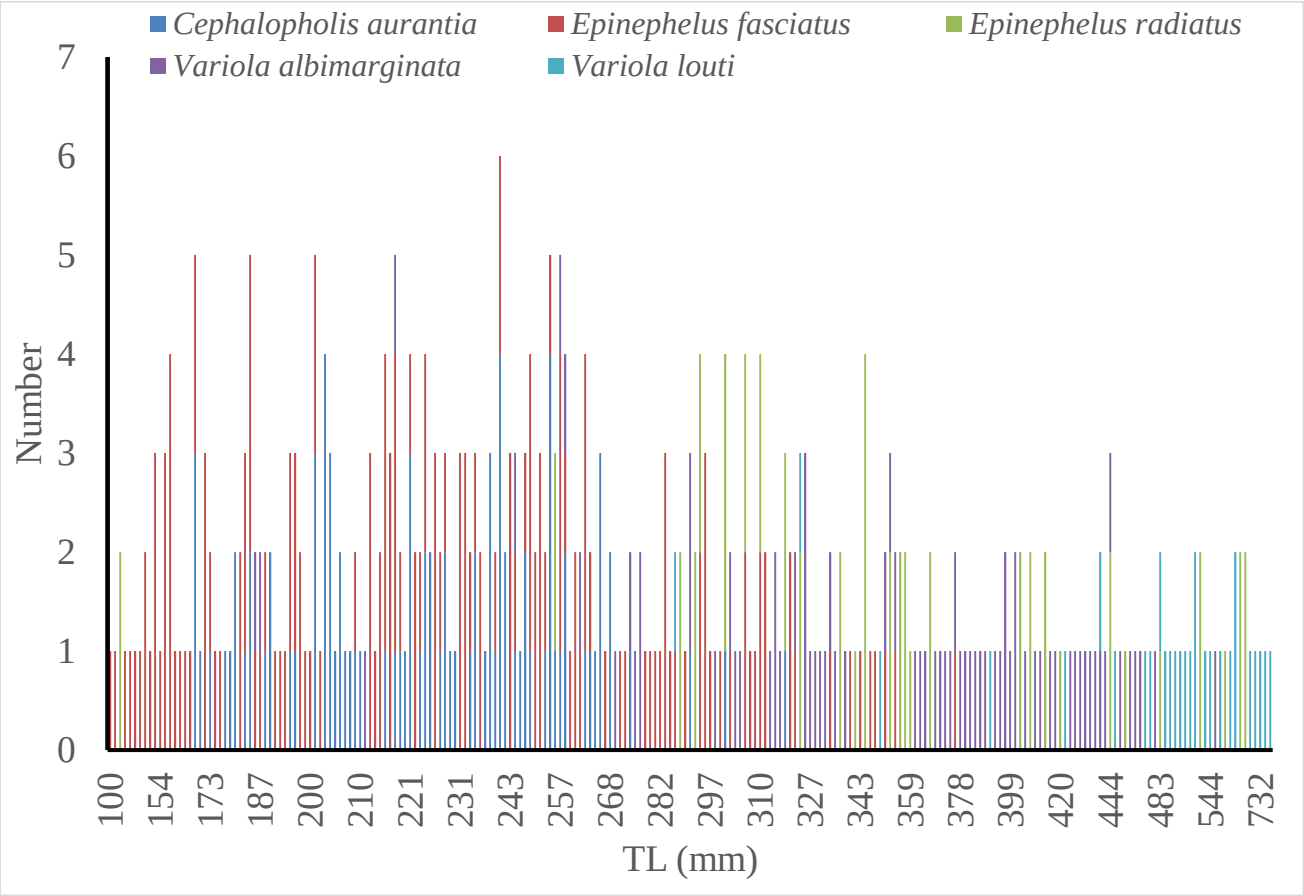
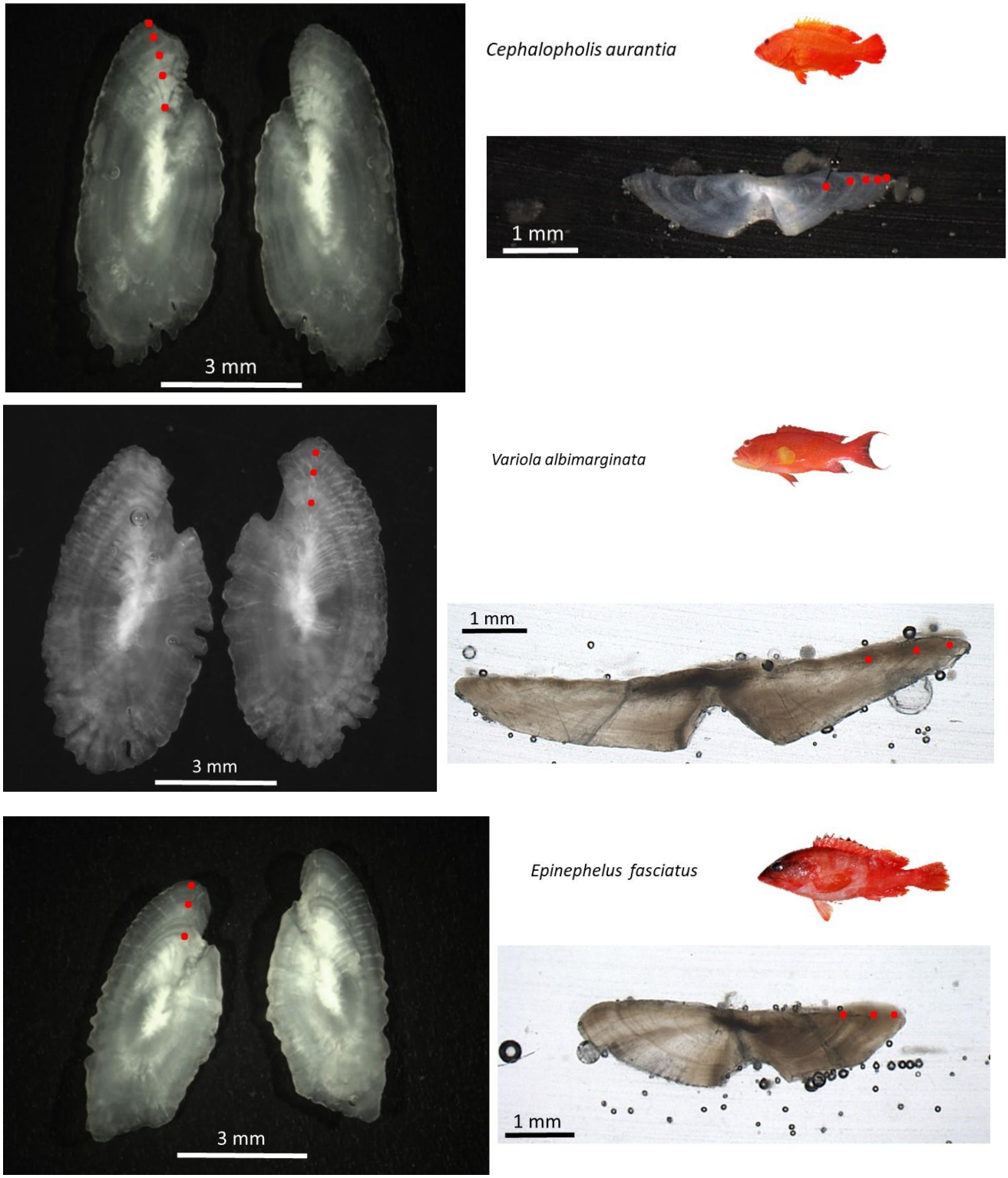
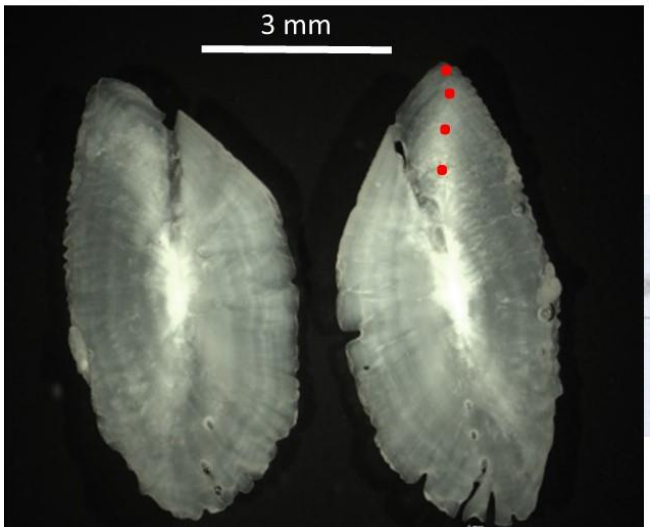
Supplementary Material

