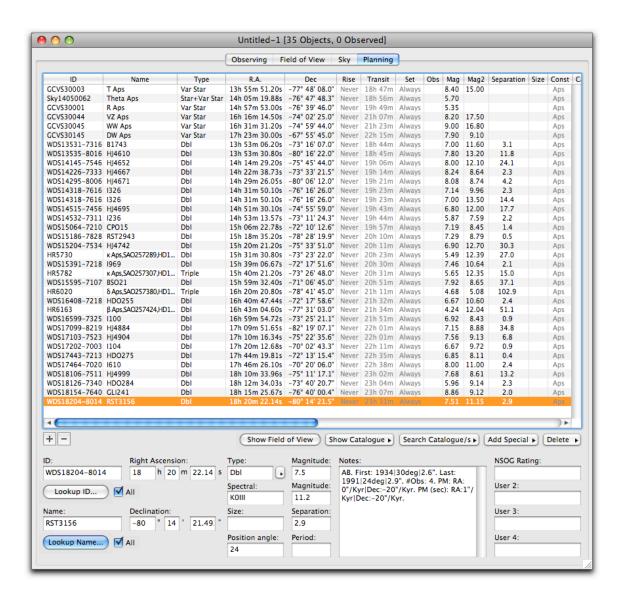
Now use **Object** -> **Find Synonyms**. All close-by objects to the RA/Dec position are found. Included in the results is an object from WDS 2006 (a definitive double-star catalogue). This has the ID of B1743. This is undoubtedly the object we're looking for. I consider this a bug in the book!



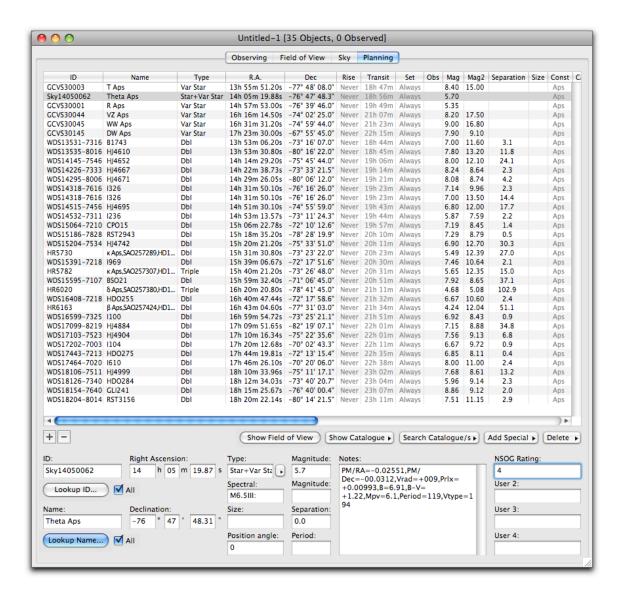
Select the entry and click Add Selected to add the object to the plan.

Note: A sanity check for all objects is to check the Catalogue column in the plan and make sure all objects are in the constellation you're working on.

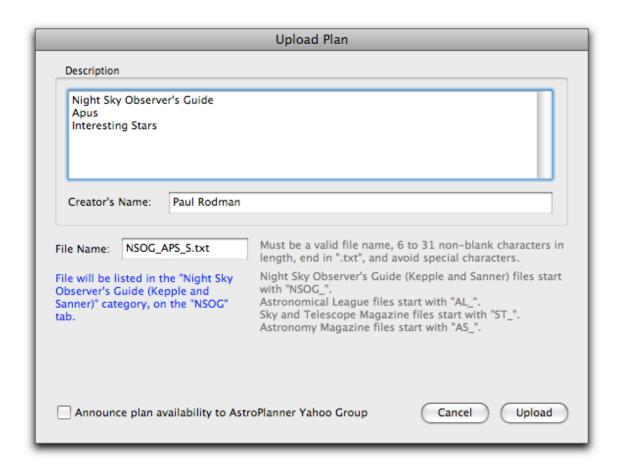
Continue adding objects until all objects have been added.



8. The text in the book has some of the stars listed as "Interesting Stars". Each entry has a "star rating". Select those stars and put the number of stars in the rating into the NSOG Rating user field for the associated plan object. E.g. for Theta Aps, the rating is "****":



- 9. Finally, save the plan document with the name NSOG_xxx_S.apd, where xxx is the uppercase three-character abbreviation for the constellation. In this case, APS (Apus).
- 10. Upload the plan to the user-contributed database, using File -> User-Contributed Plans -> Upload...



The fields should all be correct if you followed the previous instructions.

- 11. Repeat the above for a new plan for Deep Sky objects. Differences are:
- a. There is no table. Work from the list of objects in the "Deep-Sky Objects" section of the chapter in the book.
- b. All objects have an NSOG Rating.
- c. The file name will be NSOG xxx D.apd