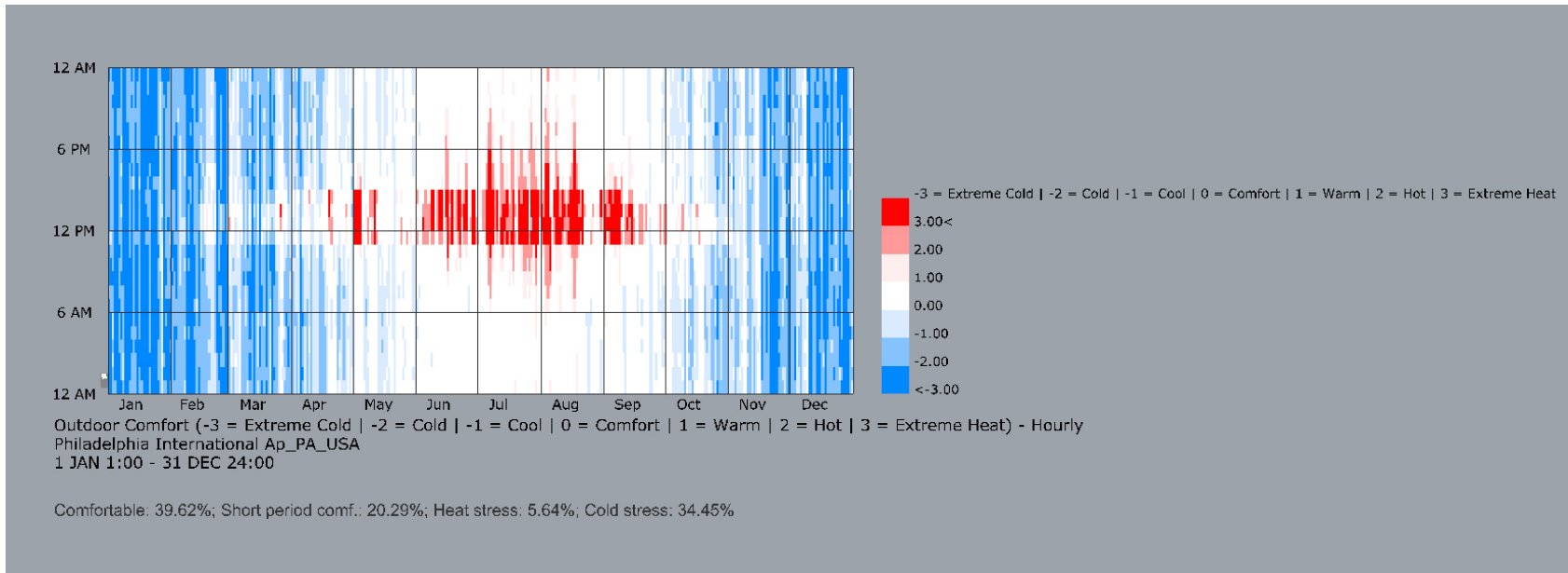


1. Pick a location in your measurement field.



Stairs in Skirkanich Hall's courtyard

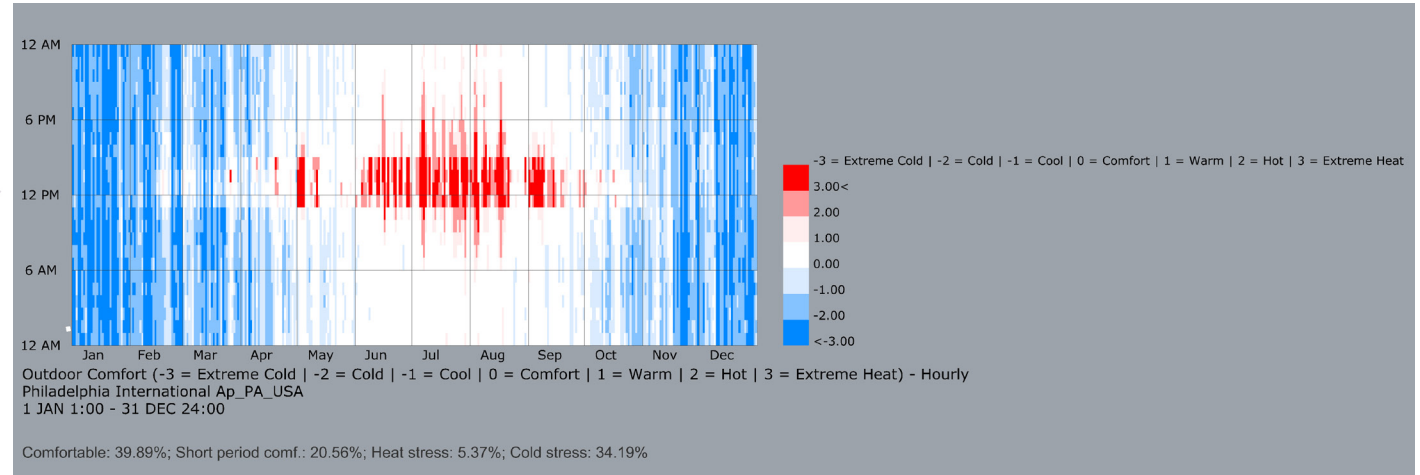
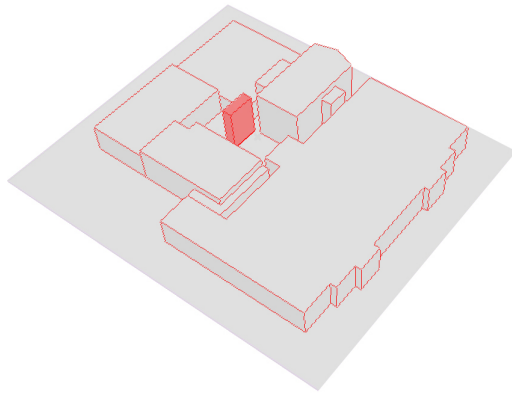
2. Calculate percentage of comfortable hours during the year.



