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# LAMPIRAN

**Lampiran 1** Data Makrozoobentos di Pulau Barrang Lompo

## DAFTAR SPESIES MAKROZOOBENTOS YANG DITEMUKAN DI PULAU BARRANG LOMPO, KOTA MAKASSAR

| NO | TAXONOMY GROUP | AUTHOR | FAMILIA | ORDO | SUB-CLASSIS | CLASSIS | PHYLUM |
|---|---|---|---|---|---|---|---|
| 1 | *Pseudovertagus aluco* | Linnaeus, 1758 | Cerithiidae | Caenogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 2 | *Clypeomorus concisus* | Hombron & Jacquinot, 1848 | Cerithiidae | Caenogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 3 | *Clypeomorus petrosa* | W. Wood, 1828 | Cerithiidae | Caenogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 4 | *Clypeomorus coralium* | Kiener, 1841 | Cerithiidae | Caenogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 5 | *Rhinoclavis aspera* | Linnaeus, 1758 | Cerithiidae | Caenogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 6 | *Rhinoclavis vertagus* | Linnaeus, 1758 | Cerithiidae | Caenogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 7 | *Euplica scripta* | Lamarck, 1822 | Columbellidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 8 | *Euplica varians* | G. B. Sowerby I, 1832 | Columbellidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 9 | *Euplica* sp. | Dall, 1889 | Columbellidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 10 | *Hebra subspinosa* | Lamarck, 1822 | Nassariidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 11 | *Nassarius pullus* | Linnaeus, 1758 | Nassariidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 12 | *Cymbiola vespertilio* | Linnaeus, 1758 | Volutidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 13 | *Morula granulata* | Duclos, 1832 | Muricidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 14 | *Hexaplex stainforthi* | Reeve, 1843 | Muricidae | Neogastropoda | Caenogastropoda | Gastropoda | Mollusca |
| 15 | *Cypraea moneta* | Linnaeus, 1758 | Cypraeidea | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 16 | *Cypraea annulus* | Linnaeus, 1758 | Cypraeidea | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 17 | *Cypraea arabica* | Linnaeus, 1758 | Cypraeidea | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 18 | *Polinices sebae* | Recluz, 1844 | Naticidae | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 19 | *Polinices melanostromus* | Gmelin, 1791 | Naticidae | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 20 | *Natica* sp. | Scopoli, 1777 | Naticidae | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 21 | *Melanostomus mammilla* | Linnaeus, 1758 | Naticidae | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 22 | *Canarium urceus* | Linnaeus, 1758 | Strombidae | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 23 | *Lambis lambis* | Linnaeus, 1758 | Strombidae | Littorinimorpha | Caenogastropoda | Gastropoda | Mollusca |
| 24 | *Dolabella auricularia* | Lightfoot, 1786 | Aplysiidae | Aplysiida | Heterobranchia | Gastropoda | Mollusca |
| 25 | *Nudibranchia* sp. | Cuvier, 1817 | - | Nudibranchia | Heterobranchia | Gastropoda | Mollusca |
| 26 | *Amphidromus maculatus* | Linnaeus, 1758 | Camaenidae | Stylommatophora | Heterobranchia | Gastropoda | Mollusca |
| 27 | *Pyramidella acus* | Gmelin, 1791 | Pyramidellidae | - | Heterobranchia | Gastropoda | Mollusca |
| 28 | *Trochus niloticus* | Linnaeus, 1758 | Trochidae | Trochida | Vetigastropoda | Gastropoda | Mollusca |
| 29 | *Tectus Pyramis* | Born, 1778 | Tegulidae | Trochida | Vetigastropoda | Gastropoda | Mollusca |

| NO | TAXONOMY GROUP | AUTHOR | FAMILIA | ORDO | SUB-CLASSIS | CLASSIS | PHYLUM |
|---|---|---|---|---|---|---|---|
| 30 | *Neritodryas dubia* | Gmelin, 1791 | Neritidae | Cycloneritida | Neritimorpha | Gastropoda | Mollusca |
| 31 | *Neritodryas subsulcata* | G. B. Sowerby I, 1836 | Neritidae | Cycloneritida | Neritimorpha | Gastropoda | Mollusca |
| 32 | *Pictonetina oualaniensis* | Lesson, 1831 | Neritidae | Cycloneritida | Neritimorpha | Gastropoda | Mollusca |
| 33 | *Pinctada margaritifera* | Linnaeus, 1758 | Margaritidae | Ostreida | Autobranchia | Bivalvia | Mollusca |
| 34 | *Isognomon isognomon* | Linnaeus, 1758 | Isognomonidae | Ostreida | Autobranchia | Bivalvia | Mollusca |
| 35 | *Synapta maculata* | Chamisso & Eysenhardt, 1821 | Synaptidae | Apodida | Paractinopoda | Holothuroidea | Echinodermata |
| 36 | *Holothuria whitmaei* | Bell, 1887 | Holothuriidae | Holothuriida | Actinopoda | Holothuroidea | Echinodermata |
| 37 | *Holothuria* sp. | Linnaeus, 1767 | Holothuriidae | Holothuriida | Actinopoda | Holothuroidea | Echinodermata |
| 38 | *Holothuria impatiens* | Forsskal, 1775 | Holothuriidae | Holothuriida | Actinopoda | Holothuroidea | Echinodermata |
| 39 | *Holothuria atra* | Jaeger, 1833 | Holothuriidae | Holothuriida | Actinopoda | Holothuroidea | Echinodermata |
| 40 | *Bohadschia similis* | Semper, 1868 | Holothuriidae | Holothuriida | Actinopoda | Holothuroidea | Echinodermata |
| 41 | *Actynopyga echinites* | Jaeger, 1833 | Holothuriidae | Holothuriida | Actinopoda | Holothuroidea | Echinodermata |
| 42 | *Ophiomastix* sp. | Muller & Troschel, 1842 | Ophiocomidae | Ophiacanthida | Myophiuroidea | Ophiuroidea | Echinodermata |
| 43 | *Ophiocoma erinaceus* | Muller & Troschel, 1842 | Ophiocomidae | Ophiacanthida | Myophiuroidea | Ophiuroidea | Echinodermata |
| 44 | *Macrophiotrix belli* | Doderlein, 1896 | Ophiotrichidae | Amphilepidida | Myophiuroidea | Ophiuroidea | Echinodermata |
| 45 | *Ophiolepis superba* | H.L. Clark, 1915 | Ophiolepididae | Amphilepidida | Myophiuroidea | Ophiuroidea | Echinodermata |
| 46 | *Protoreaster nodosus* | Linnaeus, 1758 | Oreasteridae | Valvatida | - | Asteroidea | Echinodermata |
| 47 | *Archaster typicus* | Muller & Troschel, 1840 | Archasteridae | Valvatida | - | Asteroidea | Echinodermata |
| 48 | *Diadema setosum* | Leske, 1778 | Diadematidae | Diadematoida | Euechinoidea | Echinoidea | Echinodermata |
| 49 | *Diadema savignyi* | Audouin, 1809 | Diadematidae | Diadematoida | Euechinoidea | Echinoidea | Echinodermata |
| 50 | *Tripneustes gratilla* | Linnaeus, 1758 | Toxopneustidae | Camarodonta | Euechinoidea | Echinoidea | Echinodermata |
| 51 | *Clibanarius* sp. | Dana, 1852 | Diogenidae | Decapoda | Eumalacostraca | Malacostraca | Arthropoda |
| 52 | *Pilumnus vespertilio* | Fabricius, 1793 | Pilumnidae | Decapoda | Eumalacostraca | Malacostraca | Arthropoda |
| 53 | *Calappa hepatica* | Linnaeus, 1758 | Calappidae | Decapoda | Eumalacostraca | Malacostraca | Arthropoda |
| 54 | Asteroidea sp. | - | - | - | - | Asteroidea | Echinodermata |
| 55 | Brachyura sp. 1 | Latreille, 1802 | - | Decapoda | Eumalacostraca | Malacostraca | Arthropoda |
| 56 | Brachyura sp. 2 | Latreille, 1802 | - | Decapoda | Eumalacostraca | Malacostraca | Arthropoda |

