Task 1:Provide a summary of the main concepts that went through about solar radiation (formulas are not needed)

Solar radiation

Solar radiation is the energy that the sun travels outward. The sun radiates electromagnetic waves mainly to the earth and acts on the earth. It is the main source of light and heat on the earth. The energy of solar radiation is closest to that of blackbody radiation, but it is mostly weakened after it acts on Earth.

The Solar Radiation Density

The Solar Radiation Density is calculated by years. We can measure it per unit area. The average of these are 1367W/m²

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Dispersion and Absorption

Similar to thermal radiation, solar radiation has absorption and reflection phenomena. Before reaching the earth's surface, it will encounter various kinds of reflections in the space. When entering the earth, it will absorb some energy in the atmosphere and the atmosphere. When passed to the ground, only some of the energy is left. Absorption are related to oxygen, carbon dioxide and so on. And dispersion can be also related to the wave of them.

Task 1:Provide a summary of the main concepts that went through about solar radiation (formulas are not needed)

There are 4 elements that may affect solar radiation:

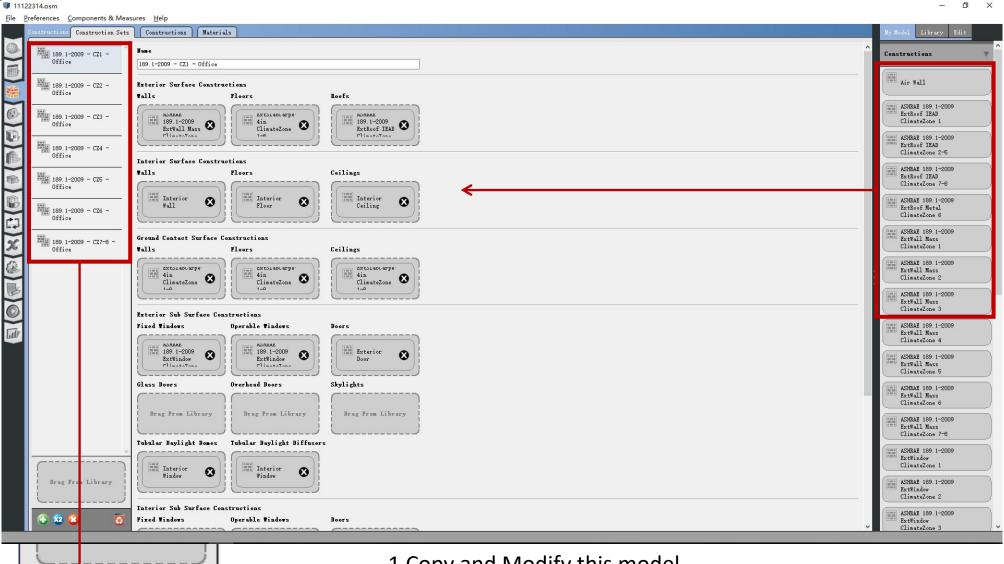
- 1. Latitude position It is related to the solar elevation angle. The larger the solar elevation angle, the larger the radiation.
- 2. Weather conditions Clouds have a certain reflection and absorption effect on solar radiation, and the more clouds, the less radiation.
- 3, altitude the higher the altitude, the greater the radiation
- 4, the length of sunshine the longer the sunshine time, the greater the solar radiation

Task 2: create a pdf file with screenshots of all of the steps we went through in the second lesson on openStudio and explain briefly the reason behind the use of each step (in your own

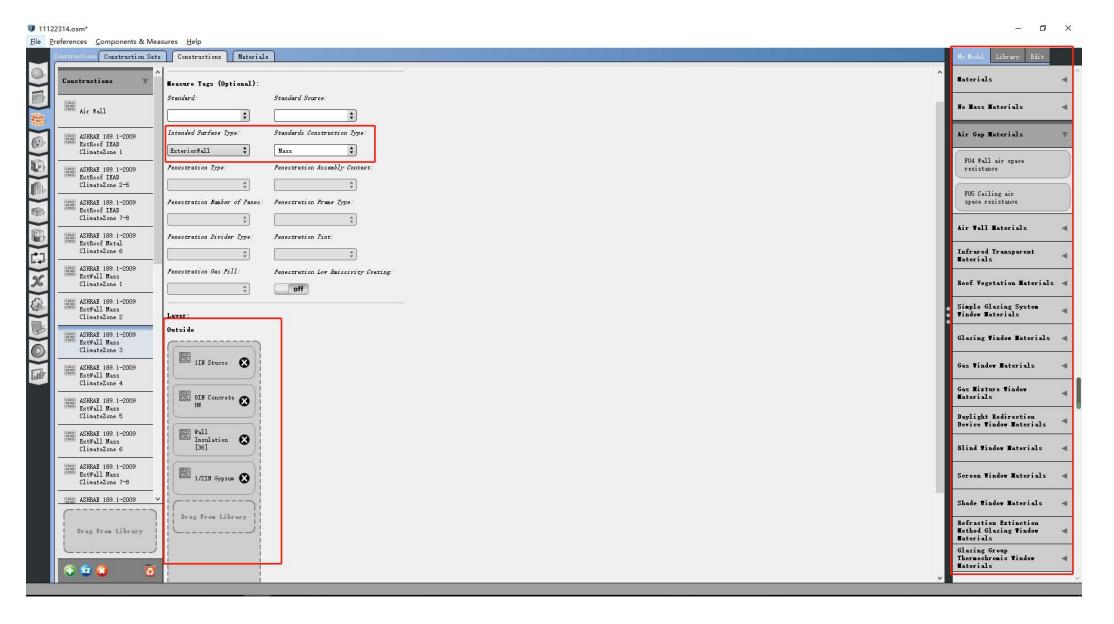
words!)

