

THE SPECIFIC ORDINATION AND CLUSTERING OF MANGROVE ECOSYSTEM IN SEGARA ANAKAN

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Abstract	<p>THE SPECIFIC ORDINATION AND CLUSTERING OF MANGROVE ECOSYSTEM IN SEGARA ANAKAN. Mangrove ecosystem has specific ordination and clustering following the adaptation toward the environment properties and species competition. This research had purpose to analysis a specific ordination using the relation between mangrove density and environmental properties. The research was carried out with a multidimensional system using density and environmental properties with similarity and Euclidian distance indexes. The results showed that West Segara Anakan (WSAL) had 6 ordination areas, and East Segara Anakan (ESAL) had 5 ordinations with a range density of 68-3373 trees/ha and 550-2975 trees/ ha. Based on environmental properties, WSAL had nitrate, phosphate, pyrite, water and soil pH, and water salinity levels of 10.57-31.44 mg/lit, 8.44-22.89 mg/lit, 1.03-1.57 %, 5.60-7.78, 6.58-7.03, and 24.15-33.85 ppt, respectively. In ESAL, nitrate, phosphate, pyrite, water and soil pH, and water salinity were within the range of 19.72-28.98 mg/lit, 10.83-19.72 mg/lit, 1.28-2.91%, 6.35-7.05, 5.91-6.23, and 18.00-32.33 ppt. Furthermore, specific ordination showed that <i>Rhizophora stylosa</i> , <i>Rhizophora apiculata</i> , <i>Avicennia marina</i> , and <i>Nypa frutican</i> had the highest level of adaptation to grow and life in Segara Anakan Lagoon (both of WSAL and ESAL.</p>
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