**Lampiran 2** Komposisi Jenis Makrozoobentos di Pulau Barrang Lompo

| Taxonomy | Stasiun | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | INNER INSHORE | | | | | | | | | OUTER INSHORE | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **Kelas Gastropoda** | | | | | | | | | | | | | | | | | | |
| **Famili Cerithiidae** | | | | | | | | | | | | | | | | | | |
| *Pseudovertagus aluco* | 2 | 3 | 5 | 2 | 0 | 0 | 11 | 5 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| *Clypeomorus concisus* | 16 | 34 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 |
| *Clypeomorus petrosa* | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Clypeomorus coralium* | 0 | 0 | 17 | 142 | 36 | 103 | 181 | 19 | 4 | 0 | 1 | 0 | 185 | 83 | 5 | 0 | 0 | 2 |
| *Rhinoclavis aspera* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Rhinoclavis vertagus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Famili Columbellidae** | | | | | | | | | | | | | | | | | | |
| *Euplica scripta* | 11 | 1 | 21 | 33 | 37 | 21 | 8 | 22 | 8 | 0 | 0 | 0 | 4 | 3 | 0 | 8 | 0 | 4 |
| *Euplica varians* | 3 | 8 | 4 | 50 | 5 | 24 | 5 | 12 | 6 | 2 | 49 | 4 | 6 | 6 | 0 | 4 | 11 | 5 |
| *Euplica* sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Nassariidae** | | | | | | | | | | | | | | | | | | |
| *Hebra subspinosa* | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| *Nassarius pullus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Volutidae** | | | | | | | | | | | | | | | | | | |
| *Cymbiola vespertilio* | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| **Famili Muricidae** | | | | | | | | | | | | | | | | | | |
| *Morula granulate* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Hexaplex stainforthi* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Cypraeidea** | | | | | | | | | | | | | | | | | | |
| *Cypraea moneta* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Cypraea annulus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Cypraea arabica* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **Famili Naticidae** | | | | | | | | | | | | | | | | | | |
| *Polinices sebae* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Melanostomus melanostromus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Natica* sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Polinices mammilla* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Strombidae** | | | | | | | | | | | | | | | | | | |
| *Canarium urceus* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Lambis lambis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Aplysiidae** | | | | | | | | | | | | | | | | | | |
| *Dolabella auricularia* | 1 | 4 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 4 | 1 | 1 | 3 | 0 | 1 | 4 | 0 | 0 |
| **Famili Nudibranchia** | | | | | | | | | | | | | | | | | | |
| *Nudibranchia* sp. | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **Famili Camaenidae** | | | | | | | | | | | | | | | | | | |
| *Amphidromus maculatus* | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Pyramidellidae** | | | | | | | | | | | | | | | | | | |
| *Pyramidella acus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Trochidae** | | | | | | | | | | | | | | | | | | |
| *Trochus niloticus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **Famili Tegulidae** | | | | | | | | | | | | | | | | | | |
| *Tectus Pyramis* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Neritidae** | | | | | | | | | | | | | | | | | | |
| *Neritodryas dubia* | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Neritodryas subsulcata* | 0 | 0 | 0 | 3 | 0 | 0 | 48 | 33 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pictonetina oualaniensis* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Kelas Bivalvia** | | | | | | | | | | | | | | | | | | |
| **Famili Margaritidae** | | | | | | | | | | | | | | | | | | |
| *Pinctada margaritifera* | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Isognomonidae** | | | | | | | | | | | | | | | | | | |
| *Isognomon isognomon* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Kelas Holothuridea** | | | | | | | | | | | | | | | | | | |
| **Famili Synaptidae** | | | | | | | | | | | | | | | | | | |
| *Synapta maculate* | 2 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **Famili Holothuriidae** | | | | | | | | | | | | | | | | | | |
| *Holothuria whitmaei* | 1 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Holothuria* sp. | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| *Holothuria impatiens* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 |
| *Holothuria atra* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| *Bohadschia similis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| *Actynopyga echinites* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Kelas Ophioroidea** | | | | | | | | | | | | | | | | | | |
| **Famili Ophiocomidae** | | | | | | | | | | | | | | | | | | |
| *Ophiomastix* sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| *Ophiocoma erinaceus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Famili Ophiotrichidae** | | | | | | | | | | | | | | | | | | |
| *Macrophiotrix belli* | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Famili Ophiolepididae** | | | | | | | | | | | | | | | | | | |
| *Ophiolepis superba* | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 1 | 0 | 1 |
| **Kelas Asteroidea** | | | | | | | | | | | | | | | | | | |
| **Famili Oreasteridae** | | | | | | | | | | | | | | | | | | |
| *Protoreaster nodosus* | 3 | 2 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 3 | 1 | 1 |
| **Famili Archasteridae** | | | | | | | | | | | | | | | | | | |
| *Archaster typicus* | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 7 | 1 | 3 | 0 | 1 | 0 | 0 | 2 | 0 | 1 |
| **Kelas Echinoidea** | | | | | | | | | | | | | | | | | | |
| **Famili Diadematidae** | | | | | | | | | | | | | | | | | | |
| *Diadema setosum* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 1 | 15 | 27 | 0 | 7 | 17 |
| *Diadema savignyi* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **Famili Toxopneustidae** | | | | | | | | | | | | | | | | | | |
| *Tripneustes gratilla* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Kelas Malacostraca** | | | | | | | | | | | | | | | | | | |
| **Famili Diogenidae** | | | | | | | | | | | | | | | | | | |
| *Clibanarius* sp. | 129 | 0 | 0 | 13 | 0 | 2 | 15 | 13 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 5 | 2 |
| **Famili Pilumnidae** | | | | | | | | | | | | | | | | | | |
| *Pilumnus vespertilio* | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| **Famili Calappidae** | | | | | | | | | | | | | | | | | | |
| *Calappa hepatica* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Tidak Teridentifikasi** | | | | | | | | | | | | | | | | | | |
| Asteroidea sp. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Brachyura sp. 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Brachyura sp. 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **Jumlah Individu** | 169 | 65 | 69 | 245 | 87 | 155 | 273 | 153 | 64 | 35 | 98 | 25 | 203 | 113 | 33 | 28 | 48 | 46 |

