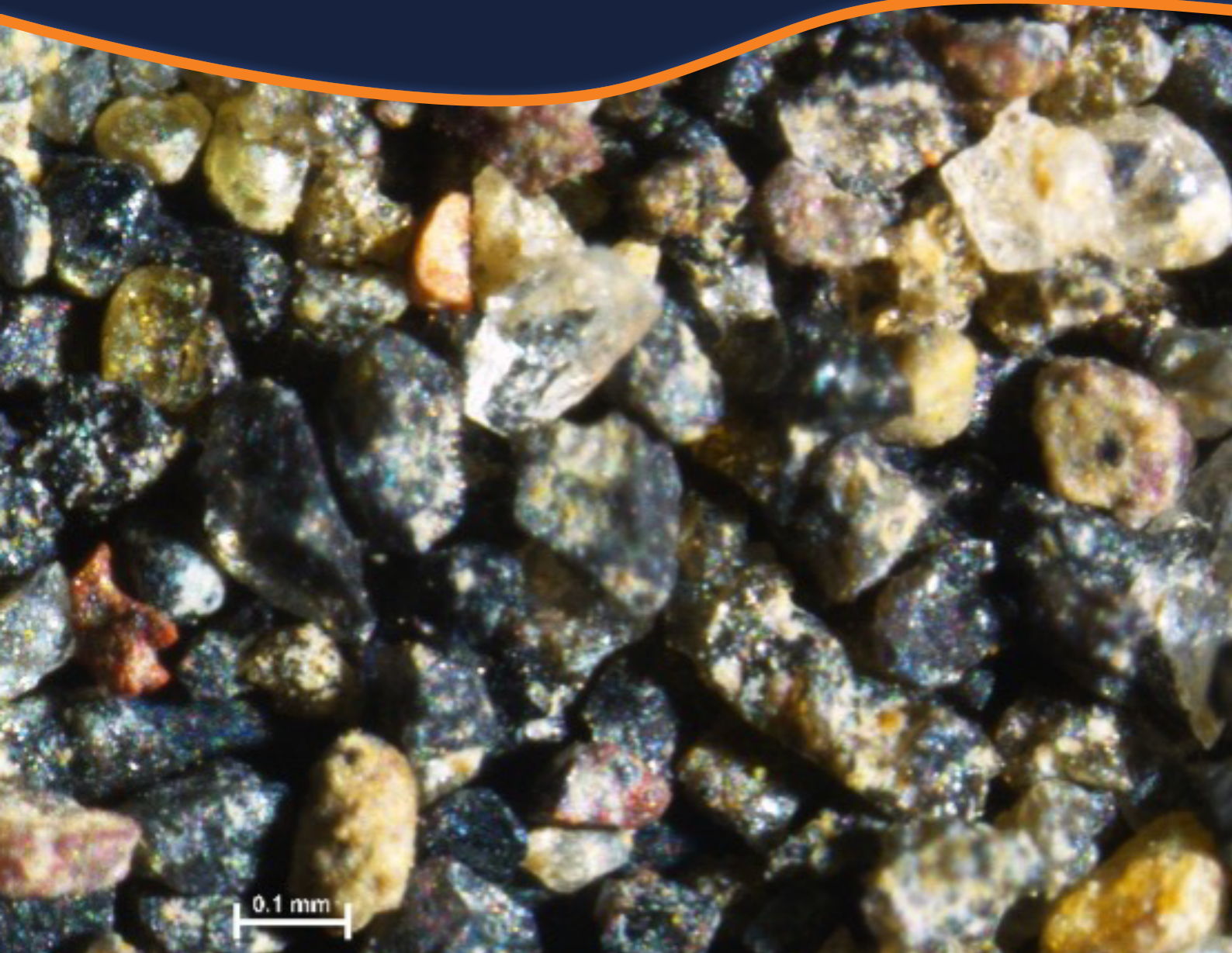


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**BALAI BESAR SURVEI DAN PEMETAAN GEOLOGI KELAUTAN**  
BADAN GEOLOGI  
KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL

# BULLETIN OF THE MARINE GEOLOGY

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## Preface

The second edition of our journal, Bulletin of the Marine Geology (BOMG) in 2023 contains six papers from various scientific disciplines written by experts in each field. The Editorial Board appreciates those who have contributed to submitting papers or reviewing them.

The first paper describes the examination of surface microtexture with well-preserved foraminifera specimens using SEM-EDS which is considered good for knowing small-scale carbonate diagenesis products beyond the traditional binocular microscope. This tool is recommended to aid amino acid dating in detecting reworked fossils.

In the second article, the focus discussion is on the geological interpretation of the sedimentary basins in northern Madura waters based on the gravity data analysis. The area of north Madura offshore is one of the sedimentary basins which has interesting paleogeographical developments. Gravity analysis consists of spectrum analysis, optimum upward continuation filtering, spectral decomposition analysis, 2D forward modeling and 3D inversion of gravity data. The next author elaborates the Granulometric Analysis of Paleotsunami candidate deposits in Ternate Island. Variations in mean, sorting, skewness and kurtosis values indicate changes in tsunami wave energy which cause changes in grain size.

The fourth article reveals a three-dimensional baroclinic circulation model study for the Musi coastal area. Coastal areas and river estuaries are areas where freshwater sources from land and sea meet. This ecosystem is influenced by several factors such as river water discharge, sea tides and bathymetry. This model helps in understanding the properties of water masses in space and time, as well as the interactions between various components.

The fifth paper discusses the provenance and distribution of Middle Baong Sand in the Malacca Strait. The results research show that the provenance of Middle Baong sand on land is predicted to originate from southwest Sumatra, contrary to general assumptions. Validation was carried out by comparing Malay Peninsula data with Kutacane research data and wells using REE analysis.

The last article presents the exploring marine geology and oceanography in Manggar waters: a prelude to the burgeoning Belitong geopark. This survey gather information about marine geology and oceanography around Manggar Waters, East Belitong, which is useful for coastal and marine planning areas as well as enriching geological heritage data.

Finally, the Editorial Board is always looking forward to receiving papers in marine geology from various scientific disciplines to diversify contributions and enhance the quality of our journal. We also invite critiques for improving this journal. Enjoy reading this publication, and welcome to seeing you again in the first edition next year.

Bandung, December 2023  
Warm regards,

Editorial Board

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