Supplementary Figure 1: Length distribution of the main grouper species around La Réunion Island (V. albimarginata : n=80; V. louti : n=31; E. fasciatus : n=165; C. aurantia : n=130; E. radiatus, n=76).

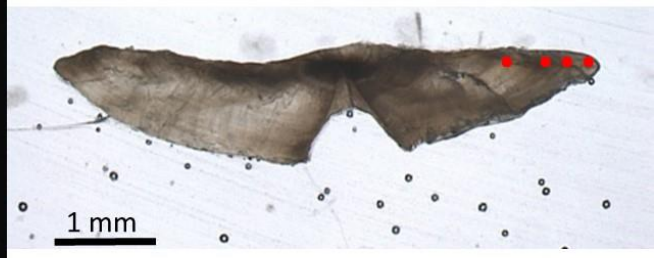


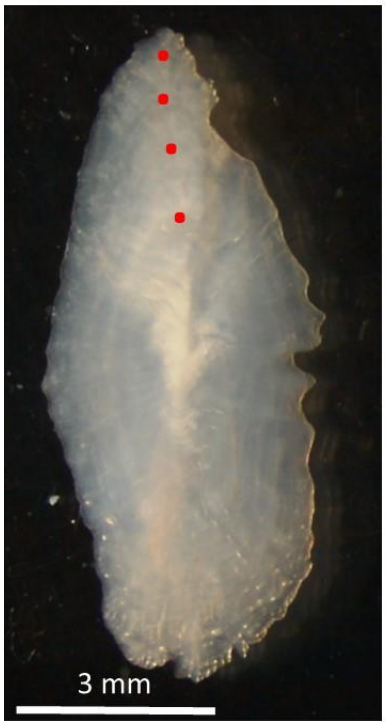
Supplementary Figure 2: Comparison of whole otolith and fine transverse section for the main grouper species around La Réunion Island. Each growth increment was identified by each red point.



