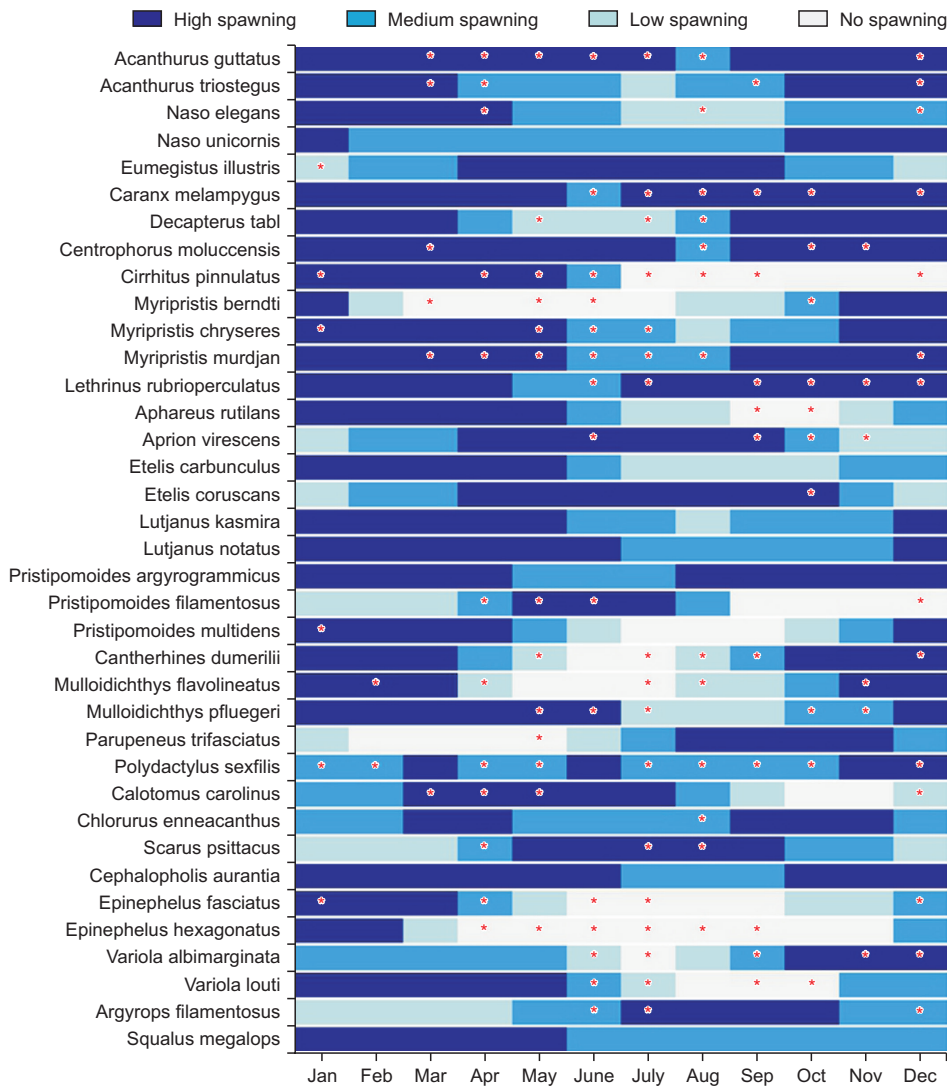


**Supplementary Fig. 1.** Reproduction period and intensity of females for each species around La Réunion Island. The reproduction intensity was quantified.



**Supplementary Fig. 2.** Number reproduction period and intensity of males for each species around La Réunion Island. The reproduction intensity was quantified.

**Supplementary Table 1.** Sampled adults fish per month for each species to estimate the reproduction period and intensity of the mainly fish species around La Réunion Island

