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Fish Structure Community in Sea.grass Bed of Gili Asa.ban West Lombok

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Abstract

Seagrass beds are one of the coastal ecosystems that have a very important role, because their function as nursery ground, feeding ground and spawning ground of various organism. However, the management of seagrass ecosystems has not been done optimally. One reason is the lack of data. This study aims to examine the structure of fish communities in seagrass beds on GiliAsahan waters, West Lombok. This research was carried out by observed the percentage of seagrass cover and the composition of fish species in the two selected stations. To find out the percentage of seagrass cover, the research method refers to the monitoring standards set by the Seagrass Watch. Whereas to find out the composition of fish is done by identified all species of fish caught by gill nets that are installed parallel to the island. The results of the study found five types of seagrass species namely *Enhalusacoroides*, *Thalassiahemprichii*, *Syringodiumisoetifolium*, *Halophilaovalis* and *Haloduleuninervis* percentage of seagrass cover ranging from 27 - 42%. The numbers of fish species found were 15 species from 10 families. The diversity of fish, besides being affected by the density and number of seagrass species, may also be affected by the depth of the water.

Keywords: fish, structure community, seagrass, GiliAsahan

1. Introduction

Seagrass ecosystems are one of the typical ecosystems in tropical waters. This ecosystem is characterized by the presence of seagrasses that form overlays. Generally found in calm waters with a depth of 0 - 40 m (Hemminga and Duarte 2000). Seagrass ecosystems are a suitable place for the survival of various biota because of its function as a feeding ground, nursery maintenance and as a place for spawning ground (Aswandy dan Azkab, 2000).

The seagrass community structure in a waters consists of different compositions, with different densities (percentage closures). There are seagrass beds that are composed of a



single type, but most of the seagrass beds are mixed communities. The difference in composition and density of seagrass in a waters is thought to affect the structure and composition of seagrass associations in these waters.

One of the association biota of seagrass is fish..Certain types of fish occupy seagrass ecosystems both during and part of their life cycle. Although the types of fish and seagrass associations are not clear, but there is a tendency for higher levels of seagrass diversity, the higher the abundance of fish (Faiqoh et al., 2017). Therefore, besides the percentage of cover, the level of seagrass diversity can be one indicator of the condition of the ecosystem. The relationship between the diversity index is directly proportional to the condition of the ecosystem. The better the ecosystem condition, the higher the seagrass diversity index.

Seagrass ecosystems can be found almost all over the coast of the island of Lombok which has a protected beach. For example in Sire Beach, GijiMatra Waters, Maringke Island and its surroundings and on the islands around Sekotong, West Lombok. However, very little is known about the condition of the ecosystem, including its associated associations

2. Materials and Method

Research was conducted in October 2018, in Gili Asahan Waters, Lombok Island (Figure 1). Gili Asahan is one of 25 Small Islands in West LombokRegency. Gili Asahan is located in the Southwest of Lombok Island whichadministrativelyincludes the area of BatuPutihVillage, West SekotongDistrict, West LombokRegency. The island is inhabited and is one of the island'stouristdestinations on the island of Lombok.

Method of collectingseagrass data with the Line Intercept Transect (LIT). Steps to measure the structure of seagrass vegetation are transects mounted perpendicular to the shoreline, from the boundary to the start of seagrass until seagrass is not observed. Every 10 meters on the transect line is squared with a size of 50x50 cm, up to 30 m long.

Fish samples were obtained using gill nets mounted parallel to the shoreline at the seagrass observation location. Fish caught, if they can be identified directly, are recorded by type and number. If it cannot be identified, fish are grouped according to similarity, counted in number, then two samples are inserted into the sample plastic and given



formalin / alcohol, then taken to the laboratory to be identified according to Carpenter (2016) and fishbase.org



Figure 1. Site Study

The occurrence and the percentage of coverage seagrass were calculated by using the formula proposed by English et al (1994). Species composition of fish was calculated by using formula in Rappe (2010).

3 Results and Discussion

The presence of seagrass species at each research station can be seen in Table 3. The table shows that all types of seagrass found at the two stations are the same except for *Enhalusacoroideseagrass*. This type of seagrass is only found at station 2.

