

The following supplement accompanies the article

## Explained and unexplained tissue loss in corals from the Tropical Eastern Pacific

Jenny Carolina Rodríguez-Villalobos\*, Thierry Martin Work, Luis Eduardo Calderon-Aguilera, Héctor Reyes-Bonilla, Luis Hernández

\*Corresponding author: jennica13@hotmail.com

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**Table S1.** Data used to calculate the resource selection ratios. Occurrences of lesions recorded per predator agent (*Acanthaster planci*, *Arothron meleagris*, *Coralliophila monodonta*, *Jenneria pustulata*) and unexplained tissue loss (UTL). Total number of available colonies per species are also shown.

	<i>A. planci</i>	<i>A. meleagris</i>	<i>C. monodonta</i>	<i>J. pustulata</i>	UTL	Available colonies
<i>P. capitata</i>	0	49	9	2	2	383
<i>P. damicornis</i>	0	55	2	1	1	1363
<i>P. effusus</i>	0	5	0	0	0	17
<i>P. eydouxi</i>	0	8	0	0	0	87
<i>P. inflata</i>	0	5	1	0	1	113
<i>P. meandrina</i>	0	276	3	0	0	961
<i>P. verrucosa</i>	1	438	14	7	12	3880
<b>Total</b>	<b>1</b>	<b>836</b>	<b>29</b>	<b>10</b>	<b>166</b>	
<b>occurrences</b>						<b>6807</b>

**Table S2.** Coral species densities (colonies m<sup>-2</sup>) in the Pacific Coast of Mexico per species and localities. Density of *P. effusus* was lower than 0.01 (colonies m<sup>-2</sup>) in all locations.

	<i>P. capitata</i>	<i>P. damicornis</i>	<i>P. inflata</i>	<i>P. eydouxi</i>	<i>P. meandrina</i>	<i>P. verrucosa</i>	Total
<b>La Paz</b>	0.06	0.62	0.05	0.00	0.19	0.77	1.69
<b>Cabo</b>	0.04	0.01		0.01	0.36	0.82	1.26
<b>Pulmo</b>							
<b>Isla Isabel</b>	0.00	0.05	0.00	0.04	0.01	0.09	0.19
<b>Islas</b>	0.05	0.06	0.00	0.01	0.00	0.18	0.29
<b>Marietas</b>							
<b>Manzanillo</b>	0.05	0.01	0.01	0.00	0.01	0.16	0.24
<b>Melaque</b>	0.10	0.00	0.00	0.00	0.01	0.13	0.46
<b>Ixtapa</b>	0.08	0.02	0.00	0.00	0.01	1.33	1.34
<b>Papanao</b>	0.00	0.00	0.00	0.00	0.03	0.58	0.62
<b>Huatulco</b>	0.07	0.21	0.00	0.00	0.00	0.00	0.48

**Table S3.** Prevalence of tissue loss lesions (%) caused by agent: predation by *A. meleagris*, *A. plancii*, *J. pustulata*, and *C. monodonta*, or unexplained tissue loss (UTL), per locality in the Pacific Coast of Mexico (north to south). Prevalence (per locality) was calculated relative to the total number of colonies examined in the respective locality in all sites.

	<i>A. meleagris</i>	<i>A. plancii</i>	<i>C. monodonta</i>	<i>J. pustulata</i>	UTL
<b>La Paz</b>	3.7	0.0	0.1	0.0	3.6
<b>Cabo Pulmo</b>	28.4	0.0	0.3	0.0	1.8
<b>Isla Isabel</b>	21.9	0.0	0.0	0.0	0.0
<b>Islas</b>	0.0	0.0	0.0	0.0	0.0
<b>Marietas</b>					
<b>Manzanillo</b>	18.9	0.0	0.8	0.3	3.3
<b>Melaque</b>	1.3	0.0	6.9	3.9	0.0
<b>Ixtapa</b>	0.7	0.0	0.0	0.0	2.0
<b>Papanao</b>	0.0	0.0	0.0	0.0	0.0
<b>Huatulco</b>	12.4	0.0	0.0	0.0	0.0