

## ABSTRACT

Batik is one of the riches of world cultural arts originating from Indonesia. That way we as Indonesian citizens can support the existence of batik by preserving it. By making new patterns we have taken part in preserving batik itself. These patterns can be inspired by various forms of logos, objects, living things such as animals and plants. However, this research was taken on marine biota, especially coral reefs.

Indonesia as the largest archipelagic country, which of course has very wide waters, so it can be ascertained that there are many types of coral reefs in the Indonesian ocean. Seeing the many types and uniqueness of the types of coral reefs in Indonesian waters, this can be used as a pattern for developing new patterns in new batik. One type of coral reef that will become a new batik motif is *Leptoseris Explanata*.

In this study, a *Leptoseris Explanata* coral motif was made, in the making of coral motifs used mathematical operations in coral formation. From the results of the survey that has been done, it was found that 4 people (5.4%) gave point 6 out of 10 as an assessment of the suitability of the batik motif, 27 people (36.5%) gave point 7. 31 people (41.9%) gave point 8, 10 people (13.5%) gave point 9, and 2 people (2.7%) gave point 10.

Keyword : Application, Batik, Coral Reefs, Web

