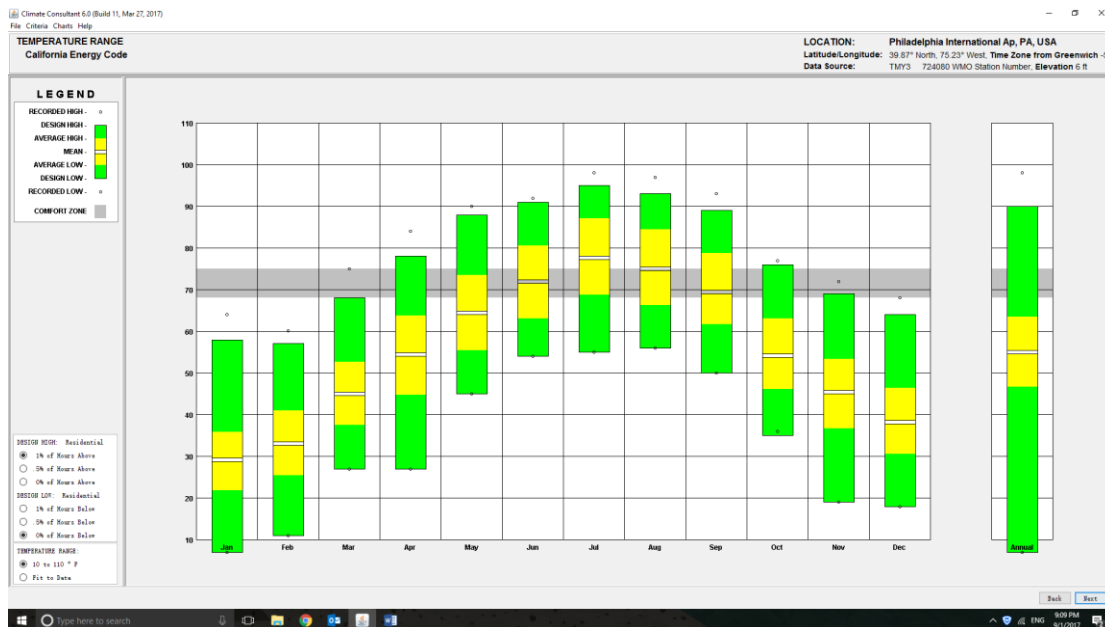
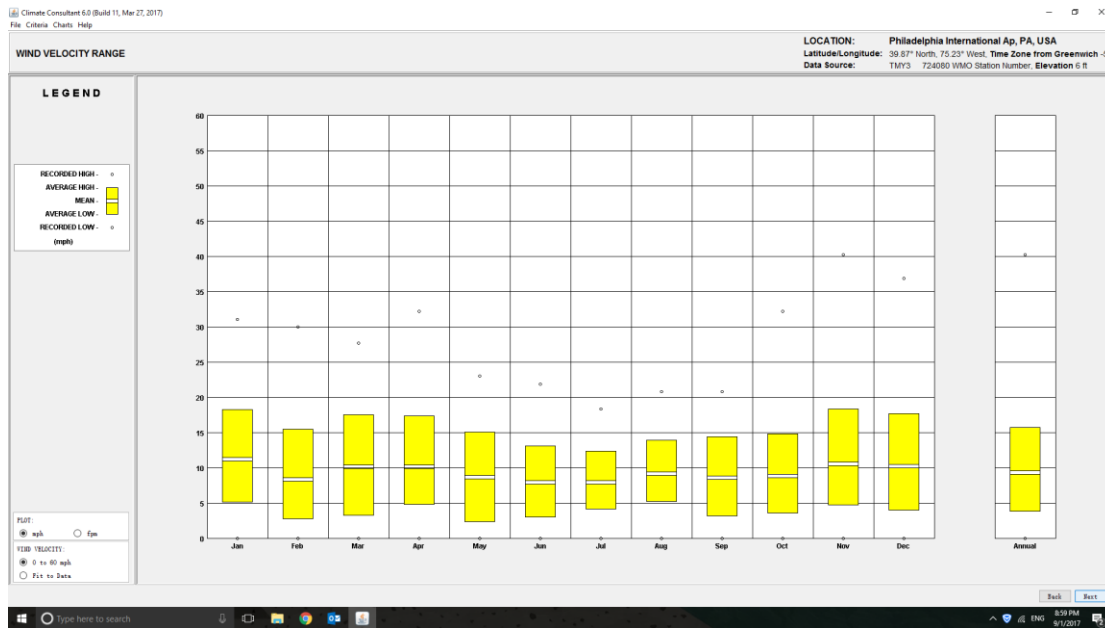


