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Copernicus - a new era in Earth Observation

Abstract

Copernicus has started a new era in Earth Observation, which also influences the impact of remote sensing data for analysis of aquatic and terrestrial ecosystems at our department. The Sentinels provide freely-available, frequent data that will also have a strong impact on future developments in Geography. Nowadays, we combine different sensors and merge remote sensing data with models or machine learning approaches to enhance analysis of spatially distributed phenomena. The talk provides insights into the remote sensing based research at the department of Geography at Kiel University starting from the use of Sentinel data for grassland monitoring towards time series analysis for coastal and inland waters monitoring.