

Location suitability analysis of Environmental Education Facilities

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ABSTRACT

Environment Education (EE) becomes more important in Taiwan since the Environmental Education Act (EEA) was implemented in 2011. The establishment of Environmental Education Facilities (EEF) is an essential part when promoting it. There were 78 facilities to be certified by the end of January 2014, but the facilities certification lacks location consideration according to the current standard. The environment factors were included in this study to evaluate the facilities location condition in the middle of Taiwan. Vegetation Cover Ratio (VCR) and the Normalized Difference Vegetation Index (NDVI) were derived from satellite data to represent the physical environment condition. Meanwhile, transportation accessibility and services range were analyzed by GIS to explain the location suitability. We hope the criteria of EEF site selection can be improved and the location can become more suitable in the future.