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RESEARCH AND DEVELOPMENT AGENCIES FOR ENERGY AND MINERAL RESOURCES  
MINISTRY OF ENERGY AND MINERAL RESOURCES

**PUSAT PENELITIAN DAN PENGEMBANGAN GEOLOGI KELAUTAN**  
BADAN PENELITIAN DAN PENGEMBANGAN ENERGI DAN SUMBER DAYA MINERAL  
KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL

# BULLETIN OF THE MARINE GEOLOGY

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Cover Figure : **Geomarin-I in Memories**

## PREFACE

This year marks the end of the operation of Research Vessel Geomarin I owned and operated by Marine Geological Institute of Indonesia (MGI) (Cover figure). Ship with tonnage 179 GRT, length 31 m and width 6.8 m had been operated for more than thirty years since its launching January 1990 in Jakarta. During its operation, Geomarin 1 had systematically mapped marine geology and geophysics of 87 quadrangles of 1:250,000 scale which mostly in Java Sea and western Indonesia Region. The ship had also anchored in 35 from 121 Indonesia's harbors within 20 provincial areas. Geomarin 1 based was at Cirebon Harbor and it had explored until Aceh the westernmost Indonesian territory, Bitung North Sulawesi and Flores Sea. It produced 174,000 km single channel seismic, 87,000 km magnet data, 4,350 seafloor sediment samples and 87 scientific reports. State Property and Auction Service Cirebon had successfully executed the sale of Geomarin 1 through open bidding at Thursday 16th July 2020. The auction winner was a businessman from Jakarta.

The 2020 year first edition presents the first paper Site Determination for OTEC Turbine Installation of 100 MW Capacity in North Bali by MGI. The second paper Petrophysical Analyses to Determine Reservoir and Source Rocks in Berau Basin, West Papua Waters, by Geophysics Department University of Padjadjaran in collaboration with MGI. The third paper Hydrodynamics of Palu Bay during the Event of 2018 Palu Earthquake and Tsunami, by Marine Research Centre - Ministry of Marine Affairs and Fishery in collaboration with Oceanography Study Program, Bandung Institute Technology. The fourth paper Detecting the Weathering Process on Basaltic Andesite Rock at Coastal Atmosphere Using Magnetic Susceptibility and  $Fe_3O_4/Fe_2O_3$  Ratio. And the fifth paper Nickel in Buli Coastal Area, East Halmahera by MGI. The editors appreciate the valuable contribution of the authors for this edition.

Chief Editor

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