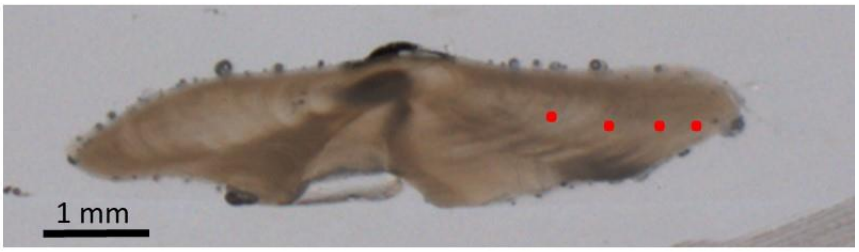


Variola louti

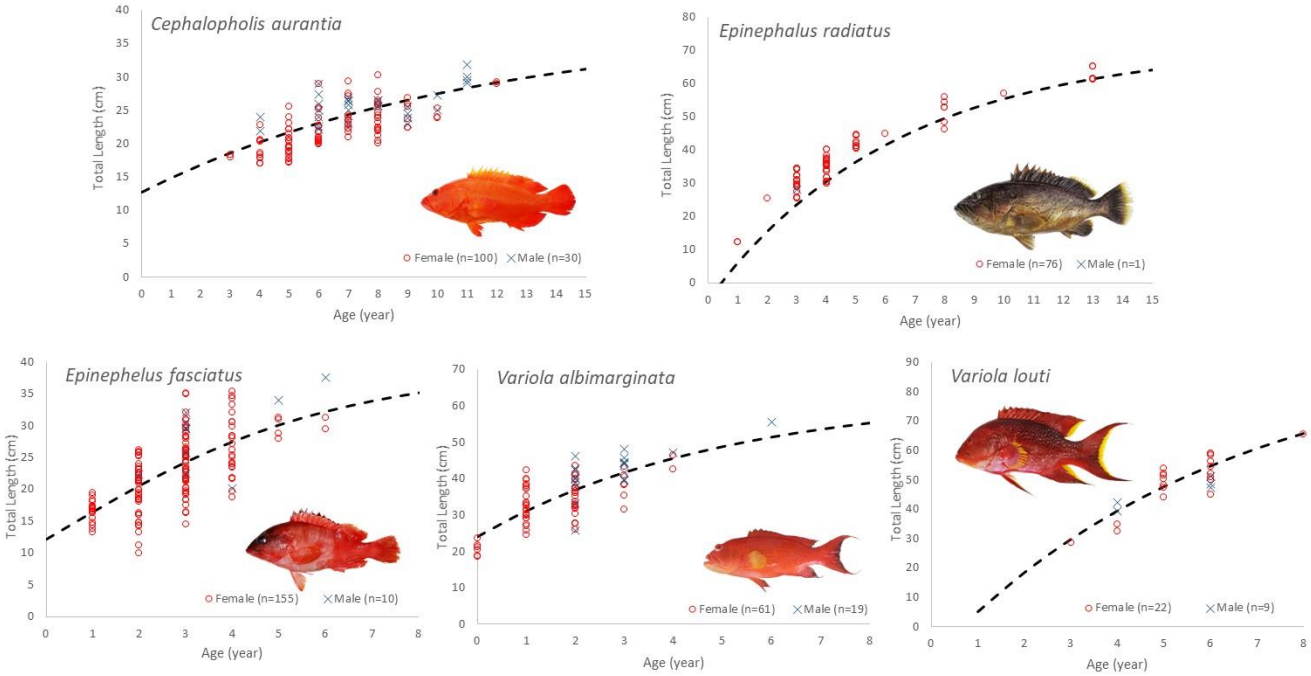




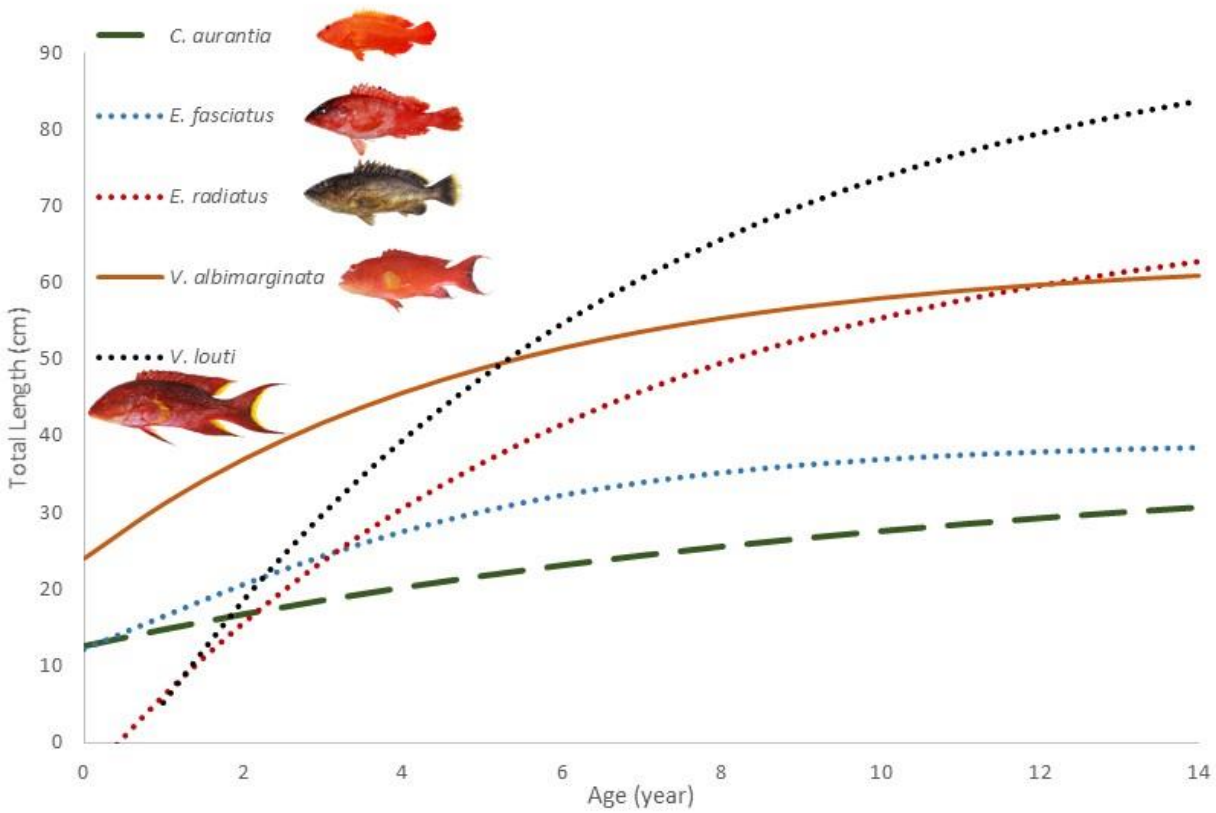
Epinephelus radiatus



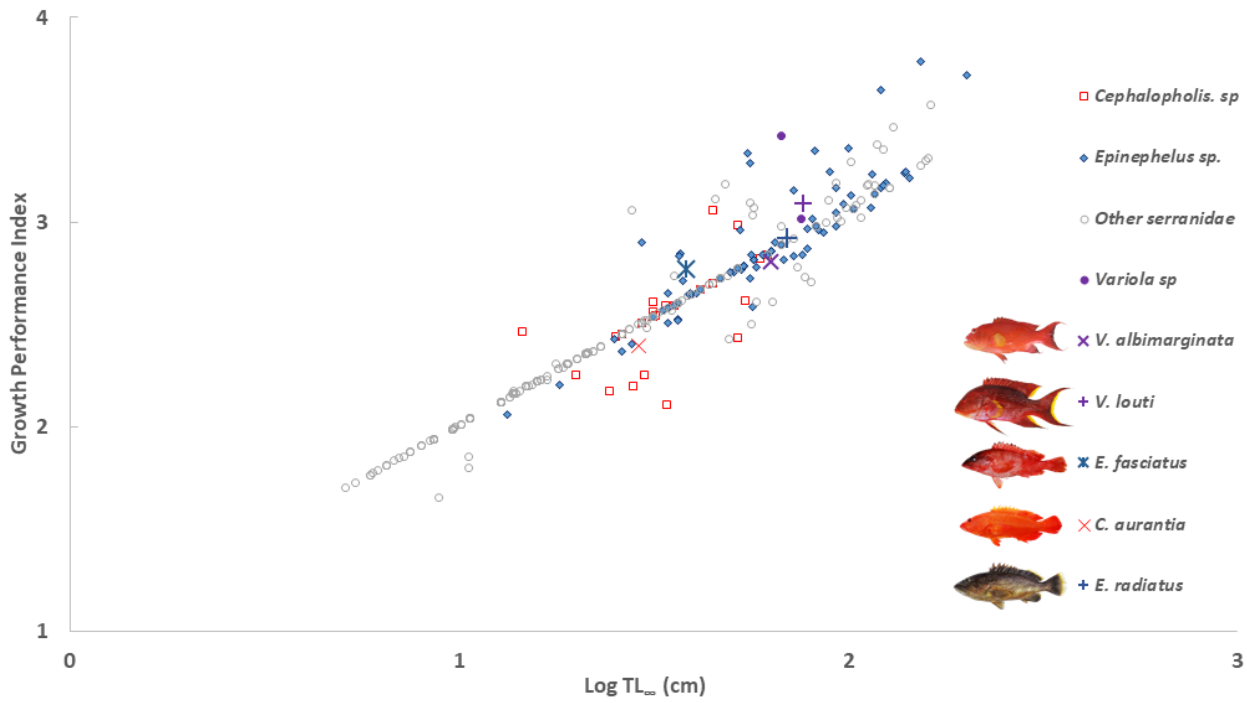
Supplementary Figure 3: Growth curve of groupers species around La Réunion Island fitted to all individual data with the observed age for females (red circle) and males (blue cross).