**Lampiran 3** Frekuensi Kemunculan

| Spesies | Nilai | Persentase | Spesies | Nilai | Persentase |
|---|---|---|---|---|---|
| *Pseudovertagus aluco* | 0,018334 | 2% | *Tectus Pyramis* | 0,001572 | 0% |
| *Clypeomorus concisus* | 0,038764 | 4% | *Neritodryas dubia* | 0,001572 | 0% |
| *Clypeomorus petrosa* | 0,001572 | 0% | *Neritodryas subsulcata* | 0,047145 | 5% |
| *Clypeomorus coralium* | 0,407543 | 41% | *Pictonetina oualaniensis* | 0,000524 | 0% |

| | | | | | |
|---|---|---|---|---|---|
| *Rhinoclavis aspera* | 0,001572 | 0% | *Pinctada margaritifera* | 0,000524 | 0% |
| *Rhinoclavis vertagus* | 0,000524 | 0% | *Isognomon isognomon* | 0,001048 | 0% |
| *Euplica scripta* | 0,094814 | 9% | *Synapta maculata* | 0,005762 | 1% |
| *Euplica varians* | 0,106862 | 11% | *Holothuria whitmaei* | 0,004191 | 0% |
| *Euplica* sp. | 0,014667 | 1% | *Holothuria* sp. | 0,004715 | 0% |
| *Hebra subspinosa* | 0,003667 | 0% | *Holothuria impatiens* | 0,002095 | 0% |
| *Nassarius pullus* | 0,001572 | 0% | *Holothuria atra* | 0,000524 | 0% |
| *Cymbiola vespertilio* | 0,005238 | 1% | *Bohadschia similis* | 0,000524 | 0% |
| *Morula granulata* | 0,002095 | 0% | *Actynopyga echinites* | 0,000524 | 0% |
| *Hexaplex stainforthi* | 0,001048 | 0% | *Ophiomastix* sp. | 0,005238 | 1% |
| *Cypraea moneta* | 0,003143 | 0% | *Ophiocoma erinaceus* | 0,002619 | 0% |
| *Cypraea annulus* | 0,005762 | 1% | *Macrophiotrix belli* | 0,003143 | 0% |
| *Cypraea arabica* | 0,009953 | 1% | *Ophiolepis superba* | 0,010477 | 1% |
| *Polinices sebae* | 0,001048 | 0% | *Protoreaster nodosus* | 0,011524 | 1% |
| *Polinices melanostromus* | 0,000524 | 0% | *Archaster typicus* | 0,010477 | 1% |
| *Natica* sp. | 0,000524 | 0% | *Diadema setosum* | 0,040335 | 4% |
| *Melanostomus mammilla* | 0,000524 | 0% | *Diadema savignyi* | 0,000524 | 0% |
| *Canarium urceus* | 0,003143 | 0% | *Tripneustes gratilla* | 0,001572 | 0% |
| *Lambis lambis* | 0,000524 | 0% | *Clibanarius* sp. | 0,095862 | 10% |
| *Dolabella auricularia* | 0,012572 | 1% | *Pilumnus vespertilio* | 0,005238 | 1% |
| *Nudibranchia* sp. | 0,001572 | 0% | *Calappa hepatica* | 0,000524 | 0% |
| *Amphidromus maculatus* | 0,000524 | 0% | Asteroidea sp. | 0,001048 | 0% |
| *Pyramidella acus* | 0,000524 | 0% | Brachyura sp. 1 | 0,000524 | 0% |
| *Trochus niloticus* | 0,001048 | 0% | Brachyura sp. 2 | 0,000524 | 0% |

**Lampiran 4** Hasil OneWay Anova

a. Kerapatan Lamun

| 1way ANOVA | |
|---|---|
| Table Analyzed | Kerapat |
| | |
| Kruskal-Wallis test | |
| P value | 0.4756 |
| Exact or approximate P value? | Gaussian Ap |
| P value summary | ns |
| Do the medians vary signif. (P < 0.05) | No |
| Number of groups | 6 |
| Kruskal-Wallis statistic | 4.532 |
| | |

b. Tutupan Lamun

| 1way ANOVA | |
|---|---|
| Table Analyzed | Tutupan |
| | |
| Kruskal-Wallis test | |
| P value | 0.5203 |
| Exact or approximate P value? | Gaussian Ap |
| P value summary | ns |
| Do the medians vary signif. (P < 0.05) | No |
| Number of groups | 6 |
| Kruskal-Wallis statistic | 4.205 |
| | |

c. Indeks Keanekaragaman

| 1way ANOVA | |
|---|---|
| Table Analyzed | Keaneka |
| | |
| Kruskal-Wallis test | |
| P value | 0.6982 |
| Exact or approximate P value? | Gaussian Approximation |
| P value summary | ns |
| Do the medians vary signif. (P < 0.05) | No |
| Number of groups | 6 |
| Kruskal-Wallis statistic | 3.012 |
| | |

d. Indeks Keseragaman

| 1way ANOVA | |
|---|---|
| Table Analyzed | Kesera |
| | |
| Kruskal-Wallis test | |
| P value | 0.6018 |
| Exact or approximate P value? | Gaussian Approximation |
| P value summary | ns |
| Do the medians vary signif. (P < 0.05) | No |
| Number of groups | 6 |
| Kruskal-Wallis statistic | 3.643 |
| | |

e. Indeks Dominansi

| 1way ANOVA | |
|---|---|
| Table Analyzed | Dominansi |
| | |
| Kruskal-Wallis test | |
| P value | 0.7270 |
| Exact or approximate P value? | Gaussian Approximation |
| P value summary | ns |
| Do the medians vary signif. (P < 0.05) | No |
| Number of groups | 6 |
| Kruskal-Wallis statistic | 2.825 |
| | |

