

Quick Guide to Using *Stellarium*

Installing *Stellarium* on Your Own Computer

- Visit: <http://www.stellarium.org>
- Click on the large button that corresponds to your platform (Mac OS X, Windows, or Linux) — the *Stellarium* installation package will download to your computer. It's free!
- There is also a button to download a User's Manual (in PDF form) — however, it is somewhat technical and not very useful for the casual *Stellarium* user

Setting **Location** on Earth

1. click “wrench” symbol in control bar (lower left of screen), or use quick-key “1” (the number “one”) to open configuration panel
 2. click “Location” tab (along top of configuration panel)
 3. *zoom in/zoom out* on the Earth map using mouse scroll knob OR page up/down keys (it always scrolls toward your mouse pointer), then click on desired location on Earth map
- or: 3. set location manually using Longitude & Latitude settings

Changing **Date & Time**

- Manually:*
1. click on “wrench” symbol in control bar (lower left of screen)
 2. click on “Date/Time” tab (along top of settings window)
 3. set desired date/time manually

- Quick-Keys:*
- “=” steps forward by 24 hours
 - “-“ steps backward by 24 hours
 - “J” steps forward by one week
 - “[“ steps backward by one week

important: • “8” returns to *now*

Speeding up Time

- Quick-Keys:*
- “L” runs time 10× faster forward (or to slow down reverse time)
 - “J” runs time 10× faster in reverse (or to slow down fast-forward time)
 - ...repeating these keys makes time run 10× faster (or slower) each time! Try it!
 - “K” returns time to normal speed
 - “6” *pauses* time, then “6” again returns to previous rate (i.e., toggles pause on/off)
 - “7” *stops* time completely (i.e., sets rate to zero)

Buttons in the *lower-right corner* of your screen have the exact same effects as the “J”, “K”, “L”, and “8” quick-keys described above.

Sky Settings

Try turning on/off the following buttons to see what they do (all of these control bar buttons also have quick-keys):

- “C” *constellation stick-figures*
- “V” *constellation names*
- “R” *constellation artwork*
- “Z” *alt-az grid* (altitude & azimuth lines)
- “E” *equatorial grid* (right ascension & declination lines)
- “G” *ground*
- “Q” *cardinal (compass) points* along your horizon
- “A” *atmosphere* (including blue sky when Sun is “up”)

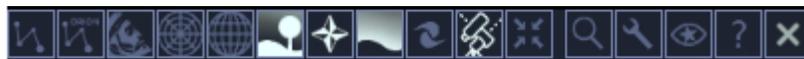


- “N” *names of faint objects* (nebulae, star clusters, galaxies, etc.)
- Note:* the “fog” along your horizon must be turned on/off with the “F” key on the keyboard (OR by using the “wrench” button settings), but it does *not* have a control bar button.

Centering, Tracking, & Zooming on an Object



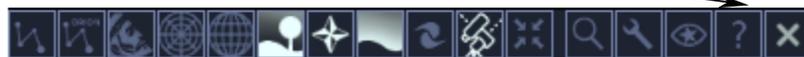
- Try **finding** an object: click the “magnifying glass” button, or use the quick-key “**CTRL+F**”. Practice doing this with the Moon, or Jupiter, or Sirius, or any other astronomical name you can think of.
- **Center** on an object: after you have already “found” or “selected” it (by clicking on it), click on the “four arrows” button, or use the quick-key “**SPACE**”.
- To **track** your view on the object as time proceeds, use the quick-key “**T**”. (Or else, turn on *equatorial mount* — see below.)
- Try **zooming in/out** using the scroll knob on your mouse, or the quick-keys “**PAGE-UP**”/“**PAGE-DOWN**”. Zooming in extremely close on an object summons up a nice image of that object. For major planets, their moons and surfaces are shown in their current positions!



- Toggle from *alt-az mount* (this button “off”) to *equatorial mount* (this button “on”), or use the quick-key “**ENTER**”. Zoom out a bit, then speed up time a few “clicks” to see the difference between the two mountings. Both of these modes are useful for different things:
 - use *alt-az mount* to keep the *ground stationary* — use when watching apparent path of stars as they rise, set, & move through your local sky
 - use *equatorial mount* to keep the *sky and stars stationary* — use when *tracking* a particular star or planet, then speed up time to watch motion of planets, moons, or other solar-system objects

Miscellaneous Quick-Keys

Many commands do NOT have buttons on the control bar, so they are accessible only via quick-keys. For a complete list, click on the *help* (question mark) button, or use the quick-key “**H**”. Try them one at a time to explore what they do.



Here are some of the most useful quick-keys (most do NOT have control bar buttons):

- “**1**” (one) *configuration panel* open/close (same as “wrench” button)
- “**F**” *horizon fog*
- “**B**” *constellation borders*
- “**,**” (comma) 3-way toggle: turns on *ecliptic plane* (red); turns on *planet trace lines* (yellow); turns both off
- “**P**” 3-way toggle: turns on *planet names*; turns on *planet orbits* (red); turns both off

...and just for fun:

- “**9**” changes *meteor shower* rate

Happy stargazing!