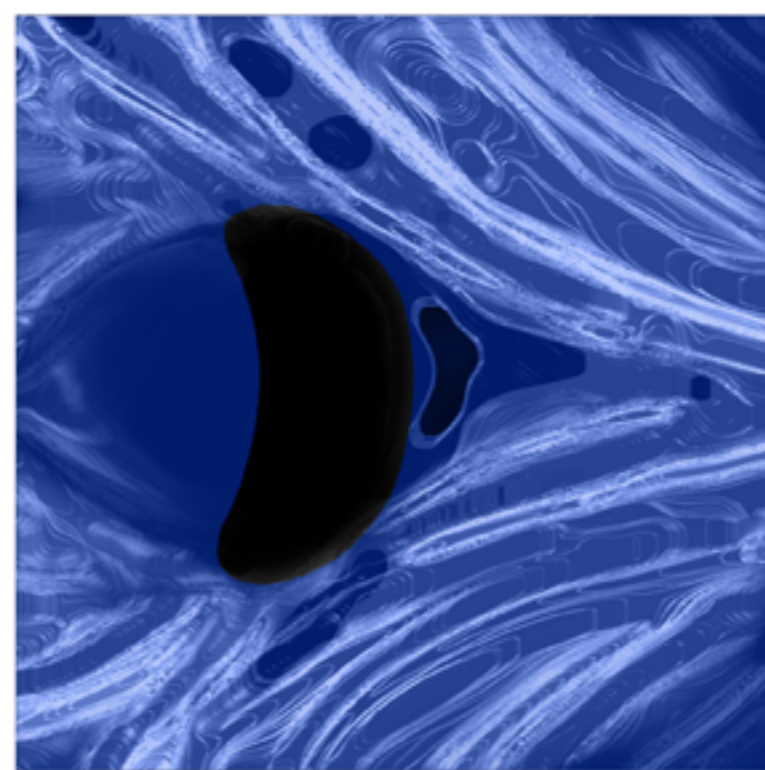
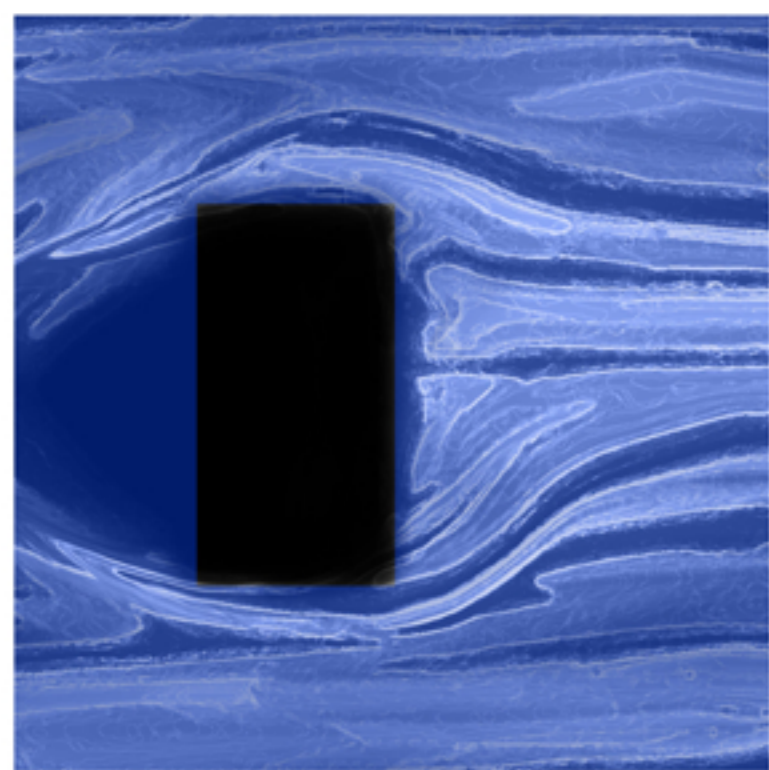
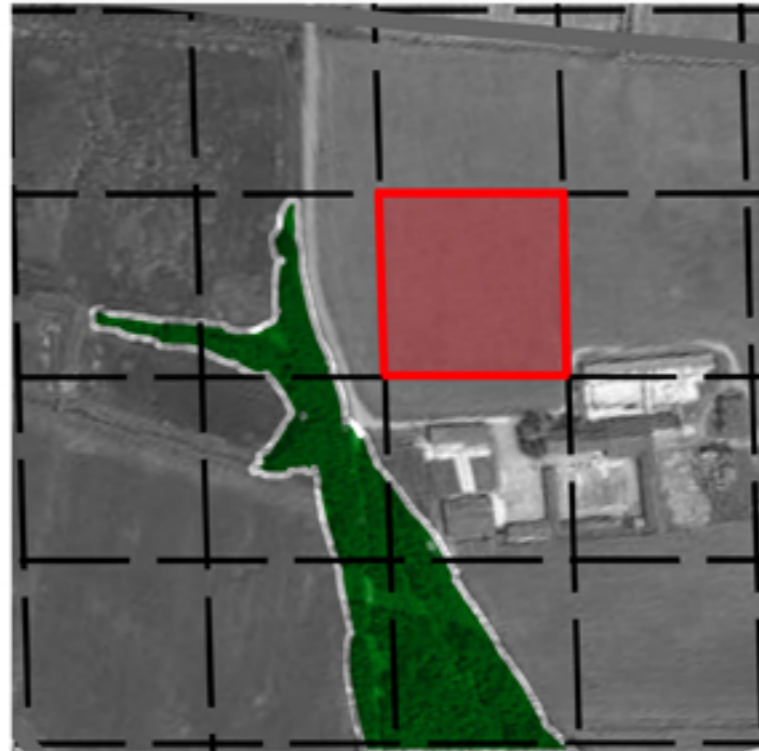
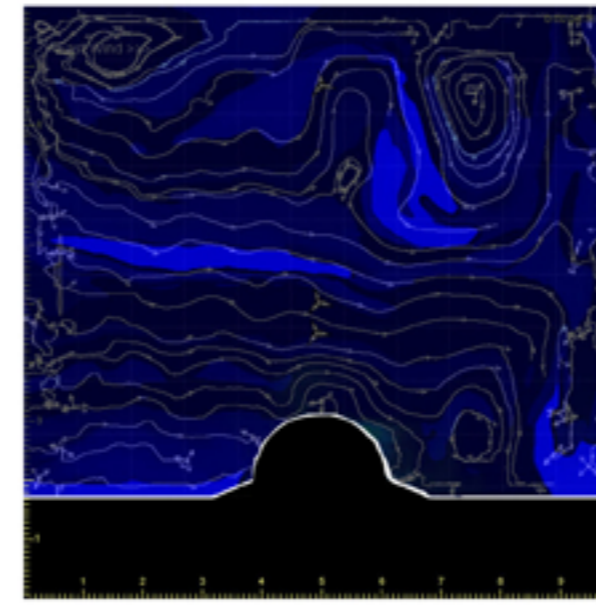