f. Indeks Kekayaan Jenis Margalef

| 1way ANOVA | | | | |
|---|---|---|---|---|
| Table Analyzed | Data 1 | | | |
| | | | | |
| One-way analysis of variance | | | | |
| P value | 0.7272 | | | |
| P value summary | ns | | | |
| Are means signif. different? (P < 0.05) | No | | | |
| Number of groups | 6 | | | |
| F | 0.5625 | | | |
| R square | 0.1899 | | | |
| | | | | |
| ANOVA Table | SS | df | MS | |
| Treatment (between columns) | 5.635 | 5 | 1.127 | |
| Residual (within columns) | 24.05 | 12 | 2.004 | |
| Total | 29.68 | 17 | | |

g. Kepadatan Epifauna

| 1way ANOVA<br>Tabular results | | | | | | |
|---|---|---|---|---|---|---|
| Table Analyzed | EPIFAUNAL | | | | | |
| | | | | | | |
| One-way analysis of variance | | | | | | |
| P value | 0.0219 | | | | | |
| P value summary | * | | | | | |
| Are means signif. different? (P < 0.05) | Yes | | | | | |
| Number of groups | 6 | | | | | |
| F | 4.048 | | | | | |
| R square | 0.6278 | | | | | |
| | | | | | | |
| ANOVA Table | SS | df | MS | | | |
| Treatment (between columns) | 63070 | 5 | 12614 | | | |
| Residual (within columns) | 37395 | 12 | 3116 | | | |
| Total | 100465 | 17 | | | | |
| | | | | | | |
| Tukey's Multiple Comparison Test | Mean Diff. | q | Significant? F | Summary | 95% CI of dif | |
| 10m vs 50m | 127.3 | 3.951 | No | ns | -25.79 to 280 | |
| 10m vs 90m | 133.0 | 4.127 | No | ns | -20.12 to 286 | |
| 10m vs 130m | 140.3 | 4.354 | No | ns | -12.79 to 293 | |
| 10m vs 170m | 142.7 | 4.427 | No | ns | -10.46 to 295 | |
| 10m vs 210m | 194.3 | 6.030 | Yes | * | 41.21 to 347. | |
| 50m vs 90m | 5.667 | 0.1758 | No | ns | -147.5 to 158 | |
| 50m vs 130m | 13.00 | 0.4034 | No | ns | -140.1 to 166 | |
| 50m vs 170m | 15.33 | 0.4758 | No | ns | -137.8 to 168 | |
| 50m vs 210m | 67.00 | 2.079 | No | ns | -86.12 to 220 | |
| 90m vs 130m | 7.333 | 0.2275 | No | ns | -145.8 to 160 | |
| 90m vs 170m | 9.667 | 0.2999 | No | ns | -143.5 to 162 | |
| 90m vs 210m | 61.33 | 1.903 | No | ns | -91.79 to 214 | |
| 130m vs 170m | 2.333 | 0.07240 | No | ns | -150.8 to 155 | |
| 130m vs 210m | 54.00 | 1.675 | No | ns | -99.12 to 207 | |
| 170m vs 210m | 51.67 | 1.603 | No | ns | -101.5 to 204 | |
| | | | | | | |

**Lampiran 5** Uji Korelasi Kerapatan Lamun dan Persentase Tutupan Lamun terhadap Indeks Keanekaragaman, Keseragaman, Kekayaan Jenis Margalef dan Kepadatan Epifauna

a. Kerapatan Lamun dengan Keanekaragaman

| Correlation | A<br>Keanekaragaman |
|---|---|
| | Y |
| 1 Number of XY Pairs | 18 |
| 2 Pearson r | 0.2780 |
| 3 95% confidence interval | -0.2172 to 0.6594 |
| 4 P value (two-tailed) | 0.2641 |
| 5 P value summary | ns |
| 6 Is the correlation significant? (alpha=0.05) | No |
| 7 R square | 0.07727 |

b. Kerapatan Lamun dengan Keseragaman

| Correlation | A<br>Keseragaman |
|---|---|
| | Y |
| 1 Number of XY Pairs | 18 |
| 2 Pearson r | 0.2589 |
| 3 95% confidence interval | -0.2367 to 0.6476 |
| 4 P value (two-tailed) | 0.2996 |
| 5 P value summary | ns |
| 6 Is the correlation significant? (alpha=0.05) | No |
| 7 R square | 0.06702 |

c. Kerapatan Lamun dengan Kekayaan Jenis Margalef

| Correlation | A<br>Margalaef |
|---|---|
| | Y |
| 1 Number of XY Pairs | 18 |
| 2 Pearson r | 0.2483 |
| 3 95% confidence interval | -0.2474 to 0.6409 |
| 4 P value (two-tailed) | 0.3205 |
| 5 P value summary | ns |
| 6 Is the correlation significant? (alpha=0.05) | No |
| 7 R square | 0.06164 |

d. Kerapatan Lamun dengan Kepadatan Epifauna

| Correlation | A |
|---|---|
| | Kepadatan |
| | Y |
| 1 Number of XY Pairs | 18 |
| 2 Pearson r | -0.1283 |
| 3 95% confidence interval | -0.5616 to 0.3603 |
| 4 P value (two-tailed) | 0.6119 |
| 5 P value summary | ns |
| 6 Is the correlation significant? (alpha=0.05) | No |
| 7 R square | 0.01646 |
| 8 | |

e. Tutupan Lamun dengan Keanekaragaman

| Correlation | A |
|---|---|
| | keanekaragaman Makrozoobentos |
| | Y |
| 1 Number of XY Pairs | 18 |
| 2 Pearson r | 0.2305 |
| 3 95% confidence interval | -0.2649 to 0.6297 |
| 4 P value (two-tailed) | 0.3574 |
| 5 P value summary | ns |
| 6 Is the correlation significant? (alpha=0.05 | No |
| 7 R square | 0.05315 |
| 8 | |

f. Tutupan Lamun dengan Keseragaman

| Correlation | A |
|---|---|
| | Keseragaman |
| | Y |
| 1 Number of XY Pairs | 18 |
| 2 Pearson r | 0.2610 |
| 3 95% confidence interval | -0.2345 to 0.6489 |
| 4 P value (two-tailed) | 0.2955 |
| 5 P value summary | ns |
| 6 Is the correlation significant? (alpha=0.05) | No |
| 7 R square | 0.06813 |
| 8 | |

g. Tutupan Lamun dengan Kekayaan Jenis Margalef

| Correlation | A |
|---|---|
| | margalaef |
| | Y |
| 1 Number of XY Pairs | 18 |
| 2 Pearson r | 0.1410 |
| 3 95% confidence interval | -0.3489 to 0.5704 |
| 4 P value (two-tailed) | 0.5768 |
| 5 P value summary | ns |
| 6 Is the correlation significant? (alpha=0.05 | No |
| 7 R square | 0.01988 |

h. Tutupan Lamun dengan Kepadatan Epifauna

| | Correlation | A<br>Kepadatan |
|---|---|---|
| | | Y |
| 1 | Number of XY Pairs | 18 |
| 2 | Pearson r | -0.07487 |
| 3 | 95% confidence interval | -0.5235 to 0.4063 |
| 4 | P value (two-tailed) | 0.7678 |
| 5 | P value summary | ns |
| 6 | Is the correlation significant? (alpha=0.05) | No |
| 7 | R square | 0.005605 |
| 8 | | |