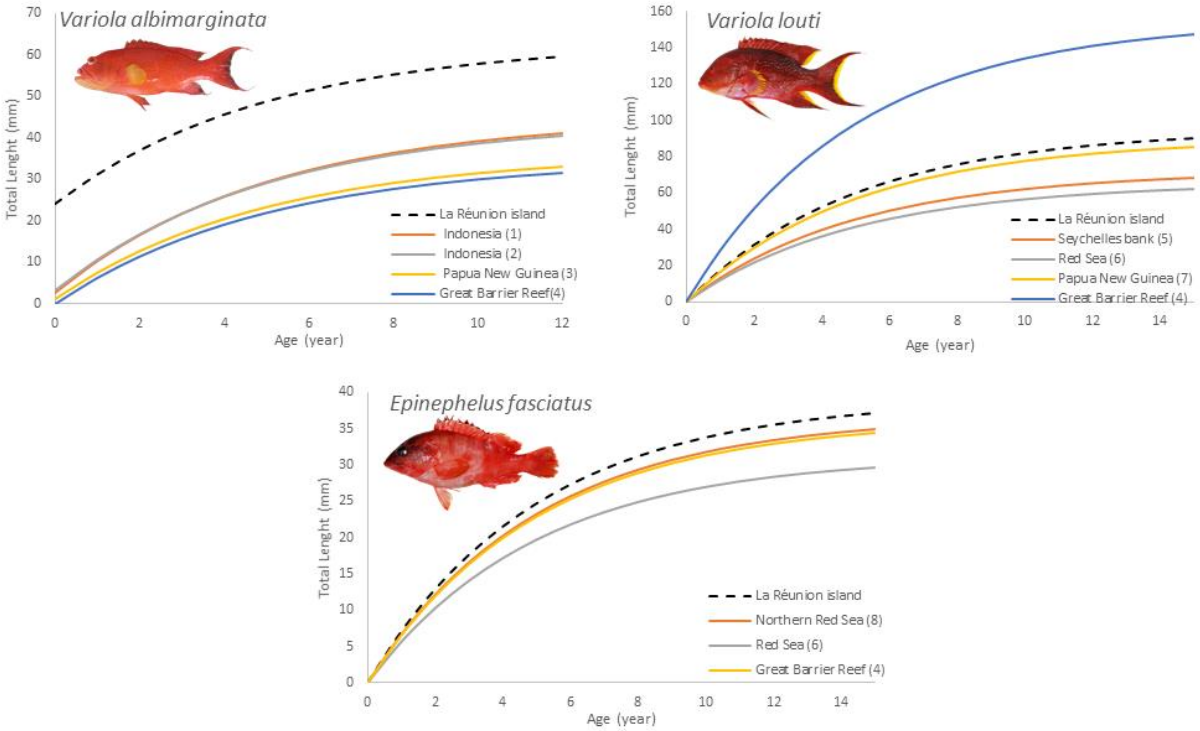
Supplementary Figure 4: Comparison of growth curves of the main grouper species around La Réunion Island.



Supplementary Figure 5: Relationship between growth performance index (φ) and asymptotic total length TL∞ of five grouper species from La Réunion Island relative to other species of the Serranidae family (Source Fishbase, n=321 species, only the total length was used).



Supplementary Figure 6: Growth curves of three grouper species in the southern hemisphere (1: Rachmawati & Puspasari, 2021; 2: Ernawati et al., 2021 ; 3: Fry et al., 2006; 4:Mapleston et al., 2009; 5: Grandcourt, 2005; 6: Wahbeh, 2005; 7: Munro & Williams, 1985; 8: Saleh et al., 2019).



Supplementary Table 1: Number of fish used for marginal increment (MI) analysis by month and by species.

Month	*Cephalopholis aurantia*	*Epinephelus fasciatus*	*Epinephelus radiatus*	*Variola albimarginata*	*Variola louti*
January	5	9	19	9	5
February		21	4	28	3
March		14	38	2	3
April	5	7		3	8
May		10			
June	7	4	2		
July	11	1	10		
August	7	14	3	5	6
September	29	37	2	2	2
October	6	3		3	
November	16	11			1
December	5	8			1

Supplementary Table 2: Number of fish by sex (F: females; M: males) and sex-ratio (F/ (M+F)*100) by month and by species.

Month	*Cephalopholis aurantia*			*Epinephelus fasciatus*			*Epinephelus radiatus*			*Variola albimarginata*			*Variola louti*		
	F	M	Sex-ratio	F	M	Sex-ratio	F	M	Sex-ratio	F	M	Sex-ratio	F	M	Sex-ratio
January	5	4	56%	10	0	100%	18	1	95%	19	4	83%	3	2	60%
February	14	3	82%	25	1	96%	4		100%	27	12	69%	4	0	100%
March	5	4	56%	19	0	100%	38		100%	3	1	75%	2	1	67%
April	9	2	82%	11	0	100%				3	1	75%	6	2	75%
May				17	0	100%									
June	8	0	100%	4	0	100%	2	0	100%						
July	10	1	91%	1	0	100%	10	0	100%						
August	3	3	50%	10	4	71%	3	0	100%	4	1	80%	3	3	50%
September	27	3	90%	40	1	98%	2	0	100%	2	0	100%	2	0	100%
October	7	1	88%	2	1	67%				3	0	100%			
November	8	8	50%	9	1	90%							1	1	50%
December	4	1	80%	9	0	100%							1	0	100%