Design Strategy - Convection

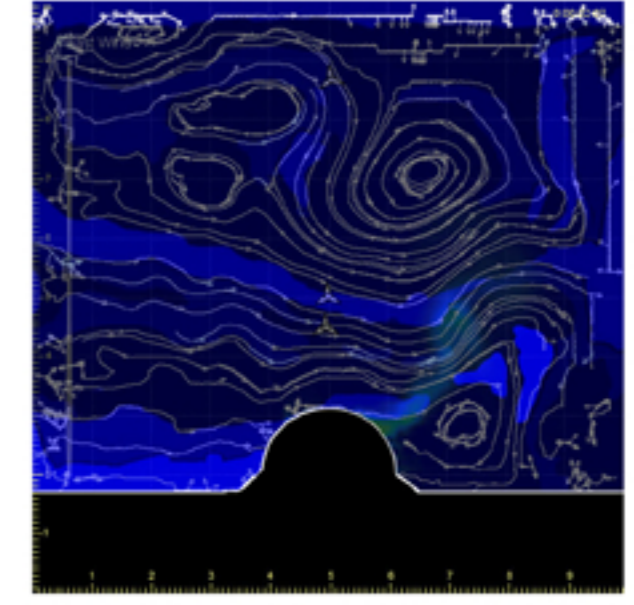


The prevailing wind will come from the East side as the West wind is blocked by the trees.

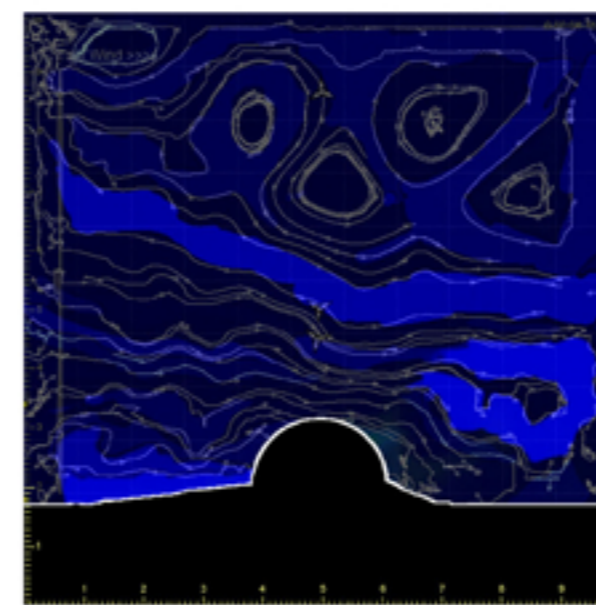
The plan of the building enables wind, and thus convection, to flow much more easily.