Latin Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
<i>Abudefduf septemfasciatus</i>	5	5			3	1	1			2	9	
<i>Acanthurus dussumieri</i>	9		2						2	2	5	1
<i>Acanthurus guttatus</i>	3	12			1				5	5	34	
<i>Acanthurus triostegus</i>	54	49			37	1	22	11		179	71	
<i>Aphareus rutilans</i>	18	3	38	14	10	3	10	8	2		1	2
<i>Aprion virescens</i>	3	24	13	2	4		1	3	3			3
<i>Argyrops filamentosus</i>	2	8	5	6	4	1		6	3	12	2	1
<i>Beryx decadactylus</i>			4	1	1	2	1	10	4	7	8	8
<i>Branchiostegus doliatus</i>		4	2	1		2		2	4	3	4	4
<i>Calotomus carolinus</i>	4	20	2			4	4	1	3	13	9	
<i>Cantherhines dumerilii</i>	2	6	3	2		4			2	7	21	
<i>Caranx melampygus</i>	3	30	22	2	5					2	1	
<i>Centrophorus moluccensis</i>	3	6		4	2	5	6	2	9	2	2	3
<i>Cephalopholis aurantia</i>	9	17	14	19	19	12	9	45	29	10	16	5
<i>Cephalopholis nigripinnis</i>	1	4	2			1		2	11			8
<i>Cephalopholis spiloparaea</i>	3	3	4	9	1	1		17	4			1
<i>Cheilinus trilobatus</i>	6	9	2	1	4	12	1	1	6	7	20	
<i>Chlorurus enneacanthus</i>	13	3	2	7	4	22	1		38	15	36	5
<i>Cirrhitus pinnulatus</i>		5	54							3	3	1
<i>Decapterus tabl</i>	5	9	5	5	1	1		1	6	7	6	4
<i>Epinephelus fasciatus</i>	10	18	41	21	32	7	3	56	51	3	13	7
<i>Epinephelus hexagonatus</i>	61	42	23			1	9		1	38	18	91
<i>Epinephelus merra</i>	2	12	4	1	2	20	26		10	22	7	
<i>Epinephelus radiatus</i>	2	5	9	15	11	1	1	5	2	6	7	4
<i>Epinephelus tauvina</i>	2	4	2	3		5			7	2	2	1
<i>Etelis carbunculus</i>	75	138	139	193	60	56	81	50	67	91	195	183
<i>Etelis coruscans</i>	2	10	20	24	11	4	6	10	2	1	2	12
<i>Eumegistus illustris</i>	4	11	5	20	39	9	24	9	19	10	10	11
<i>Kyphosus bigibbus</i>	2	10	1			1	2	2	1		2	
<i>Kyphosus cinerascens</i>	1	12					1	1	1	6	3	1
<i>Kyphosus vaigiensis</i>	4	3	1	4			2		1	4	2	3
<i>Lethrinus rubrioperculatus</i>	5	33	41	14	4	2		1	4			12
<i>Lutjanus bengalensis</i>	8	1		8	2				1		1	4
<i>Lutjanus kasmira</i>	37	59	126	82	28	19	20	59	64	32	22	58
<i>Lutjanus notatus</i>	21	47	28	30	22	12	19	34	51	56	41	23
<i>Mulloidichthys flavolineatus</i>	1	3	8		5	22			6	8	2	2
<i>Mulloidichthys pfluegeri</i>	6	20	11	3	1			4	1	1	1	4
<i>Myripristis berndti</i>	10	51	1	2		1	2	2	12		20	12
<i>Myripristis chryseres</i>		4	9	6	1	1		9	21	4	2	21
<i>Myripristis murdjan</i>	4	45	1				2		6	1	8	1
<i>Naso elegans</i>	5	3	2		1	8	15		1	8	5	
<i>Naso unicornis</i>	10	19	6	3	1	20	3	1	25	20	6	1
<i>Ostichthys kaianus</i>	3	1	5	7	1	2	1		4	4	4	2
<i>Parupeneus trifasciatus</i>	7	15	10	3	2	13	8	4	22	14	23	4
<i>Polydactylus sexfilis</i>	1		65			1			1	1	5	
<i>Polymixia berndti</i>		8	7	2	4	3	2	2	1	1	13	2
<i>Pontinus nigerimum</i>	4	2	5	3	3		1		2			5
<i>Pristipomoides argyrogrammicus</i>	37	67	44	78	40	27	19	14	25	64	73	59
<i>Pristipomoides filamentosus</i>	4	36	3	2	1		5	3	7	2	8	2

Supplementary Table 1. Continued

Latin Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
<i>Pristipomoides multidentis</i>	1	36	24	31	17	3	8	22	18	14	29	11
<i>Promethichthys prometheus</i>	3	10	2	1	1	2	1	1	1	9	3	13
<i>Rexea prometheoides</i>	16	13	3	15	7	4	1	1	18	20	21	7
<i>Sargocentron spiniferum</i>		10	1	2		5	1	2	6	1	2	
<i>Scarus psittacus</i>	7	38	5		5	14			9	13	14	3
<i>Squalus megalops</i>	5	44	17	38	20	27	18	10	35	14	21	35
<i>Thyrsitoides marleyi</i>		2		4	4	1	2		4	1	8	4
<i>Variola albimarginata</i>	22	44	44	10	8		1	4	2	4		
<i>Variola louti</i>	6	15	22	10	1			5	3		2	2