**Lampiran 6** Foto Sampel Makrozoobentos

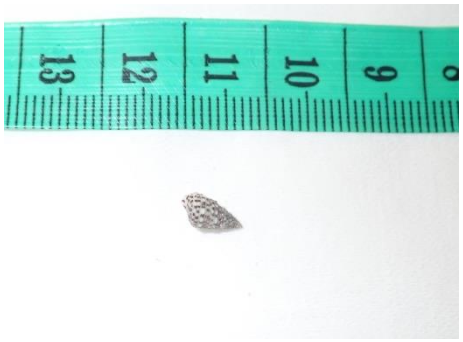
1. *Pseudovertagus aluco* (Pa)

2. *Synapta maculata* (Sm)

3. *Holothuria whitmaei* (Hw)

4. *Protoreaser nodusus* (Pn)

5. *Clypeomorus concisus* (Cc)



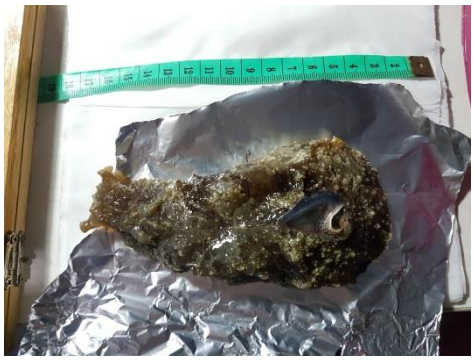
6. *Euplica scripta* (Es)

7. *Clibanarius* sp.

8. *Euplica varians* (Ev)

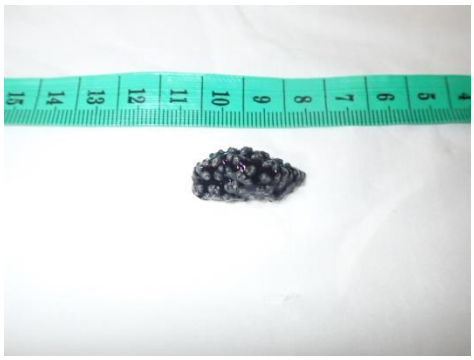
9. *Cypraea moneta* (Cm)

10. *Dolabella auricularia* (Da)



11. *Archaster typicus* (At)

12. *Nudibranchia* sp.



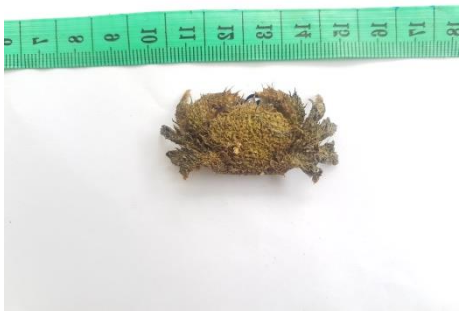
13. *Holothuria* sp.

14. *Amphidromous maculatus* (Am)

15. *Pinctada margaritifera* sp.

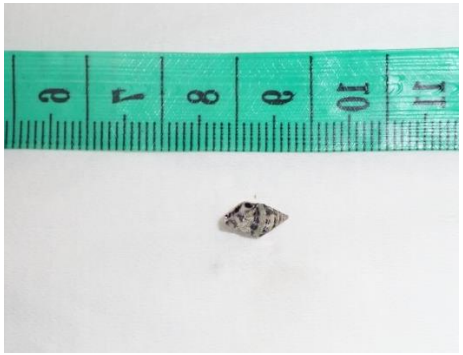
16. *Macrophiotix belii* (Mb)

17. *Pilumnus vespertilio* (Pv)



18. *Cymbiola vespertilio* (Cv)

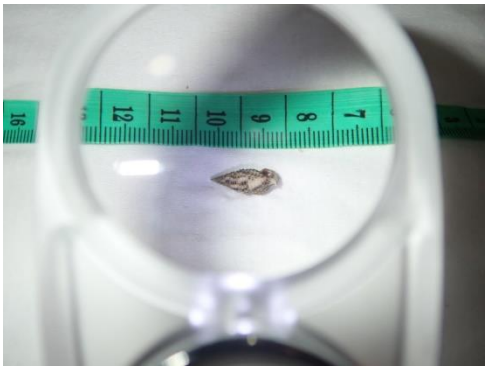
19. *Morula granulata* (Mg)



20. *Hebra subspinosa* (Hs)

21. *Clypeomorus coralium* (Cco)

22. *Clypeomorus petrosa* (Cp)



23. *Rhinoclavis aspera* (Ra)

24. *Tectus pyramis* (Tp)

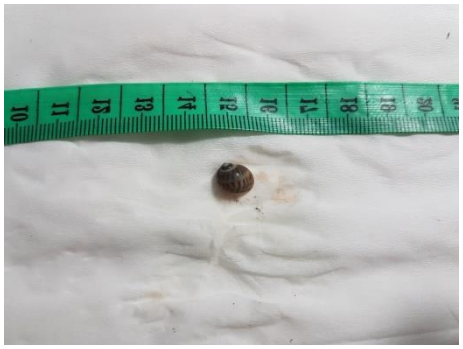
25. *Ophiomastix* sp.

26. *Cypraea annulus* (Ca)

27. *Cypraea arabica* (Car)

28. *Isognomon isognomon* (Ii)

29. *Polinices sebae* (Ps)



30. *Diadema savignyi* (Dsa)

31. *Holothuria lmpatiens* (Hi)

32. *Tripneustes gratilla* (Tg)

33. *Ophiolepis superba* (Os)

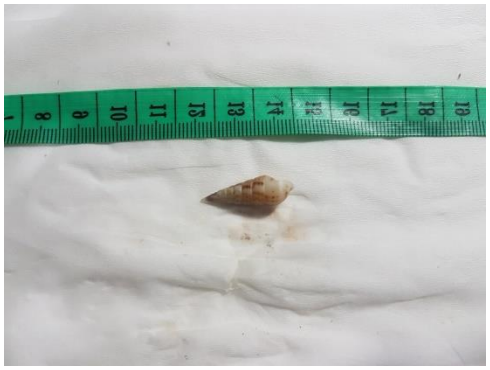
34. *Nassarius pullus* (Np)

35. *Ophiocoma erinaceus* (Oe)

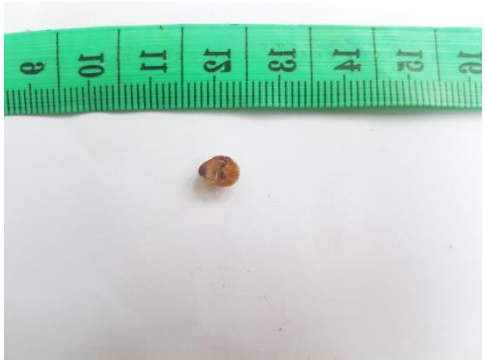
36. *Calappa hepatica* (Ch)

37. *Actynopyga echinithes* (Ae)

38. *Pyramidella acus* (Pac)



39. *Neritodryas dubia* (Nd)



40. *Neritodryas subsulcata* (Ns)

41. *Polinices melanostromus* (Pme)

42. *Natica* sp.

