Table S5. Similarity percentage (SIMPER) analysis based on a) species, b) family and c) trophic position indicating the variable that is contributing the highest percentage at each depth (10-60 m). Contributions up to 75% are reported. Abbreviations: Av.Abund, average abundance; Av.Sim, average similiary; Sim/SD, similarity standard deviation; Contrib%, percent contribution; Cum.%, cummularive contribution.

a)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *10 m* |  |  |  |  |  |
| Average similarity: 31.73 |  |  |  |  |  |
|  |  |  |  |  |  |
| Species | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| *Ctenochaetus striatus* | 3.14 | 11.29 | 3.33 | 35.57 | 35.57 |
| *Acanthurus nigricans* | 1.63 | 4.70 | 1.12 | 14.80 | 50.37 |
| *Chromis margaritifer* | 1.46 | 2.45 | 0.61 | 7.71 | 58.08 |
| *Myripristes kuntee* | 0.90 | 1.64 | 0.50 | 5.16 | 63.24 |
| *Thalassoma lutescens* | 0.84 | 1.59 | 0.63 | 5.01 | 68.25 |
| *Labroides dimidiatus* | 0.83 | 1.44 | 0.66 | 4.54 | 72.78 |
| *Plectroglyphidodon lacrymatus* | 0.88 | 1.05 | 0.53 | 3.31 | 76.1 |
| *20 m* |  |  |  |  |  |
| Average similarity: 26.13 |  |  |  |  |  |
|  |  |  |  |  |  |
| Species | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| *Ctenochaetus striatus* | 2.39 | 10.76 | 1.83 | 41.18 | 41.18 |
| *Myripristes kuntee* | 1.13 | 3.00 | 0.71 | 11.47 | 52.64 |
| *Zebrasoma scopas* | 1.07 | 2.47 | 0.65 | 9.46 | 62.1 |
| *Acanthurus nigricans* | 0.63 | 1.61 | 0.52 | 6.15 | 68.25 |
| *Chromis ternatensis* | 1.17 | 1.53 | 0.40 | 5.86 | 74.1 |
| *Chelinius fasciatus* | 0.60 | 1.29 | 0.53 | 4.94 | 79.05 |
| *30 m* |  |  |  |  |  |
| Average similarity: 18.20 |  |  |  |  |  |
|  |  |  |  |  |  |
| Species | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| *Chromis ternatensis* | 2.06 | 7.02 | 0.92 | 38.58 | 38.58 |
| *Ctenochaetus striatus* | 1.43 | 3.18 | 0.74 | 17.45 | 56.03 |
| *Chromis alpha* | 0.79 | 2.18 | 0.59 | 11.99 | 68.02 |
| *Meiacanthus atrodorsalis* | 0.74 | 1.50 | 0.50 | 8.27 | 76.28 |
| *40 m* |  |  |  |  |  |
| Average similarity: 25.89 |  |  |  |  |  |
|  |  |  |  |  |  |
| Species | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| *Chromis ternatensis* | 3.17 | 11.95 | 1.35 | 46.14 | 46.14 |
| *Chromis alpha* | 1.72 | 5.84 | 0.88 | 22.57 | 68.71 |
| *Ctenochaetus striatus* | 0.95 | 1.95 | 0.50 | 7.52 | 76.23 |
| *50 m* |  |  |  |  |  |
| Average similarity: 20.91 |  |  |  |  |  |
|  |  |  |  |  |  |
| Species | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| *Chromis ternatensis* | 2.84 | 7.60 | 0.79 | 36.33 | 36.33 |
| *Chromis alpha* | 1.57 | 3.28 | 0.55 | 15.68 | 52.01 |
| *Ctenochaetus striatus* | 0.85 | 1.67 | 0.51 | 8.00 | 60 |
| *Cephalopholis spiloparaea* | 0.64 | 1.45 | 0.51 | 6.93 | 66.93 |
| *Chelinius fasciatus* | 0.49 | 0.83 | 0.41 | 3.99 | 70.92 |
| *Centropyge multifasciatus* | 0.51 | 0.78 | 0.39 | 3.72 | 74.64 |
| *60 m* |  |  |  |  |  |
| Average similarity: 15.58 |  |  |  |  |  |
|  |  |  |  |  |  |
| Species | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| *Chromis ternatensis* | 1.42 | 2.38 | 0.41 | 15.29 | 15.29 |
| *Chromis alpha* | 0.99 | 2.36 | 0.63 | 15.14 | 30.43 |
| *Cephalopholis spiloparaea* | 0.62 | 1.29 | 0.40 | 8.28 | 38.71 |
| *Centropyge multicolor* | 0.51 | 0.94 | 0.42 | 6.02 | 44.73 |
| *Chromis acares* | 0.70 | 0.93 | 0.22 | 5.94 | 50.67 |
| *Labroides dimidiatus* | 0.48 | 0.90 | 0.41 | 5.78 | 56.45 |
| *Naso unicornis* | 0.65 | 0.89 | 0.29 | 5.68 | 62.13 |
| *Myripristes kuntee* | 0.58 | 0.83 | 0.30 | 5.30 | 67.44 |
| *Amblyglyphidodon aureus* | 0.45 | 0.62 | 0.31 | 3.99 | 71.43 |
| *Ctenochaetus striatus* | 0.47 | 0.46 | 0.21 | 2.95 | 77.65 |