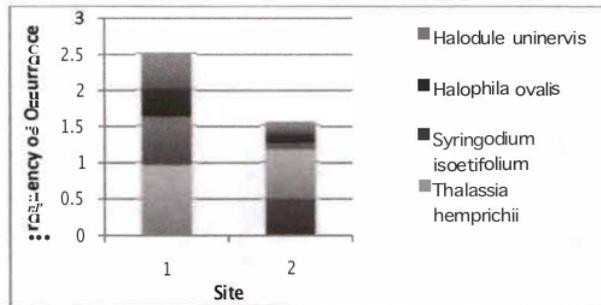


Figure 1. Frequency of Seagrass Occurrence in Study area

The number of seagrass species found in GiliAsahan is less than other waters on Lombok Island. The results of the research of Kiswara (1996) found 11 species in Gerupuk Bay, Central Lombok. The eleven species are *E. acroides*, *T. hemprichii*, *H. minor*, *H. ovalis*, *H. spinulosa*, *Cymodocearotundata*, *C. serrulata*, *H. pinifolia*, *H. universis*, *S. isoetifolium* and *Thalassodendrumciliatum*.

Based on the value of frequency and relative frequency, the type of seagrass *Thalassia hemprichii* is the type of seagrass most commonly found at both stations. However, the frequency of presence of other seagrass types differs between station 1 and station 2.

The absence of seagrass *E. acroides* at station 1 is closely related to the depth of the waters. As shown in Table 2, the depth of station I is less than 1 meter. Whereas *E. acroides* seagrass is a type of seagrass that has long, stiff leaves that can reach more than one meter (Kiswara and Hutomo, 1985;

Then at station 1 found more *Syringodium isoetifolium* compared to station 2. This shows that seagrass *S. isoetifolium* lives more in shallow waters. However, this is inversely proportional to the opinion of Kasim (2013) which states that *S. isoetifolium* seagrass species were not found at <1 meter depth due to seagrass types *Syringodium isoetifolium* is difficult to grow in shallow areas and can thrive in waters which are always flooded by water.



In seagrass *Halophila ovalis* and *Halodule uninervis* showed high yields at station 1 (less than 1 meter) compared to station 2 (more than 1 meter), which showed that these seagrasses preferred to live in shallow waters. This is consistent with the statement of Romimohtarto and Juwana (2011) that species of seagrass *Halophila ovalis* and *Halodule uninervis* can grow in shallow waters with sandy and muddy substrates or sometimes on coral reefs.

Coverage of Seagrass

Based on the results of the study it was found that the closure of seagrass species at the two stations was different. In Table 4 it can be seen that the percentage of seagrass closure at station 1 is higher than station 2 which is 42.17% and 27.96%, respectively. Seagrass species *T. hemprichii* have the highest percentage of closure both at station 1 and station 2.

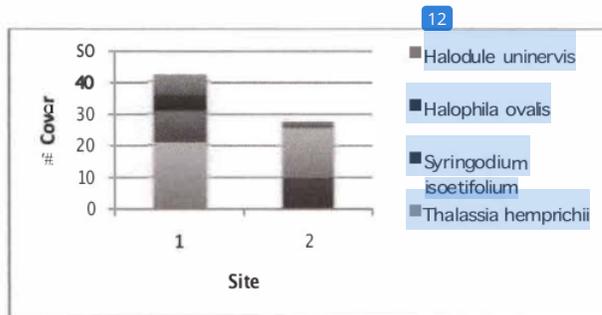


Figure 2. Percentage of Seagrass Cover in Study area

Seagrass ecosystems found in 2 Gili Asahan stations, West Lombok breed poorly in forming seagrass beds such as green carpet rugs. Referring to the Decree of the Minister of Environment No. 200 of 2004 concerning presenting damage criteria and guidelines for determining the status of seagrass beds where seagrass cover $\geq 60\%$ is classified as rich; 30 - 59.9% classified as less; and $\leq 29.9\%$ are classified as poor, then seagrass beds on Gili Asahan, West Lombok at station 1 are classified as poor and at station 2 are classified as poor.