43. *Rhinoclavis vertagus* (Rv)

44. *Pictorina oualaniensis* (Po)

45. *Canarium urceus* (Cu)

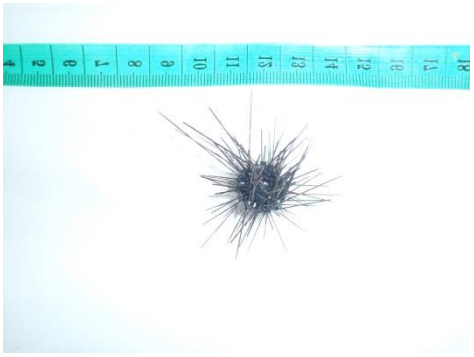
46. *Hexaplex stainforthi* (Hst)

47. *Polinices mammilla* (Pma)

48. *Trochus niloticus* (Tn)

49. *Lambis lambis* (Ll)

50. *Diadema setosum* (Ds)



51. *Holothruia atra* (Ha)

52. *Bohadschia simili* (Bs)

53. *Euplica* sp.

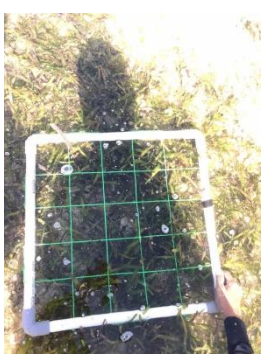
54. Asteroidea sp.