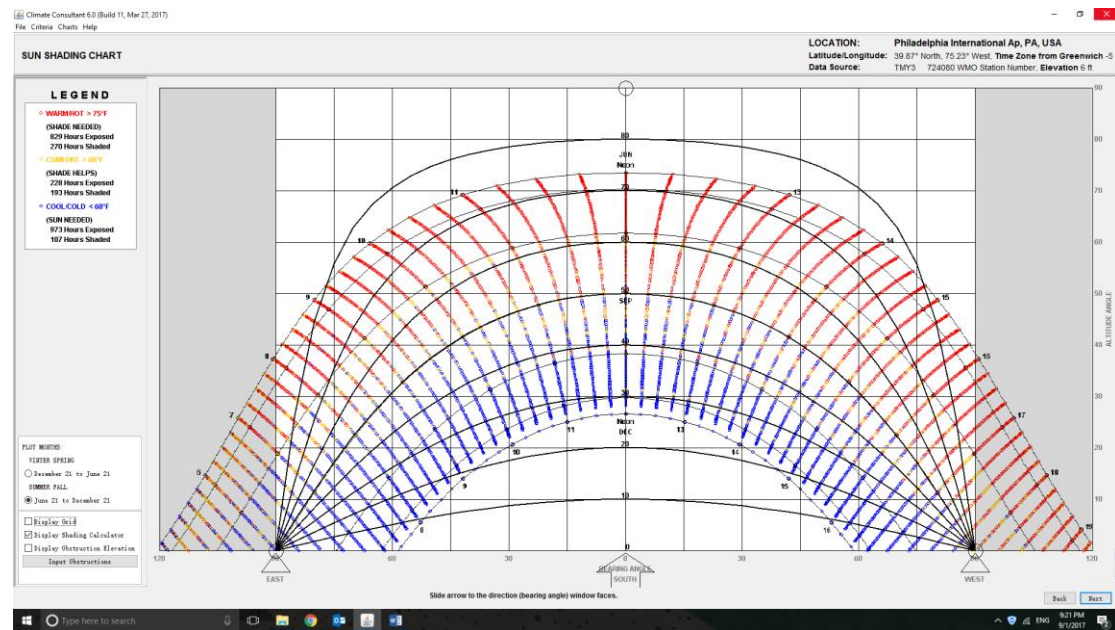
Strategy 1.

Ting Su- ARCH 633 ASSIGNMENT 1



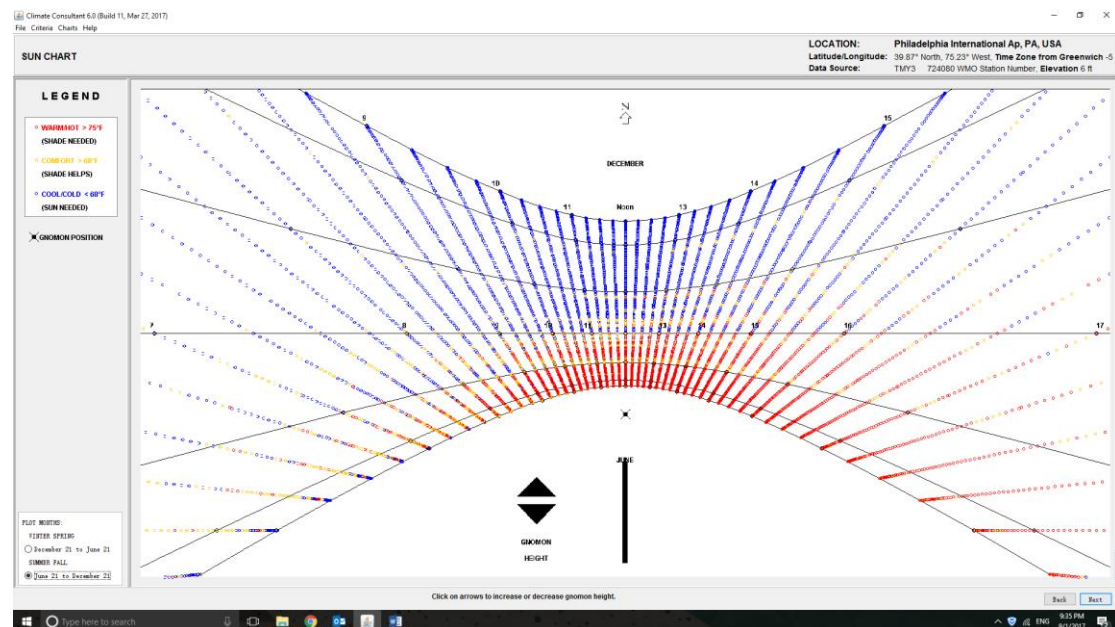
According to wind velocity range data in Climate Consultant, the wind speed is relatively moderate during summer time (from May to Oct). Also during this period of time, the average temperature of Philadelphia is around comfort zone (from the temperature range chart in Climate Consultant). Thus, it's feasible to encourage people to open window to have more natural ventilation. Nature wind not only bring fresh air to people but also can reduce economic cost and energy assumption during summer time.

Strategy 2.



During summer time, buildings are under strong sunlight exposure. The strong sunlight increase interior temperature and may cause lot of energy to cool the space. Thus, during this time of a year, the windows should have some shading devices, such as curtain and louvers.

Strategy 3.



According to this sun chart, the south part of buildings gain more sun heat while north part of buildings relatively gain less sun heat. Thus, buildings should have openings towards south to have more solar energy to warm up the space. This also help to reduce economic cost and energy consumption during cold time.