Fish Structure Community

Species Composition

The results of the research conducted at the two research stations in the seagrass ecosystem of GiliAsahan found 1 species from the Mullidae family, 1 species from the Gerreidae family, 1 species from the Clupidae family, 1 species from the Carangidae family, 1 species from the Monach family, 1 species from the Scaridae family, 1 species from the Lethrinidae family, 1 species from the Mullidae family, 1 species from the Pomacentridae family, and 6 species from the Apogonidae family. The total number of species found was 15 species from 10 families (Table 3).

Table 1. Jenis [kan yang Ditemukan di Setiap Stasiun Penelitian Gili Asahan Lombok Barat

Species	Family	Site 1	Site 2
Sphyriena barracuda	Mullidae	-	+
Gerresequulus	Gerreidae	-	+
Sardinella aurita	Clupidae	-	+
Caranx hippos	Carangidae	-	+
Monachantustuckeri	Mouach	-	+
Leptoscaris vaigiensis	Scaridae	-	+
Lethrinus orrucus	Lethrinidae	+	+
Mulloidichthys martinicus	Mullidae	-	+
Dascyllus melanurus	Pomacentridae	+	-
Apogonichthyoides gardineri	Apogonidae	+	+
Apogon lactinacus	Apogonidae	-	+
Apogonoides sp 1	Apogonidae	-	+
Apogonoides sp 2	Apogonidae	-	+
Apogonoides sp 3	Apogonidae	-	+
Apogonoides sp 4	Apogonidae	-	+

+ = Found; - = not found

7 The number of fish species found in this study is less than the number of fish species found in seagrass ecosystems in other locations. As in Lompo Island, 28 species (Rappe, 2010) were found, and 31 species of Ambon Bay Lateri Beach were found (L. atuconsina,



2011). The methods used in the two previous studies respectively are visual census and beach seine. However, there are more species found in this research than those found by Assa et al. 2015 that used the same type of fishing gear in seagrass beds in Tongkaina waters.

The number of fish species found at station 2 is more than those found at station 1 (Figure 2). At station 1 only 3 types of fish were found from 3 families, while in station 2 there were 14 species from 10 families. Nonetheless, species from the Apogonidae family dominate in both stations.

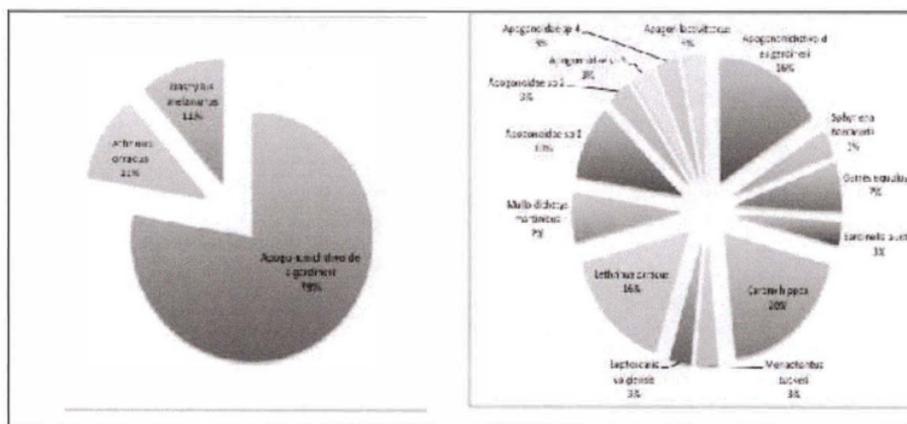


Figure 3. Fish Composition

The Apogonidae family can be identified by a small body size (<20 cm), large eyes and varied colors such as brown, black, red and yellow. Usually there are dark marks (spots and lines) on the posterior end or below the base of the second dorsal fin and on the tail stem and sometimes black lines on the head. The Apogonidae species found in this study is known as a species that spreads in the waters of coral reefs and surrounding areas such as fragments of coral and seagrass (Carpenter, 2016).

