**S3 Table. Diet (proportional) composition matrix for the compartments in the Dm model.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 　 | Prey \ predator | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |
| 1 | Indo-Pacific humpback dolphins | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 2 | Pelagic piscivorous fish | 0.02  | <0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Benthic piscivorous fish |  |  | 0.09  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Large benthic-feeding fish | 0.60  | 0.01  | 0.01  | <0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Small benthic-feeding fish | 0.38  |  | <0.01  | 0.06  |  |  |  | 0.01  | 0.01  |  |  |  |  |  |  |  |  |
| 6 | Zooplanktivorous fish | <0.01  | 0.02  |  |  |  |  |  | <0.01  |  |  |  |  |  |  |  |  |  |
| 7 | Omnivorous fish | <0.01  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Cephalopods |  | <0.01  | <0.01 | <0.01 |  |  |  | <0.01 |  |  |  |  |  |  |  |  |  |
| 9 | Stomatopods |  |  | 0.01  | 0.01  |  |  |  | <0.01 | <0.01 |  |  |  |  |  |  |  |  |
| 10 | Crabs |  |  | 0.08  | 0.05  | <0.01  |  |  |  | <0.01 |  |  |  |  |  |  |  |  |
| 11 | Shrimp |  | <0.01 | 0.20  | 0.20  | <0.01 |  | <0.01 | <0.01 | <0.01 | <0.01 |  |  |  |  |  |  |  |
| 12 | Gastropods |  |  | 0.03  | 0.05  | 0.01  |  | <0.01 |  | 0.03  | 0.01  | 0.01  |  |  |  |  |  |  |
| 13 | Bivalves |  |  | 0.13  | 0.15  | 0.03  |  | <0.01 |  | <0.01 | <0.01 |  | <0.01 |  |  |  |  |  |
| 14 | Amphipods |  |  | <0.01 | <0.01 | <0.01 | 0.02  | 0.01  |  | <0.01 | <0.01 |  | 0.01  |  |  |  |  |  |
| 15 | Polychaetes |  |  | 0.20  | 0.10  | 0.35  | <0.01 | <0.01 |  | 0.02  | 0.03  | 0.10  | 0.05  |  |  | <0.01 |  |  |
| 16 | Carnivorous zooplankton |  | 0.20  | 0.01  | 0.01  | 0.01  | 0.20  | 0.10  | 0.10  |  |  | 0.05  |  |  |  |  |  |  |
| 17 | Herbivorous zooplankton |  | 0.62  | 0.10  | 0.09  | 0.03  | 0.38  | 0.30  | 0.50  | 0.30  | 0.15  | 0.06  | 0.10  |  | 0.04  | 0.01  | 0.90  |  |
| 18 | Phytoplankton |  |  |  |  |  | 0.10  | 0.04  |  |  |  |  | 0.24  | 0.10  |  | 0.01  |  | 0.02  |
| 19 | Detritus |  | 0.15  | 0.15  | 0.28  | 0.57  | 0.30  | 0.54  | 0.39  | 0.64  | 0.81  | 0.79  | 0.60  | 0.90  | 0.96  | 0.98  | 0.10  | 0.98  |