**S2 Text.** **Functional traits considered to create the functional entities for functional diversity indexes.**

* **Size** is coded as an ordered categorical variable with 6 levels:

1= 0-7cm (S1)

2= 7,1-15cm (S2)

3= 15,1- 30cm (S3)

4= 30,1-50cm (S4)

5= 50,1-80cm (S5)

6= >80cm (S6)

* **Mobility** (= Home Range) coded as an ordered categorical variable, with 3 levels:

1= Sedentary (Sed)

2= Mobile within a reef (Mob)

3= Very mobile, i.e., between reefs (VMob)

* Period of **Activity** coded as an ordered categorical variable, with 3 levels:

1= Diurnal (Day)

2= Diurnal and nocturnal (Both)

3= Nocturnal (Night)

* **Schools** coded as a categorical variable, with 5 levels:

1= Solitary (Sol)

2= In pairs (Pair)

3= Small group (SmallG)

4= Medium group (MedG)

5= Large group (LargeG)

* **Position** in the water column is coded as an ordered categorical variable, with 3 levels:

1= Bottom (Bottom)

2= Above the bottom (Low)

3= Pelagic (High)

* **Diet** coded as a categorical variable, with 7 levels:

HD = Herbivore-detritivores (undefined organic matter, often grouped together by many authors under the name of detritus and/or undefined vegetable matter, grass, or filamentous algae).

HM = Macroalga herbivores (large fleshy algae and seagrasses).

IS = Sessile invertebrate feeders (sessile invertebrates: corals, sponges, ascidians, among others).

IM = Mobile invertebrate feeders (large benthic invertebrates + small benthic invertebrates + undefined invertebrates).

PK = Planktivores (plankton and small organisms that migrate in the water column, such as many benthic copepods, amphipods, crustacean larvae, etc. that migrate in the water column at night).

FC = Pelagic macroorganisms (large organisms living in the water column, normally fish and cephalopods) and benthic fish.

OM = Omnivores (herbivores and/or detritivores and carnivores).

Formulae for Functional Redundancy, Functional Overredundancy and Functional Vulnerability based on FEs as in Mouillot et al. (2014).

Where S is the total number of species in the sites, FE is the total number of functional entities and is the number of species in the *FE* :

**Supplemental Material Literature Cited**

Mouillot D, Villéger S, Parravicini V, Kulbicki M, Arias-González JE, Bender M, Chabanet P, Floeter SR, Friedlander A, Vigliola L, Bellwood DR. Functional over-redundancy and high functional vulnerability in global fish faunas on tropical reefs. Proc Natl Acad Sci U S A. 2014 Sep 23;111(38):13757-62. https://doi.org/10.1073/pnas.1317625111