Some types of fish found at the study site are types of fish that can also be found in the area of coral reefs, and there are several types of pelagic fish, such as baracuda and Pompano fish. The existence of these fish in seagrass ecosystems is closely related to the



function of seagrass ecosystems as a place of care, a place to find food and shelter for several organisms (Azkab, 2006; Adrim, 2006).

The condition of seagrass ecosystem closure is good and the distance between ecosystems will greatly affect the presence of consumption of reef fish in the coral reef ecosystem. The closer the distance between seagrass ecosystems and coral reef ecosystems, and the better health conditions of these seagrass ecosystems, the more abundant consumption of reef fish (Dorenbosch, 2006). In the same research report, Dorenbosch (2006) explained that the interaction conditions were very close because consumption of reef fish would generally feel safer and more comfortable spawning around the seagrass ecosystem.

Diversity, Similarity and Dominance Index

The diversity index value, uniformity and dominance of fish found in the study sites are shown in Table 4. Based on the diversity index value it can be concluded that the level of fish diversity in station 1 is relatively low while at station 2 is high. This is because at station 1 only found 4 types of fish while at station 2 found 14 species of fish.

Likewise, the uniformity index value at station 1 is lower than in station 2. The uniformity index value explains the condition of the ecosystem at station 1 while being unstable while at station 2 is in a stable condition (Odum, 1983). Or in other words, the number of individuals for each type of fish in station 1 does not spread evenly as in station 2 (Rappe, 2010).

Conversely, the dominance index value at station 1 tends to be higher than station 2. However, this value is still relatively low, which means there are no species that dominate in both stations (Brower et al., 1990).

Table 2. Diversity, Similarity and Dominance Index of Fish in Seagrass Bed Gili Asahan

Index	Site 1	Site 2
Diversity	1,03	3,42
Similarity	0,65	0,89
Dominance	0,22	0,12



According to Rappe (2010) that fish diversity in seagrass areas is directly proportional to the level of density of seagrasses which are composed of one seagrass species (monospecific) and by more than one species. However, what we found in this study is different from that. At station 1, seagrass closure is higher (42.17%) than station 2 (27.%) but the level of diversity of fish species is lower than station 2. We suspect that in addition to seagrass cover, water depth factors also influence the presence of fish.

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References

- Adrim M. 2006. *Asosiasi ikan Di Padang Lamun. Oseana*, Volume XXXI, Nomor 4: 1 - 7
- Azkab MH. 2006. *Ada Apadengan Lamun?. Oseana*, Volume XXXI, Nomor 3, 2006: 45 - 55
- Aswandidan Azkab. 2000. *Hubungan Fauna Dengan Padang Lamun. Oseana*, Volume XXV, Nomor 3: 19- 24
- Carpenter KE. 2016. *The Living Marine Resources Of The Eastern Central Ar/antic. VOL 4 ff. Bony fishes part 2 (Perciformes to Tetradontiformes) and Sea turtles. FAO. Rome. 800p.*
- Hemminga MA, Duarte CM. 2000. *Seagrass Ecology. London-United Kingdom(UK): Cambridge University Press.*
- Kiswara W. 19%. *Inventory of Seagrass in Kuta and Gerupuk Bays, Lombok-Indonesia. Di dalam: Seagrass Biology: Proceedings of an International Workshop. Rottness Island, Western Australia. 25-29 January 1996.p 27-32.*
- Kiswara W, M. Hutomo. 1985. *Habitat dan Sebaran Geografik Lamun. Oseana Volume X. Nomor 1 : 25 - 30.*
- Latuconsina, H. 2011. *Komposisi Jenis Dan Struktur Komunitas Ikan Padang Lamun Di Perairan Pantai Lateri Teluk Ambon Dalam. Jumal Ilmiah Agribisnis dan Perikanan (agrikon UMMU-Temate) Volume 4 & Hsi 1: 30 - 38*



Odum EP. 1983. *Basic Ecology*. Aorida USA: W.B. Saunders Company

Rappe RA. 2010. *JurnallmudanTeknologiKelautanTropis*, Vol. 2, No. 2: 62-73

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