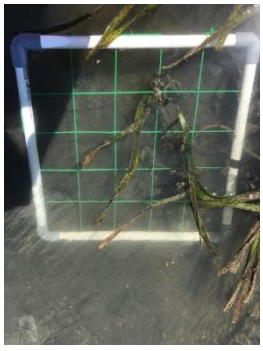
55. Brachyura sp. 1

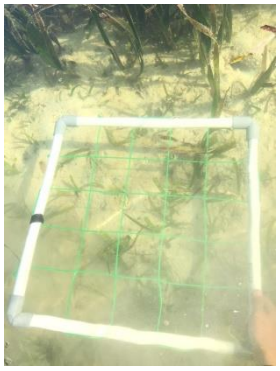
56. Brachyura sp. 2

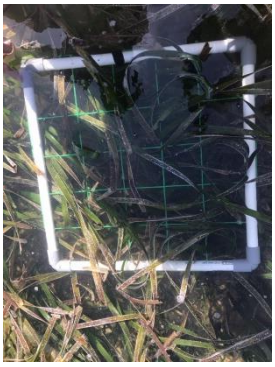
**Lampiran 7** Tutupan Lamun McKenzie

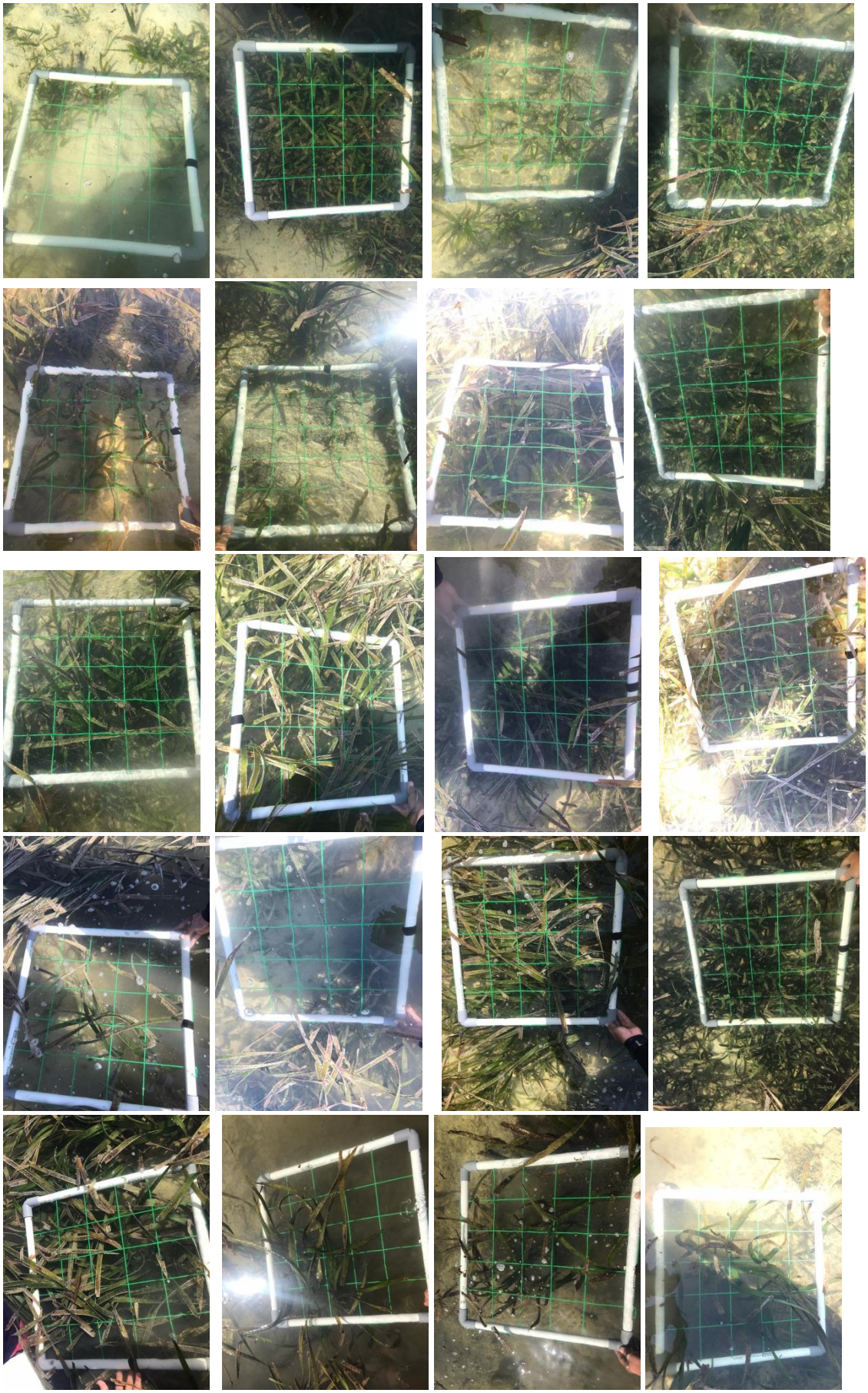
1. Tutupan Lamun *inner inshore*

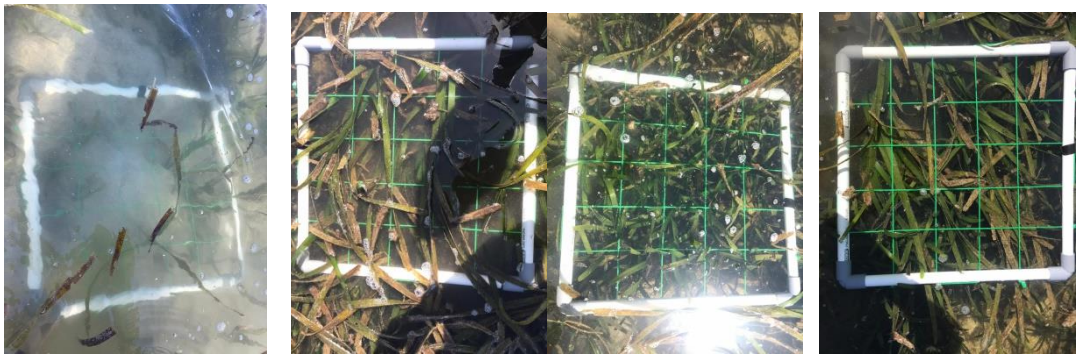


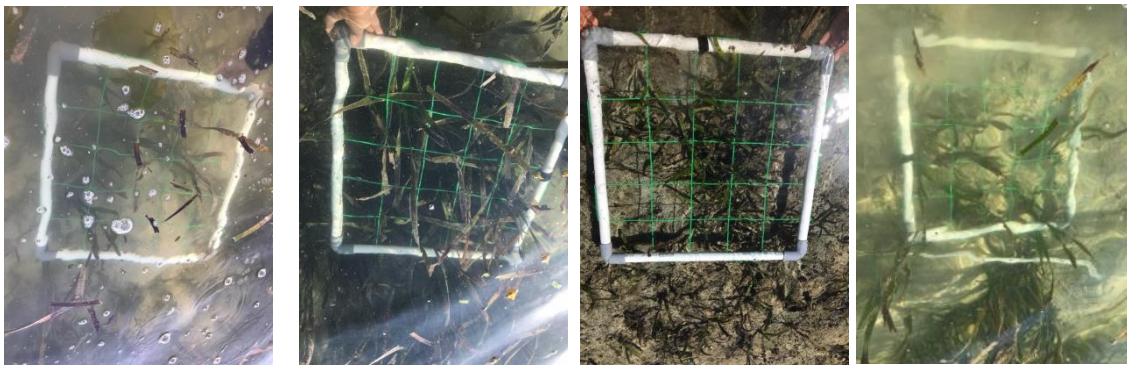





