



Team H2Plastic – Summary

Our visualization depicts the variation in the concentration of microplastics across different states along the Brazilian coast over 18 months, from April 2, 2017, to September 25, 2018. The data was obtained from NetCDF4 files downloaded from the PODACC website, through the CYGNSS L3 Ocean Microplastic Concentration (https://podaac.jpl.nasa.gov/dataset/CYGNSS_L3_MICROPLASTIC_V1.0) dataset. Our Python script utilizes various libraries, including Xarray for data manipulation, NumPy for numerical computation, Matplotlib for data visualization, Cartopy for geospatial plotting, and Matplotlib animation for video creation. Our approach directly contributes to achieving The Sustainable Development Goals (SDGs) of clean water and sanitation, but it also acts in a second manner on the climate action and zero hunger goals.