ABSTRAK

Muhammad Sahlan R. Raden NPM 05181911023. Komposisi Dan Kelimpahan Ikan Karang Pada Area *Fish Apartment* Di Perairan Taman Nukila Kota Ternate. Dibimbing oleh Dr. Abdurrachman Baksir, S.Pi, M.Si. Dan Firdaut Ismail, S.Pi, M.Si,

Keberadaan ekosistem terumbu karang secara ekologis berfungsi sebagai habitat bagi banyak organisme, termasuk ikan karang. Ikan karang berperan utama secara fungsional dalam ekosistem terumbu karang. Penelitian ini bertujuan untuk Menganalisis komposisi ikan karang herbivora, omnivora, dan karnivora, kelimpahan ikan karang herbivora, omnivora, dan karnivora ,dan keanekragaman ikan karang herbivora, omnivora, dan karnivora. Metode yang di gunakan dalam pengambilan data mengunakan 3 metode Permanent Quadratik (*Quadratic Permanent*) Pemasangan quadrat secara horizontal pada *Fish Apartment* di lokasi penilitian untuk membatasi area pengamatan ikan karang pada *Fish Apartment*, Sensus Visual Ikan Karang (*Coral Reef Fish Visual Census*), berfungsi untuk melihat dan mengamati ikan karang yang berada pada lokasi penelitian di area yang telah di pasang batas kuadran. *Underwater Video Transect* (UVT), berfungsi sebagai video pada area pengamatan yang di pasang transek yang berada dalam kuadran pada lokasi penelitian ikan karang yang respon di area pengamatan. Hasil identifikasi jenis ikan karang pada *Fish Apartment* pada periaran taman nukila kota ternate terdapat 6 *family* ikan yaitu : *Pomacentridae, Priacanthidae, Chaetodontidae, Lutjanidae, Bothidae, Aulostomidae*. Dan terdapat 15 *spesies* jenis ikan yang di temukan pada area penelitian yaitu *Chorimis Scotochiloptera, Chromis Opercularis, Amblyglyphidodon Leucogaster, Dascyllus Albisella, cheatodon kleinii, caetodon lunulatus, Zanclus Cornutus, pygoplipates diacanthus, Scolopsis ciliate, Bothus mancus, Priacanthus Hamrur, aulostomus chinensis, Lutjanus Biguttatus, Haniochus Varius* dan *Pomacentrus Tripunctatus.* Kategori ikan *karnivora* mendominasi area *Fish Apartment* di periaran Taman Nukila Kota Ternate pada area lokasi pengamatan. Kelimpahan ikan di karang yang baik terdapat pada 3 blok area.

Kata kunci: Ikan Karang, Komposisi Ikan Karang ,Kelimpahan Ikan Karang,Keanekaragaman Ikan Ikan**g,**

ABSTRACT

Muhammad Sahlan R. Raden NPM 05181911023. *Composition and Abundance of Coral Fish in the Fish Apartment Area in the Waters of* Taman Nukila, Ternate City. *Supervised by* Dr. Abdurrachman Baksir, S.Pi, M.Sc. *And* Firdaut Ismail, S.Pi, M.Si,

The existence of coral reef ecosystems ecologically functions as a habitat for many organisms, including coral fish. Coral fish play a major functional role in coral reef ecosystems. This study aims to analyze the composition of herbivorous, omnivorous and carnivorous coral fish, report on herbivorous, omnivorous and carnivorous coral fish, and the diversity of herbivorous, omnivorous and carnivorous coral fish. The method used in collecting data uses 3 Permanent Quadratic methods. Installing quadrats horizontally in the Fish Apartment at the research location to limit the coral fish observation area in the Fish Apartment, the Coral Reef Fish Visual Census, functions to see and observe coral fish at the research location in the area where quadrant boundaries have been installed. Underwater Video Transect (UVT), functions as a video in the observation area where a transect is installed in a quadrant at the research location for coral fish that respond to the observation area. The results of identifying types of coral fish in the Fish Apartment in the Nukila Park area of Ternate City showed that there were 6 families of fish, namely: Pomacentridae, Priacanthidae, Chaetodontidae, Lutjanidae, Bothidae, Aulostomidae. And there were 15 species of fish found in the research area, namely Chorimis Scotochiloptera, Chromis Opercularis, Amblyglyphidodon Leucogaster, Dascyllus Albisella, cheatodon kleinii, caetodon lunulatus, Zanclus Cornutus, pygoplipates diacanthus, Scolopsis ciliate, Bothus mancus, Priacanthus Hamrur, aulostomus chinensis, Lutjanus Bigut tats , Haniochus Varius and Pomacentrus Tripunctatus. The dominant fish category dominates the Fish Apartment area in the Nukila Park area of Ternate City in the observation location area. There is a good abundance of fish in the coral in the 3 block areas.

Keywords: Coral Fish, Coral Fish Composition, Coral Fish Abundance, Fish Diversity.