

Dimas Pemilwan Putu Praja. 2026. *Pengembangan E-magazine Konteks Pantai Siring Kemuning untuk Meningkatkan Literasi Sains pada Materi Ekologi dan Keanekaragaman Hayati Indonesia*. Skripsi. Program Studi Pendidikan IPA. Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Yamin.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui validitas, keterbacaan, respons peserta didik, dan peningkatan literasi sains melalui pengembangan *e-magazine* berbasis konteks Pantai Siring Kemuning. Penelitian menggunakan metode (R&D) dengan model ADDIE yang meliputi tahap *Analysis, Design, Development, Implementation, dan Evaluation*. Penelitian dilakukan di SMP Negeri 1 Tanjung Bumi. Subjek penelitian terdiri atas 4 siswa kelas VIII-F pada uji coba perorangan, 10 siswa kelas VIII-F pada uji coba kelompok kecil, dan 30 siswa kelas VII-D pada tahap implementasi. Instrumen yang digunakan meliputi pedoman wawancara guru, angket kebutuhan siswa, lembar validasi ahli media dan ahli materi, angket keterbacaan, angket respons peserta didik, modul ajar, LKPD, dan tes literasi sains. Hasil penelitian menunjukkan bahwa validasi ahli media mendapatkan persentase 100% dan validasi ahli materi 94,44%, keduanya berkategori sangat valid. Tingkat keterbacaan *e-magazine* mencapai 90,14% dengan kategori sangat baik, sedangkan respons peserta didik memperoleh persentase 88,39% dengan kategori sangat baik. Selain itu, kemampuan literasi sains peserta didik mengalami peningkatan dengan nilai *N-gain* sebesar 0,54 yang termasuk kategori sedang. Dengan demikian, *e-magazine* berbasis konteks Pantai Siring Kemuning dinyatakan valid, memiliki keterbacaan dan respons yang sangat baik, serta mampu meningkatkan literasi sains peserta didik.

Kata Kunci: Ekologi dan Keanekaragaman Hayati Indonesia, Literasi Sains, *E-magazine*, Pantai Siring Kemuning.

Dimas Pemilwan Putu Praja. 2026. *Development of a Siring Kemuning Beach Context E-magazine to Improve Scientific Literacy on Ecology and Indonesian Biodiversity Topics*. Thesis. Science Education Study Program. Faculty of Teacher Training and Education, Trunojoyo University of Madura. Advisor: Yamin.

ABSTRACT

This study aimed to determine the validity, readability, student responses, and improvement of scientific literacy through the development of an e-magazine based on the context of Siring Kemuning Beach. This research employed a Research and Development (R&D) method using the ADDIE model, consisting of the Analysis, Design, Development, Implementation, and Evaluation stages. The study was conducted at SMP Negeri 1 Tanjung Bumi. The participants included 4 eighth-grade students for the individual trial, 10 eighth-grade students for the small-group trial, and 30 seventh-grade students for the implementation stage. The research instruments consisted of a teacher interview guide, student needs questionnaire, media and material validation sheets, readability questionnaire, student response questionnaire, lesson module, student worksheets, and a scientific literacy test. The results showed that the media and material validation scores reached 100% and 94.44%, respectively, both categorized as highly valid. The e-magazine achieved a readability score of 90.14% and a student response score of 88.39%, both categorized as very good. Furthermore, students' scientific literacy improved with an N-gain score of 0.54, indicating a moderate improvement. Therefore, the Siring Kemuning Beach context-based e-magazine is valid, highly readable, well accepted by students, and effective in improving students' scientific literacy.

Keyword: *Ecology and Indonesian Biodiversity, Scientific Literacy, E-magazine, Siring Kemuning Beach.*