V. CONCLUSION AND SUGGESTION

A. Conclusion

Based on the outcomes of the research and discussion, it can be concluded

1. The abundance of microalgae in Segara Anakan and Kulon Progo were 5852 and 5389 ind/L respectively, composed by 3 phyla, 4 classes, and 29 genera with Nitzschia dominating both locations.

2. Bray-Curtis analyses revealed the high microalgal community similarity within each location, but lower similarity between locations with 43.5% overall average dissimilarity.

3. CCA analysis revealed that microalgal community reflected the water quality in nitrate and phosphate concentration for Segara Anakan and salinity for Kulon Progo.

B. Suggestion

Management of microalgal communities in Segara Anakan can be done by regulating nitrate and phosphate concentrations while salinity in Kulon Progo to maintain more stable mangrove water conditions.

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