*My*IKLIM: Open Database on Environment and Climate Change Research in Malaysia

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Abstract

Malaysia faces significant threats from climate change, yet climate data remains scattered and full of scientific terms, making it difficult for people from different backgrounds to comprehend and take action. MyIKLIM serves as a centralized platform for climate data focusing on Malaysia, aiming to improve data accessibility and to address the lack of a coordinated climate database system. MyIKLIM provides a freely accessible and user-friendly platform that gathers and organizes Malaysia's climate-related research data for researchers, policymakers, and the public. MyIKLIM collects and curates published data from government agencies, research institutions and global organizations, focusing on local climate trends including air quality, atmospheric weather and land use, into illustrative formats for intuitive understanding. Some data is curated into interactive analytics using Microsoft Power BI to help users explore the information more easily. This improves public access to climate and environmental information, encouraging collaboration and awareness across multi-disciplinary sectors. The air quality and aerosol-related data shared on the MyIKLIM platform, such as national greenhouse gas emissions and monthly aerosol optical depth (AOD) in Malaysia, are adapted from published reports and journal papers. These data could be accessed through https://www.myiklimysd.ukm.my. MyIKLIM represents a crucial step forward in making climate change information accessible. MyIKLIM raises public awareness about the environmental and climate crisis and provides a reliable platform for sharing research. By doing so, it empowers future generations to have a better understanding of air quality and relevant environmental issues and enhances the management of climate-related challenges.

Keywords: Environment; Open Science; Data Curation; Public Engagement; Air Quality Research