b)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *10 m* |  |  |  |  |  |
| Average similarity: 60.84 |  |  |  |  |  |
|  |  |  |  |  |  |
| Families | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Acanthuridae | 4.01 | 21.25 | 3.64 | 34.93 | 34.93 |
| Pomacentridae | 3.23 | 13.58 | 1.87 | 22.32 | 57.25 |
| Labridae | 2.44 | 9.89 | 1.70 | 16.26 | 73.51 |
| Chaetodontidae | 1.54 | 6.72 | 1.80 | 11.05 | 84.56 |
| *20 m* |  |  |  |  |  |
| Average similarity: 53.79 |  |  |  |  |  |
|  |  |  |  |  |  |
| Families | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Acanthuridae | 3.36 | 21.91 | 2.34 | 40.72 | 40.72 |
| Pomacentridae | 2.64 | 12.79 | 1.68 | 23.78 | 64.5 |
| Labridae | 1.73 | 9.70 | 1.81 | 18.03 | 82.53 |
| *30 m* |  |  |  |  |  |
| Average similarity: 53.74 |  |  |  |  |  |
|  |  |  |  |  |  |
| Families | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Pomacentridae | 3.41 | 20.98 | 3.32 | 39.05 | 39.05 |
| Acanthuridae | 2.71 | 13.09 | 1.62 | 24.37 | 63.42 |
| Labridae | 2.22 | 10.24 | 1.61 | 19.06 | 82.47 |
| *40 m* |  |  |  |  |  |
| Average similarity: 46.31 |  |  |  |  |  |
|  |  |  |  |  |  |
| Families | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Pomacentridae | 4.00 | 23.6 | 1.83 | 50.96 | 50.96 |
| Acanthuridae | 1.63 | 8.12 | 1.22 | 17.53 | 68.49 |
| Serranidae | 1.68 | 4.76 | 0.57 | 10.28 | 78.77 |
| *50 m* |  |  |  |  |  |
| Average similarity: 50.95 |  |  |  |  |  |
|  |  |  |  |  |  |
| Families | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Pomacentridae | 4.30 | 22.42 | 3.26 | 44.00 | 44 |
| Pomacanthidae | 1.35 | 6.41 | 1.85 | 12.59 | 56.59 |
| Labridae | 1.31 | 5.56 | 1.26 | 10.92 | 67.51 |
| Serranidae | 2.03 | 5.25 | 1.22 | 10.29 | 77.8 |
| *60 m* |  |  |  |  |  |
| Average similarity: 45.62 |  |  |  |  |  |
|  |  |  |  |  |  |
| Families | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Pomacentridae | 3.05 | 17.86 | 2.32 | 39.15 | 39.15 |
| Acanthuridae | 1.67 | 7.25 | 0.98 | 15.90 | 55.05 |
| Labridae | 1.37 | 6.27 | 1.21 | 13.75 | 68.8 |
| Pomacanthidae | 0.94 | 4.29 | 1.04 | 9.39 | 78.19 |

c)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *10 m* |  |  |  |  |  |
| Average similarity: 74.57 | |  |  |  |  |
|  |  |  |  |  |  |
| Diet | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Herbivore | 4.94 | 29.09 | 4.60 | 39.01 | 39.01 |
| Planktivore | 3.62 | 19.94 | 3.31 | 26.74 | 65.75 |
| Mobile Invert Feeder | 2.39 | 11.71 | 1.92 | 15.71 | 81.45 |
| *20 m* |  |  |  |  |  |
| Average similarity: 67.74 | |  |  |  |  |
|  |  |  |  |  |  |
| Diet | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Herbivore | 3.99 | 30.67 | 2.37 | 45.28 | 45.28 |
| Planktivore | 2.77 | 17.63 | 1.81 | 26.02 | 71.3 |
| Mobile Invert Feeder | 1.69 | 11.26 | 2.02 | 16.63 | 87.93 |
| *30 m* |  |  |  |  |  |
| Average similarity: 63.70 | |  |  |  |  |
|  |  |  |  |  |  |
| Diet | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Herbivore | 3.32 | 23.92 | 2.99 | 37.55 | 37.55 |
| Planktivore | 3.81 | 23.82 | 1.92 | 37.40 | 74.95 |
| Mobile Invert Feeder | 1.90 | 9.10 | 1.26 | 14.29 | 89.24 |
| *40 m* |  |  |  |  |  |
| Average similarity: 61.77 | |  |  |  |  |
|  |  |  |  |  |  |
| Diet | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Planktivore | 4.75 | 31.96 | 2.59 | 51.74 | 51.74 |
| Herbivore | 2.19 | 13.64 | 1.68 | 22.08 | 73.82 |
| Mobile Invert Feeder | 1.26 | 7.31 | 0.99 | 11.84 | 85.66 |
| *50 m* |  |  |  |  |  |
| Average similarity: 67.75 | |  |  |  |  |
|  |  |  |  |  |  |
| Diet | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Planktivore | 5.68 | 32.42 | 3.77 | 47.84 | 47.84 |
| Herbivore | 2.17 | 13.39 | 2.11 | 19.76 | 67.6 |
| Mobile Invert Feeder | 1.83 | 10.61 | 1.77 | 15.66 | 83.27 |
| *60 m* |  |  |  |  |  |
| Average similarity: 67.18 | |  |  |  |  |
|  |  |  |  |  |  |
| Diet | Av.Abund | Av.Sim | Sim/SD | Contrib% | Cum.% |
| Planktivore | 4.50 | 37.25 | 3.07 | 55.45 | 55.45 |
| Mobile Invert Feeder | 2.46 | 19.15 | 1.83 | 28.51 | 83.96 |