Percentage of Comfortable hours: 39.62%; Short period comf.: 20.29%; Heat stress: 5.64%; Cold stress: 34.45%

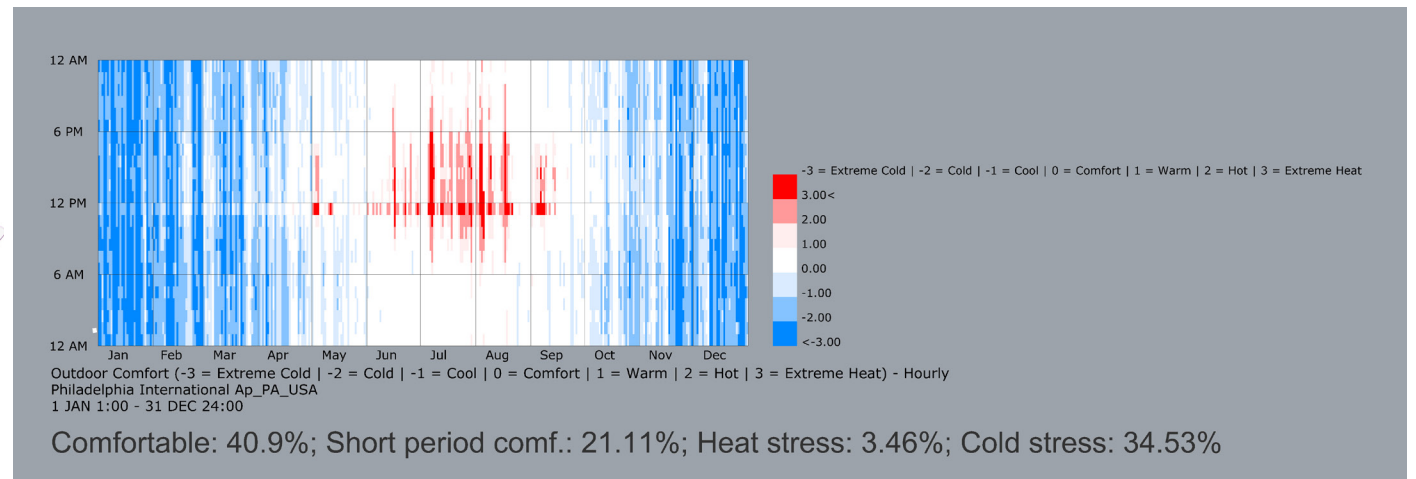
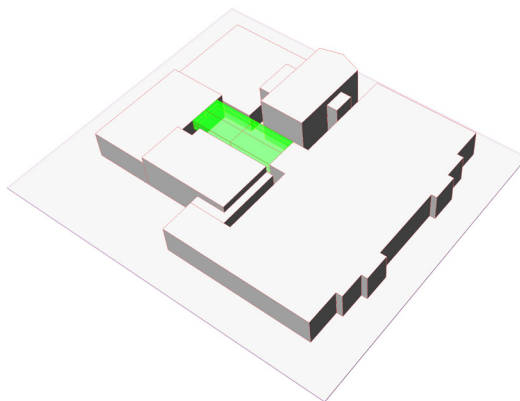
3. Test 3 different design ideas and try to maximize the annaly outdoor comfort. Document your simulation for each case.

