

Palika Wannawilai

Professor Nathan Jennings

GEOG375

May 12th, 2020

**A Comparison Map of Air Pollution During COVID-19 Situation,
Bangkok, Thailand**

From the past to the present, Thailand has been facing an air pollution crisis, especially Bangkok. According to Nation Thailand news, Bangkok ranked the 7th worst city of air quality in the world. The problem has very high impacts on the local population. However, due to the pandemic of coronavirus disease 2019, Bangkok, which is the capital city of Thailand, was locked down. All avoidable activities were prohibited since increasing infection cases. This report focuses on a comparison of air pollution between before and during COVID-19 situation of Bangkok. As the Thai government had a new announcement to increase a higher concentration of social distancing starting from March 22nd, 2020. The two data were corrected from February and March before and after the city was locked down. In addition, the measurement of particulate matter (PM 2.5), which is an air pollutant that affects people's health with its high level, is a criterion of this report. Moreover, the project script demonstrates the use of python script organization such as Create Feature Layer, Definition Query, Create and Use Table Views, Search, and Insert, and Mapping Module.