

Abstract: Urban growth is when people migrate one place to another then urban growth happens. Due to this growth many lands shrink. In this study the shrinkage of wetlands of east Kolkata due to the urban expansion is being analysed. For this analysis The high resolution satellite data is being used. To analyse how over the time 2000 to 2020 the east Kolkata wetlands area is reduced firstly land-use land-cover change analysis is being done after that to justify the changes NDBI, NDVI, NDWI, MNDWI, AWEI, WRI, LST, BINARY LOGISTIC REGRESSION is being done to analyse which indices are the most accurate for the analysis. Lastly in this analysis the whole analysis is published over web and made a web application using ArcGIS online so that everyone can use and watch the project while needed.

Keywords: Urban Growth, East Kolkata Wetlands Shrinkage, Binary Logistics Regression, Web app builder.