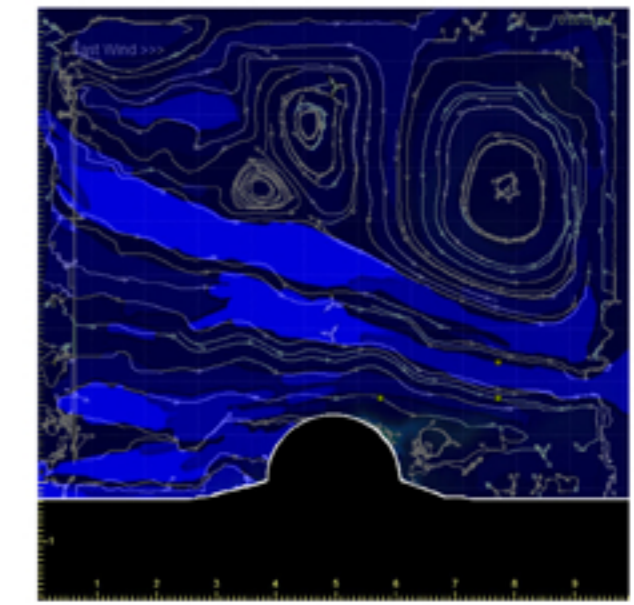
40°



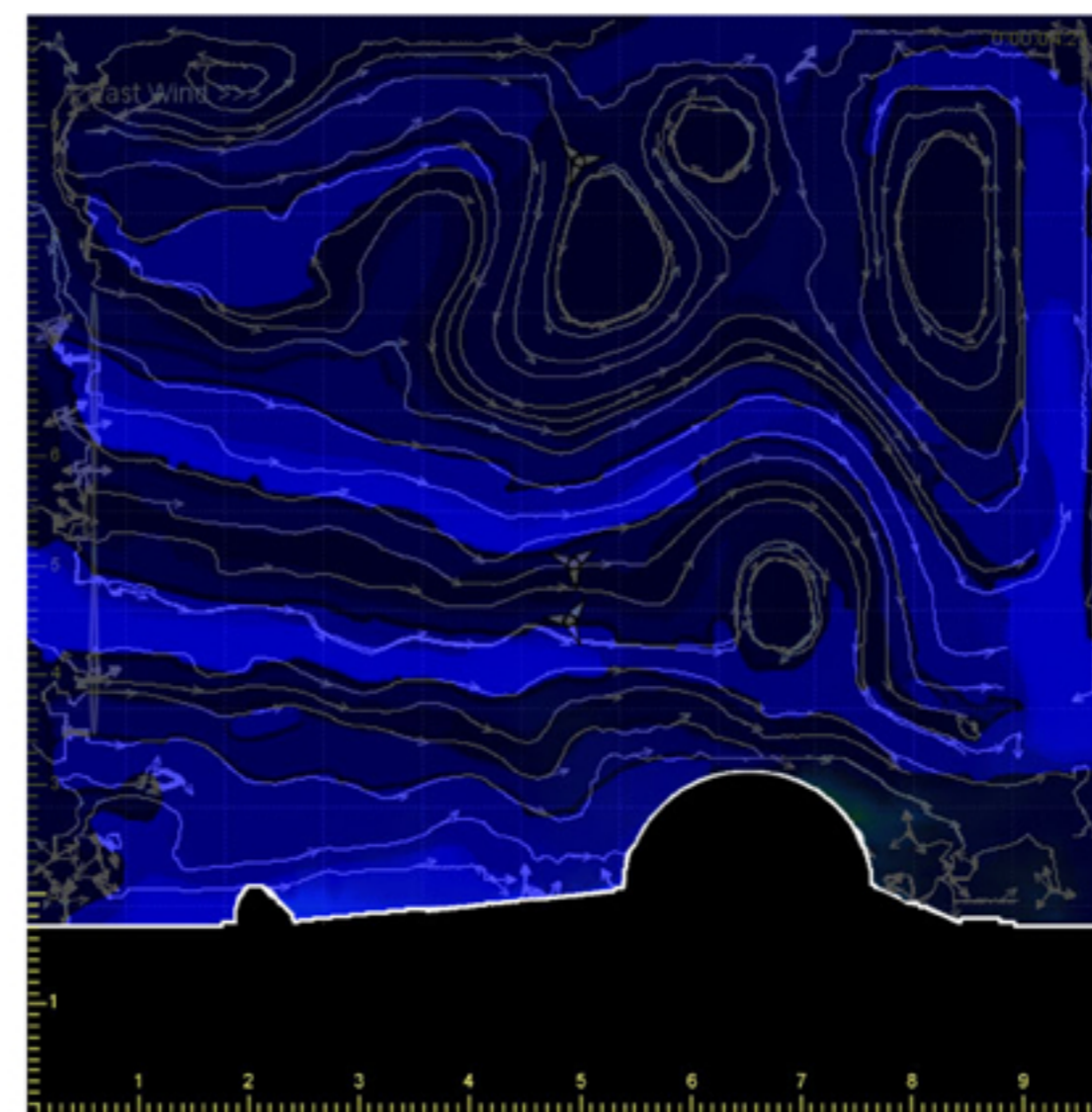
80°



10° and 40°



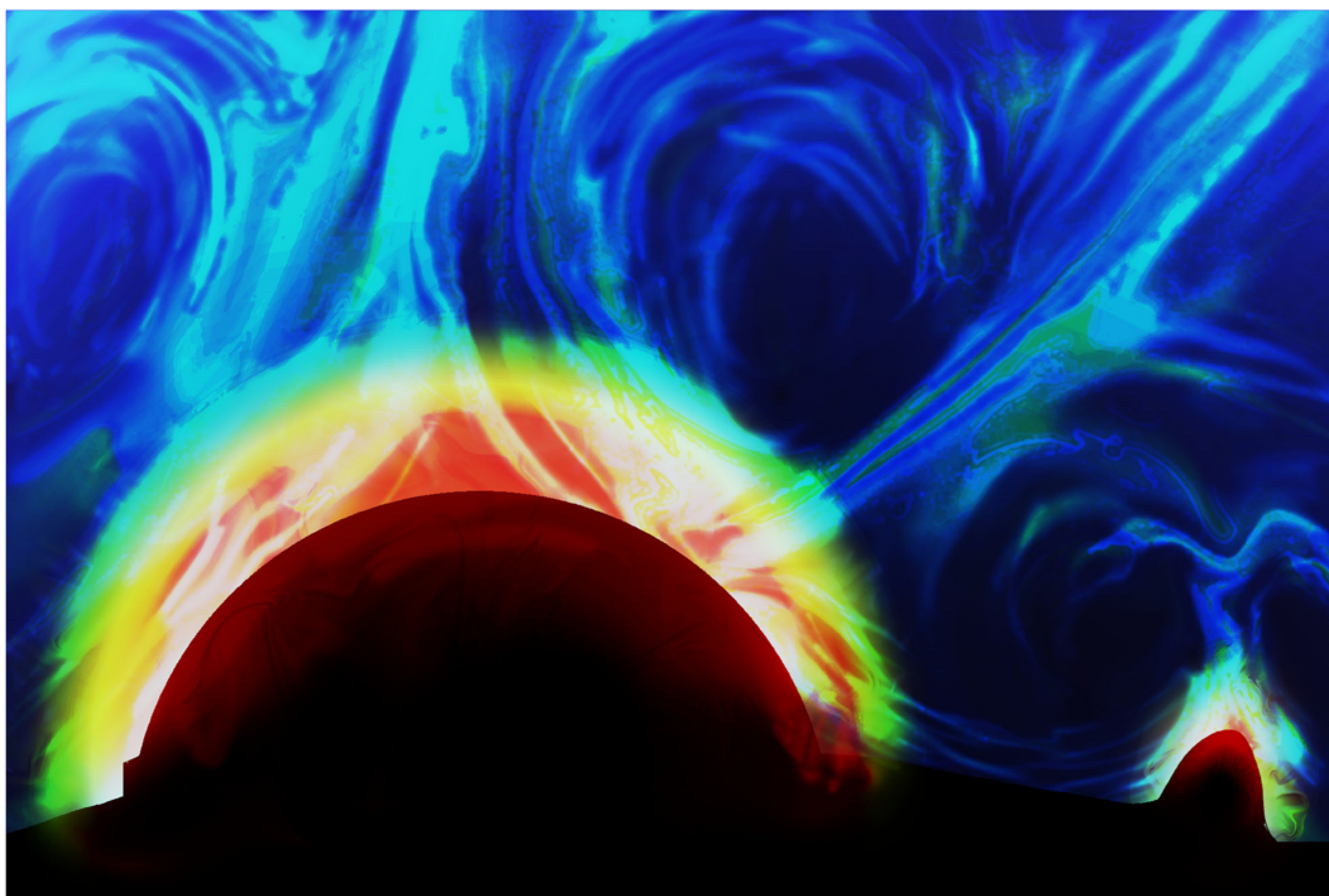
30° and 40°



Section of site; 10° and 40°

The combined height of the small hill and the humongous greenhouse produces a big difference in elevation thus driving natural convection according to the difference in the air's density.

Different angles of the slopes causes a change in the intensity of the convection.



The greenhouse traps more heat and is much hotter than a regular home thus driving the convection current as well.

This is important in order to prevent the bad odour from the waste input tank from invading the residence compound.