

P46

Coastal water body database to monitor in the water quality and land use changes from remote sensing data

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Abstract: Satellite-based monitoring of coastal water bodies in all the relevant aspects is highly important for the sustainable use of those. To achieve this all the research findings should be easily accessed and presenting those in a user friendly manner will be more advantageous. In Sri Lanka, databases on research findings especially on coastal water bodies have not fully or never been developed. Thus we developed a Sri Lankan coastal water body database (CWBDS) on Knowledge Integrated Servers System for E-Learning (KISSEL) which can be benefitted for all the interest communities including general public. Presently it includes water quality data and land use changes over two decades of lagoons and estuaries and in near future it will be updated with support from universities and research organizations including research on biodiversity, fisheries, land use, socio economics, topography, water circulation, pollution etc.

Keywords: KISSEL, Sri Lanka, Data Sharing, Coastal Water, Sustainability Science