Ex 1: Placing Huge Wall to reduce the wind



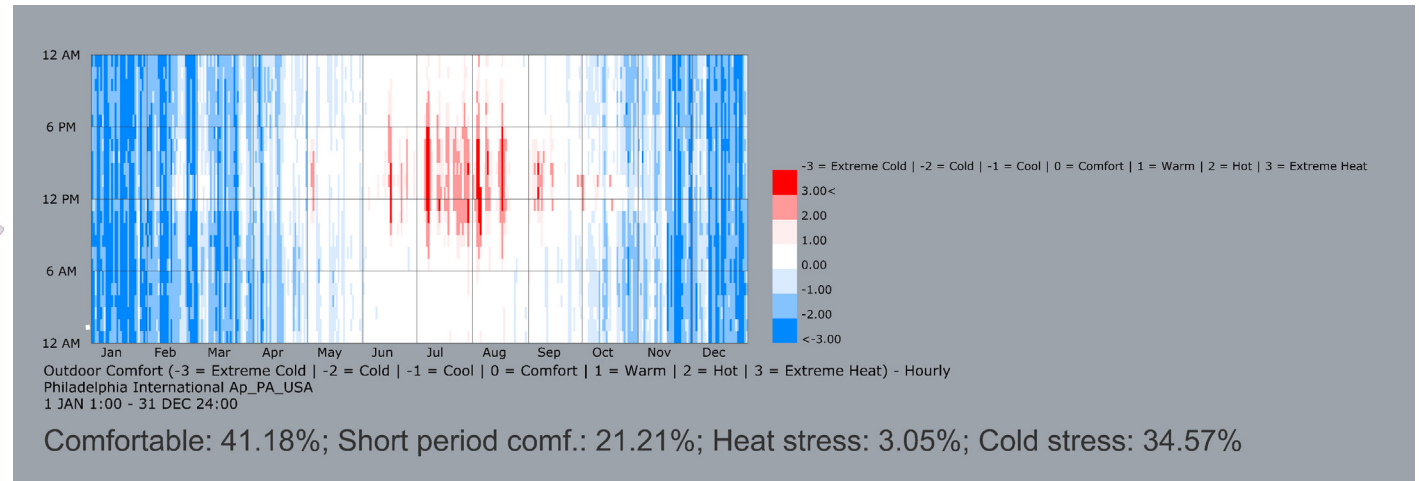
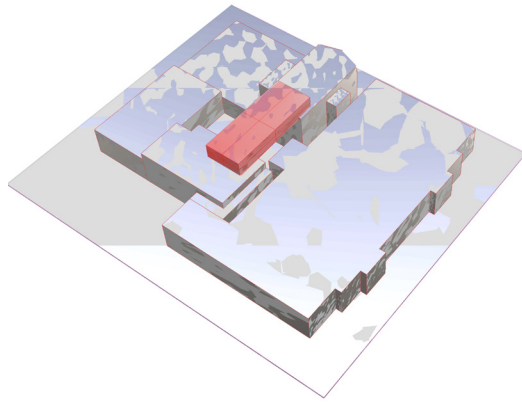
Percentage of Comfortable hours: 39.89%; Short period conf.: 20.56%; Heat stress: 5.37%; Cold stress: 34.19%

Ex 2: Built new building in empty space



Percentage of Comfortable hours: 40.9%; Short period conf.: 21.11%; Heat stress: 3.46%; Cold stress: 34.53%

Ex 3: Placing Hybrid bridge between two buildings



Percentage of Comfortable hours: 41.16%; Short period comf.: 21.21%; Heat stress: 3.05%; Cold stress: 34.57w%

4. Can you achieve comfort for %100 of the time? If not what is the highest possible percentage of comfortable hours that you can achieve with passive design strategies?.

No, it is not possible. I tried several designs to achieve the highest comfort. However, the highest was the 41.16% when I placed the hybrid bridge between the two buildings.