The data is sourced from China's National Surface Water Quality Automatic Monitoring Real time Data Release System（ https://earthengine.google.com/ ）The data range is the water quality data of 74 monitoring stations in the Yangtze River Basin of Hubei Province, Hunan Province, China (longitude 110 ° -115 °, Latitude 28 ° -31.6 °), data types include water temperature, PH， Dissolved oxygen, chemical oxygen demand, total phosphorus, total nitrogen, ammonia nitrogen, turbidity, conductivity. The data collection time is February 13th, 2024.