

# DOWNLOAD PDF THE PLANETARIUM, AND ASTRONOMICAL CALCULATOR .

## Chapter 1 : The planetarium, and astronomical calculator in SearchWorks catalog

*The Planetarium and Astronomical Calculator Containing the Distances, Diameters, Periodical and Diurnal Revolutions of All the Planets in the Solar System, With the Diameters of Their Satellites, Their Distances From, and the Periods of Their Revolutions Around Their Respective Primaries by Tobias Ostrander.*

This type of software is used to map the night sky from any location on the Earth. In most cases, the software below can print out star charts for a night of viewing and will have extensive databases with at least the most popular night sky objects. The SkyX by Software Bisque is probably the most popular planetarium software available. I also use version 6 of this software. The benefit of using TheSky is their extensive database, ability to remotely control a computerized telescope, and work seamlessly with their other popular product, CCDSoft. Their website also has a Hot Fix section for up to date software updates you will have to register. The previous version, The Sky 6 Professional is still a well respected program that does run on 64bit operating systems but is a Windows only program. For the diehard astronomer, you can download an extended version of the SAO catalog as well. A free, open-source software called Stellarium is probably a good place to start. Another free planetarium software is Celestia. It runs on Windows, Linux and Mac. This software not only shows you the sky from Earth, but also allows you to "fly" to other locations and view the sky from there. Google Earth is no longer limited to great satellite images of Earth, they have created color images of the space as well. They include Hubble images in places where they belong, and a cool feature is that you can switch the view based on where you live. Microsoft Research has put together an educational program that is nothing short of a breakthrough. The World Wide Telescope allows the user access to just about every image taken from just about every space probe there is. Better still, the user can change the view from radio through to x-ray visible included of course. Keeping with the freeware theme, the third free bit of software is an up-and-coming simple yet capable sky charting program called Asynx Planetarium. It also provides telescope control. Updates for this software are available at their website, but newer versions allow updates through an application installed with the program. While it does not have the pizzazz associated with the "modern" planetariums, it does have what I consider one of the best presentations of nebula. Guide updates are also available on the website. A specialized planetarium software called AstroMB is also available. I have no experience with this software, but it boasts a pretty impressive set of features - available for viewing at their website. SkyMap is another software title I am not familiar with, but it does seem to have a faithful following. I used it many years ago and found it capable although I have no idea how the newer versions are compared to what is currently available. Sky Tools by CapellaSoft is a bit different from other planetarium software as it has an integrated notepad to store observing notes during observation. While I have no personal experience with this software, this also seems to have a faithful following. Voyager 4 by Carina Software - a Windows and OS X platform planetarium software, this provides the standard features expected in virtual sky and telescope control. Supports Windows, Mac and Linux and has a few more catalog add-ons available. CyberSky 5 is a run of the mill planetarium program. It offers the standard features in that the night sky can be viewed at any date in time. While not the prettiest program out there, this serves two main purposes: Most new programs use OpenGL for that real sky look but comes at the expense of computer processor usage, graphics usage and memory usage. I tested this program and found it does what it is supposed to do. It is Windows only program but will run on XP, Vista, and 7 in both 32 bit and 64 bit modes. These programs are not full featured planetariums, but specialize in specific objects. DeepSky - I had a chance to use this software and it does a lot. While not as smooth or cohesive as TheSky, it does do several things well. With a bit of a learning curve, one gets a list of available targets for the evening so a plan can be made. An image of the object is available so you have an idea what the target is; so when ready, you can view its location on their built-in chart, send the target info to your goto system and enjoy. From the, note of what you see can also be performed. It keeps a detailed log, and you can share online. Be sure to give it a go! It has imbedded maps, listings of major Lunar features, and

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Lunar time tables for anything you want to know. Heavenscape software has a nice program called Satellite Tracker. This program allows full control of a Meade or Celestron computer controlled telescope to track the orbiting satellites - like the International Space Station and various communication satellites. Halley - Electronic Catalog of Comets. This is a Windows program that maintains a current list of by database. It includes a fast search and export to ECS format. It provides accurate UT as well as Sun and Moon rise and set time and much more. The program includes the current sun, moon, eclipses and ephemerides for all the planets, minor planets and comets. DeepSky - This program is a large and useful program. A quick setup to tell the program where you live will allow it to list available DeepSky objects in view for the evening. There is also an observers log and an optional add-on for telescope control. Click on an object of interest and you are presented with a DSS image. You can view a Moon map and create custom star charts. This will be the longest list as there are many of these types of programs available. I will keep the descriptions short for this list.

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*The planetarium and astronomical calculator. by Ostrander, Tobias. Publication date Topics Astronomy. Publisher Lyons, [N.Y.]: Printed at the office of the.*

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