

## RINGKASAN

MERSA RINDANI. Estimasi Jasa Ekosistem Terumbu Karang di Pulau Mapur Kabupaten Bintan Kepulauan Riau. Dibimbing oleh WAHYUDIN dan KHAIRUL HAFSAR.

Pulau Mapur memiliki total luas 1.046,29 Hektar, terletak di sebelah timur Pulau Bintan. Perairan Pulau Mapur memiliki potensi terumbu karang yang dimanfaatkan langsung oleh nelayan sebagai daerah tangkapan ikan (*Fishing Ground*) dan mempunyai perairan pantai cukup menarik untuk dijadikan objek wisata bahari seperti kegiatan *snorkeling* ataupun *diving*. Penelitian bertujuan untuk mengidentifikasi jasa ekosistem terumbu karang di Pulau Mapur Kabupaten Bintan Kepulauan Riau serta mengestimasi nilai ekonomi total ekosistem terumbu karang di Mapur Kabupaten Bintan. Penelitian dilaksanakan di Pulau Mapur, Kabupaten Bintan pada bulan Januari – Februari 2022. Penelitian menggunakan metode survei yaitu dengan melakukan observasi di lapangan dan wawancara secara langsung dengan responden, serta menggunakan kuesioner sebagai alat pengumpul data. Kemudian data yang sudah didapat dianalisis secara kuantitatif. Penentuan responden menggunakan metode acak sederhana *Simple Random Sampling*. Prosedur penelitian memiliki tiga tahap yaitu persiapan, pelaksanaan dan pengolahan data. Analisis data berupa nilai manfaat langsung (*Direct Use Value*), manfaat tidak langsung (*Indirect Use Value*), manfaat pilihan (*Option Value*), dan manfaat keberadaan (*Existence Value*), nilai total ekonomi (*Total Economic Value*). Hasil indentifikasi manfaat jasa ekosistem terumbu karang di Pulau Mapur Kabupaten Bintan Kepulauan Riau didapatkan 4 manfaat yakni: Manfaat langsung; manfaat tidak langsung; manfaat pilihan; manfaat keberadaan. Hasil nilai total ekonomi ekosistem terumbu karang di Pulau Mapur, Kabupaten Bintan dengan luas 1.046,29 ha sebesar Rp1.204.977.649.277/tahun. Dengan nilai manfaat langsung ekosistem terumbu karang di Pulau Mapur sebesar Rp450.237.569.430/tahun, nilai tidak langsung ekosistem terumbu karang sebesar Rp753.636.514.000/tahun, nilai pilihan sebesar Rp1.002.965.223,68/tahun, nilai manfaat keberadaan sebesar Rp100.600.623/tahun.

Kata kunci: Jasa Ekosistem, Ekosistem Terumbu Karang, Pulau Mapur

## SUMMARY

MERSA RINDANI. Estimation of Coral Reef Ecosystem Services on Mapur Island, Bintan Regency, Riau Islands. Guided by WAHYUDIN and KHAIRUL HAFSAR.

Mapur Island has a total area of 1.046,29 hectares, located to the east of Bintan Island. The waters of Mapur Island have the potential for coral reefs that are directly utilized by fishermen as fishing grounds and have beach waters that are quite interesting to be used as marine tourism objects such as snorkeling or diving activities. The study aims to identify coral reef ecosystem services on Mapur Island, Bintan Regency, Riau Islands and estimate the total economic value of coral reef ecosystems in Mapur Kabupaten Bintan. The research was conducted on Mapur Island, Bintan Regency in January – February 2022. The research used the survey method, namely by conducting observations in the field and interviewing directly with respondents, as well as using questionnaires as a data collection tool. Then the data already obtained are quantitatively analyzed. Determination of respondents using a simple random method of Simple Random Sampling. The research procedure has three stages, namely preparation, implementation and data processing. Data analysis in the form of direct use value, indirect use value, option value, and existence value, total economy value. The results of identifying the benefits of coral reef ecosystem services on Mapur Island, Bintan Regency, Riau Islands, obtained 4 benefits, namely: Direct Benefits; indirect benefits; the benefits of choice; the benefits of existence. The result of the total economic value of the coral reef ecosystem on Mapur Island, Bintan Regency with an area of 1.046,29 ha is IDR 1.204.977.649.277/year. With the value of direct benefits of coral reef ecosystems on Mapur Island of IDR 450.237.569.430/year, indirect benefits of coral reef ecosystems of IDR 753.636.514.000/year, option value of IDR 1.002.965.223.68/year, existence value of IDR Rp100.600.623/year.

Keywords: Ecosystem Services, Coral Reef Ecosystems, Mapur Island