

### **Which are the main UHI effects that you can identify in your area?**

Due to rapid growth of population in the Philippines there is a need for development to cater the rapid growth. Having said, Urbanization has distorted the heat balance of the cities in urban areas thus supporting the phenomenon of urban heat island. What causes this are the materials utilized in the development of structures and foundations, and the absence of trees, vegetation green spaces which influence the dispersion and ingenuity of warmth in a city. Warmer temperatures increase energy consumption, emissions of air pollutants and greenhouse gases, impair water quality, and compromise human health and comfort.

It is very evident with the two pictures that Quezon City is highly-urbanized city while Bulacan City can be considered as rural to suburban city. Which means there is a higher impact produce by the city of Quezon because of urbanization and building footprint. As you can see in the picture the city of Bulacan has an opportunity to discuss the ways to mitigate effects of urban heat island since it has presence/surrounded by bodies of water and the can evaluate the development of infrastructures in the future.

### **Which are the measures you would propose?**

I think dissemination of information about urban heat island and its effects not only to environment but also to people will help in mitigating future policies concerning urban heat island. It will open opportunities for the public in contribution to lessen the effects. I think it will lead to different frameworks that will be helpful in the future.

### **Is UHI effect concerning policy making in your area?**

Government organizations are finding ways to relieve the harmful impacts of the rising temperatures in urban zones by evaluating the development of urban heat islands in rapidly urbanizing and highly urbanized urban cities and areas in the Philippines utilizing satellites and modeling-simulation methods.

They are currently studying and assessing the land surface temperature of different cities in the Philippines which are considered as highly-urbanized cities using satellite imageries in order to evaluate the effect of urban heat island not only in highly-urbanized cities but also the neighboring cities whether it is urbanized or in rural setting.



**Quezon City, Philippines**



**Bulacan City, Philippines**