X2 X

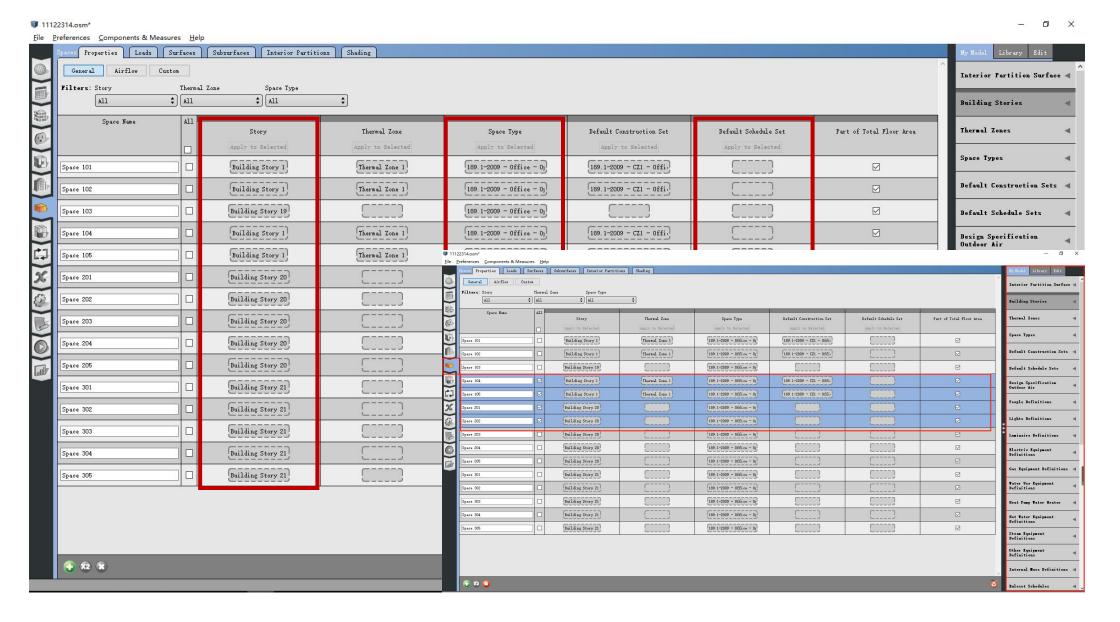
Copy selected object



1 Copy and Modify this model

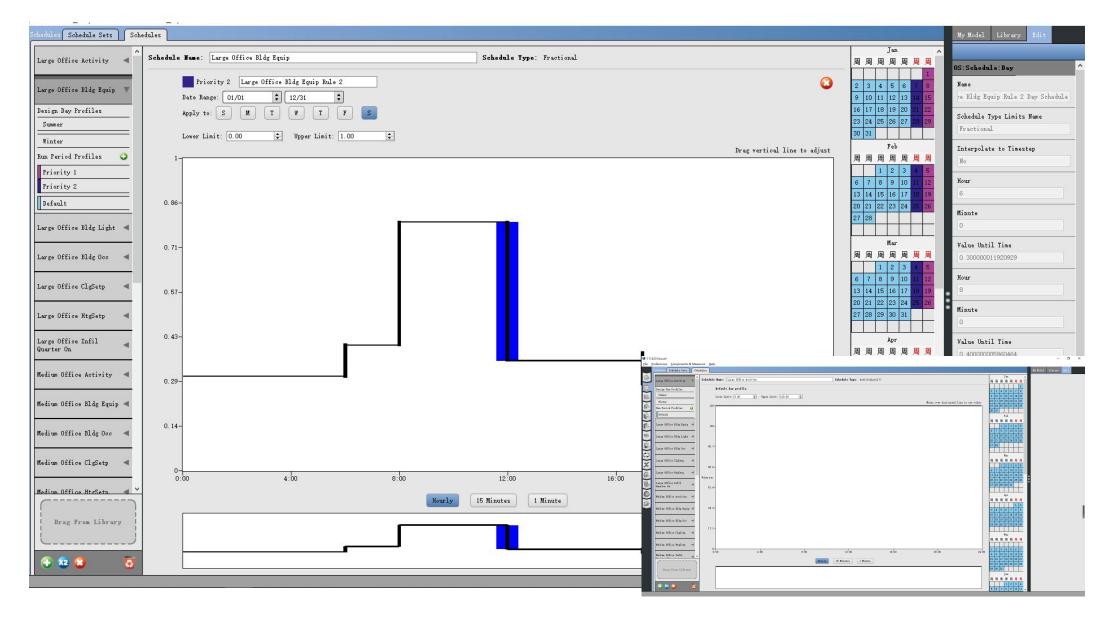


2 Change different type of construction



3 Spaces to change these 3 model, use different kind of environment to process our evaluation.

And also there are another way to change schedule here.



4 Another way to change schedule. Change the line to different time.



5 Space type to change different environment