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 |