

**GEOLOGI DAN STUDI FASIES BATUGAMPING
FORMASI WONOSARI
DAERAH RINGINREJO DAN SEKITARNYA
KECAMATAN WATES, KABUPATEN BLITAR,
PROVINSI JAWA TIMUR**

SARI

**GALANG RESHA AZ HARI QULBY
111 110 036**

Daerah penelitian terletak pada wilayah selatan Kabupaten Blitar dan Kabupaten Malang, secara administratif termasuk dalam wilayah Ringinrejo dan sekitarnya, Kecamatan Wates, Kabupaten Blitar, Jawa Timur. Secara geografis terletak pada koordinat 646150 mE – 655993 mE dan 9078712 mN – 9086845 mN dengan luasan 80 km² (8 km x 10 km) yang meliputi desa Ringinrejo, Tugurejo, dan Purwosari yang mempunyai skala 1 : 20.000

Secara geomorfik, daerah penelitian dibagi menjadi lima satuan bentukan asal, yaitu bentukan asal Struktural terdiri atas sub satuan geomorfik lereng homoklin (S21) dan lembah homoklin (S2), bentuk asal Karst terdiri dari sub satuan geomorfik perbukitan karst (K1), bentuk asal Fluvial terdiri atas sub satuan geomorfik tubuh sungai (F1), dataran limpah banjir (F2) dan dataran alluvial (F3), bentuk asal marine terdiri dari satuan sub geomorfik bibir pantai (M1), dan satuan bentuk asal Aeolian terdiri dari satuan sub geomorfik dataran pantai (A1).

Secara stratigrafi daerah penelitian ini terbagi menjadi empat satuan batuan yaitu Satuan breksi Mandalika yang berumur Kala Oligosen Akhir – Miosen Awal, satuan anggota tuf mandalika yang berumur kala Oligosen Akhir – Miosen Awal. Satuan batugamping Wonosari yang berumur Kala Miosen Tengah – Miosen Akhir dengan zonasi blow (N13 – N16) dari sampel batuan LP 23 dan LP 26 pada lintasan penampang stratigrafi terukur. Satuan endapan alluvial Kala Holosen. Struktur geologi yang berkembang pada daerah penelitian yaitu sesar mendatar Ringinrejo.

Penampang stratigrafi terukur dan litofasies asosiasi fasies pada Formasi Wonosari diantaranya adalah asosiasi fasies *Wackestone and Packstone Restricted Circulation Marine Platform* asosiasi fasies *Wackestone and Packstone Open Marine Platform* dan asosiasi fasies *Bafflestone and Framestone Open Marine Platform* (Wilson, 1975). Interpretasi asosiasi fasies lingkungan pengendapan Formasi Wonosari diantaranya adalah lingkungan *restricted circulation marine platform* dan *open marine platform interior* (Wilson 1975) merupakan lingkungan *platform interior* yang berada di belakang *barrier reef*.

**GEOLOGY AND STUDY LIMESTONE FACIES
FORMATION WONOSARI
RINGINREJO AREA
WATES DISTRICT, BLITAR REGENCY,
EAST JAVA PROVINCE**

ABSTRACT

**GALANG RESHA AZ HARI QULBY
111 110 036**

The research area is located in the southern region of Blitar and Malang, administratively included in Ringinrejo area, District Wates, Blitar, East Java. Geographically located at coordinates mE 646 150 - 655 993 mE and 9,078,712 mN - 9086845 mN with an area of 80 km² (8 km x 10 km), which includes the village Ringinrejo, Tugurejo, and Purwosari which has a scale of 1: 20,000

In geomorphic, the study area was divided into five units formed of origin, namely the formation of origin Structural consists of sub-units of geomorphic slope homoklin (S21) and valleys homoklin (S2), the primary forms Karst consists of a sub unit of geomorphic karst (K1), primary forms Fluvial consisting of sub-units of geomorphic body streams (F1), plains overflow flood (F2) and alluvial (F3), the original form of marine consists of units of sub geomorphic shoreline (M1), and a unit of the primary forms Aeolian consists of units of sub geomorphic coastal plains (A1).

Stratigraphically carefully situations region is divided into four, namely Unit breccia lithologies Mandalika old Kala Late Oligocene - Early Miocene, unit members Mandalika old tuff time Late Oligocene - Early Miocene. Wonosari old limestone unit Kala Middle Miocene - Late Miocene with zoning blow (N13 - N16) of rock samples LP 23 and LP 26 in track stratigraphic cross sections measured. Unit Kala Holocene alluvial deposits. The geological structure that developed in the area carefully situations, transform fault Ringinrejo.

Stratigraphic cross sections measured and litofasies facies associations in the Formation Wonosari include Wackestone facies associations and packstone Restricted Circulation Marine Platform facies associations and packstone Wackeston Marine Open Platform and facies associations and Framestone Bafflestone Marine Open Platform (Wilson, 1975). Interpretation of facies associations Wonosari Formation depositional environment including the circulation restricted marine environment and open marine platform interior platform (Wilson 1975) is an interior platform environment that is behind the barrier reef.