

1 **S1 Table. Analysis of variance of significant models.**

| Family | Factor | Coeff | p-value |
|----------------------------|--------------------------------------|-------------------|------------------|
| Butterflyfishes (log+1) | Flat_Rock_West-Flat_Rock_Eas | 0.4492982 | 0.5884541 |
| | Manta_Ray_Bommie-Flat_Rock_East | 0.1015718 | 0.9973177 |
| | Shag_Rock_East-Flat_Rock_ | 0.4964636 | 0.4913607 |
| | Shag_Rock_West-Flat_Rock_East | 0.6194558 | 0.2696896 |
| | Manta_Ray_Bommie-Flat_Rock_West | 0.5508700 | 0.3854406 |
| | Shag_Rock_East-Flat_Rock_West | 0.9457618 | 0.0253080 |
| | Shag_Rock_West-Flat_Rock | 1.0687540 | 0.0082515 |
| | Shag_Rock_East-Manta_Ray_Bommie | 0.3948918 | 0.6992631 |
| | Shag_Rock_West-Manta_Ray_Bommie | 0.5178840 | 0.4485312 |
| | Shag_Rock_West-Shag_Rock_East | 0.1229922 | 0.9943774 |
| Damselfishes | Spring-Autumn | -99.400000 | 0.0000396 |
| | Summer-Autumn | -64.933333 | 0.0104633 |
| | Winter-Autumn | -96.066667 | 0.0000713 |
| | Summer-Spring | 34.466667 | 0.3224935 |
| | Winter-Spring | 3.333333 | 0.9983393 |
| | Winter-Summer | -31.133333 | 0.4124560 |
| Surgeonfishes (log+1) | Spring-Autumn | -1.0493601 | 0.0022700 |
| | Summer-Autumn | -0.6915394 | 0.0748936 |
| | Winter-Autumn | -1.3447479 | 0.0000673 |
| | Summer-Spring | 0.3578207 | 0.5787179 |
| | Winter-Spring | -0.2953878 | 0.7165026 |
| | Winter-Summer | -0.6532085 | 0.1015445 |

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