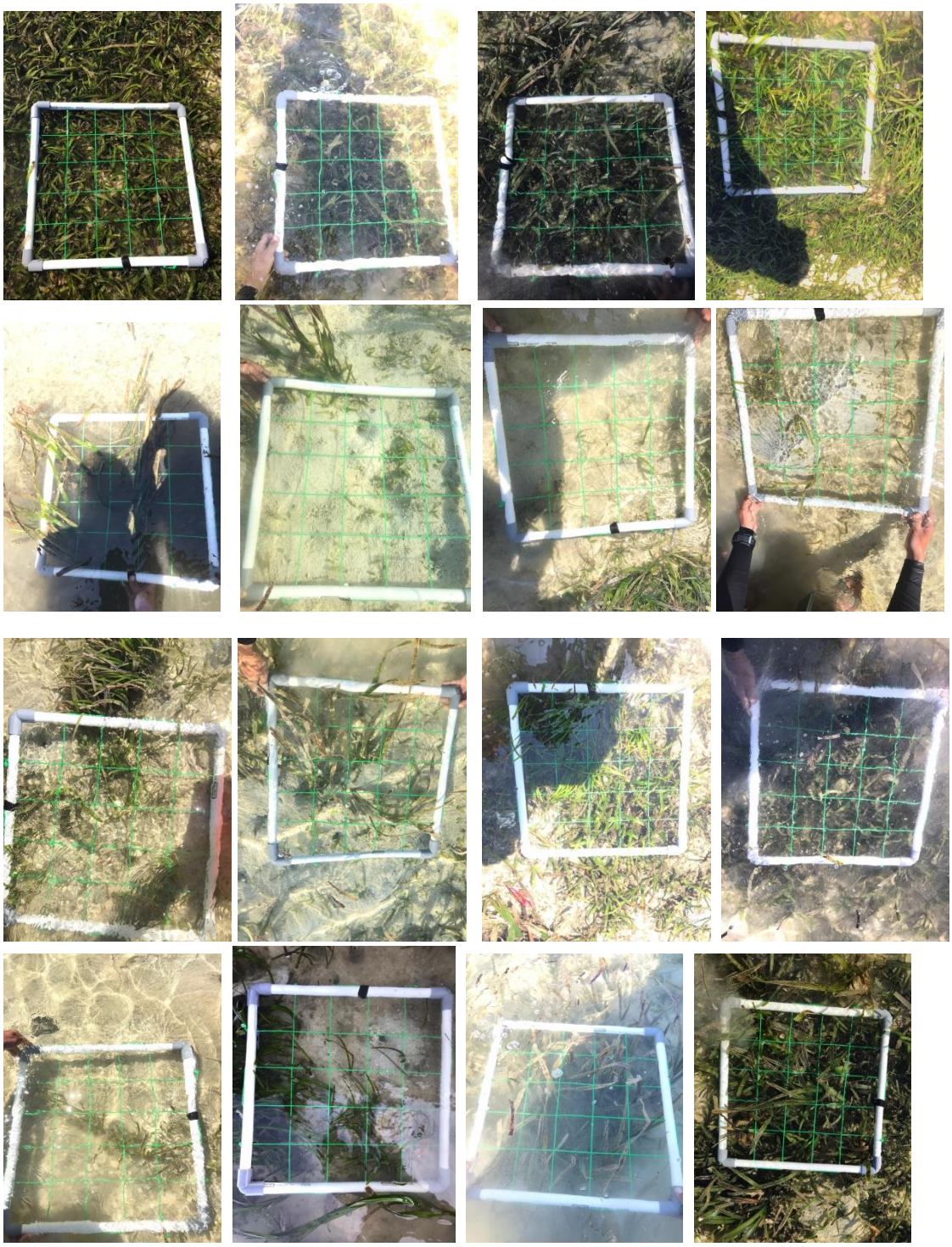


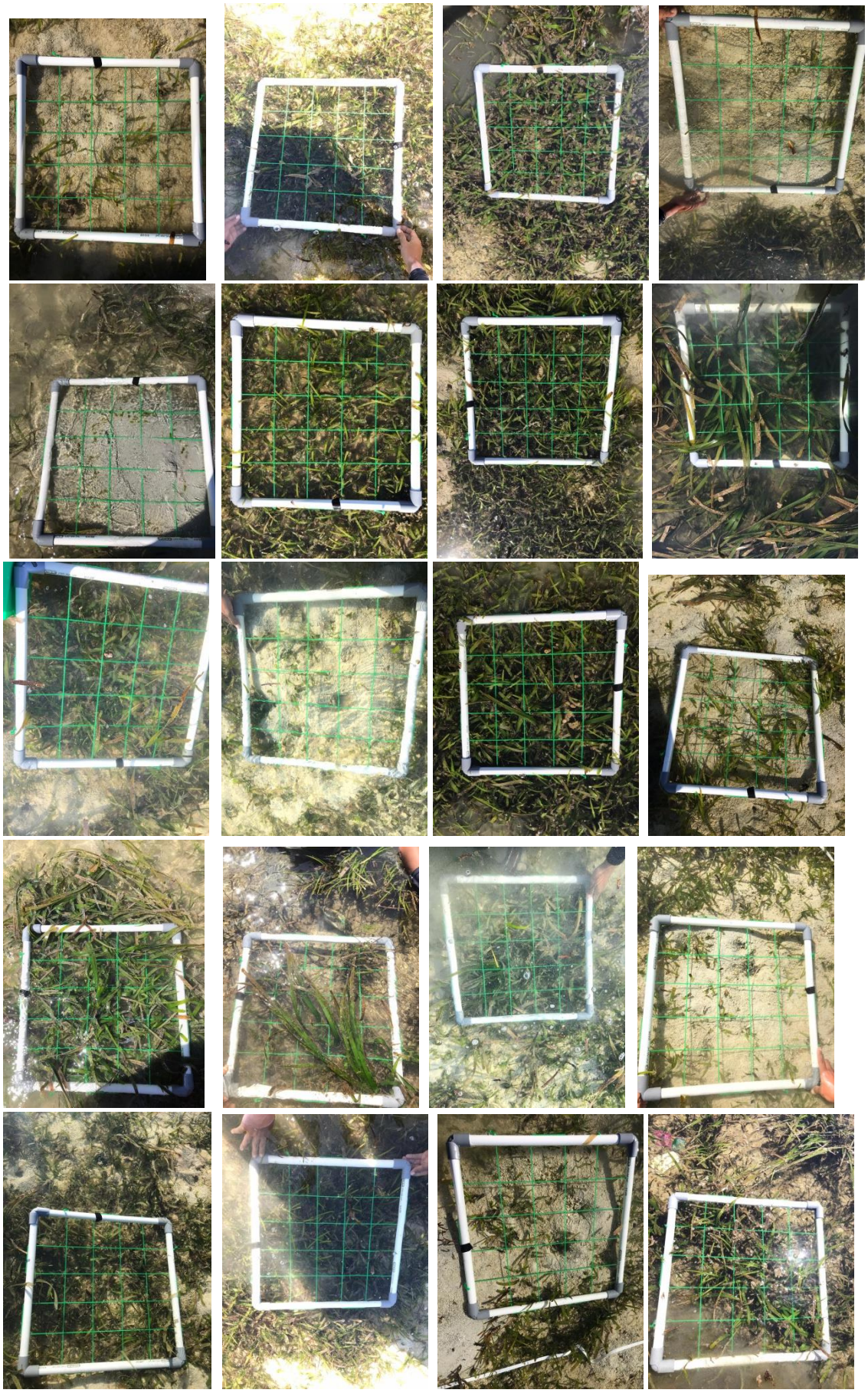


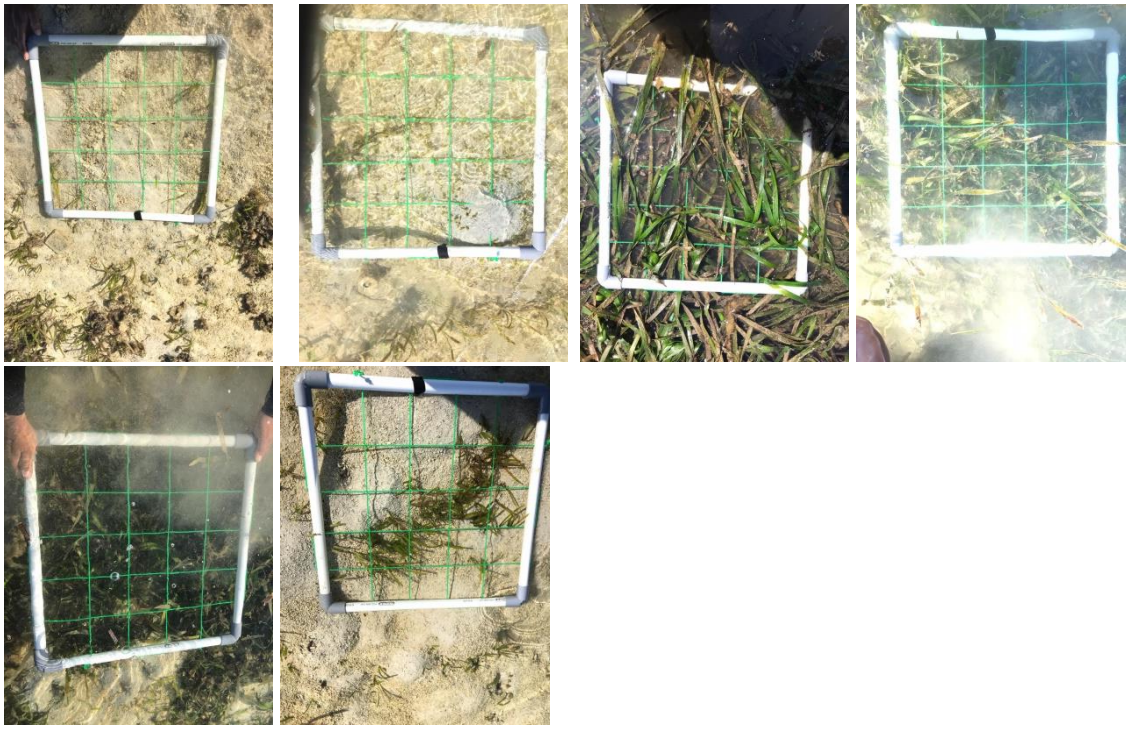





2. Tutupan Lamun *outer inshore*







**Lampiran 8** Pengambilan Sampel

1. Penentuan titik lokasi penelitian dan penarikan garis transek

2. Pengamatan Makrozoobentos


3. Aktifitas masyarakat yang mencari organisme yang bernilai ekonomis