

## Supplementary Materials

### **Reproductive biology of a bamboo shark as a framework for better fisheries management**

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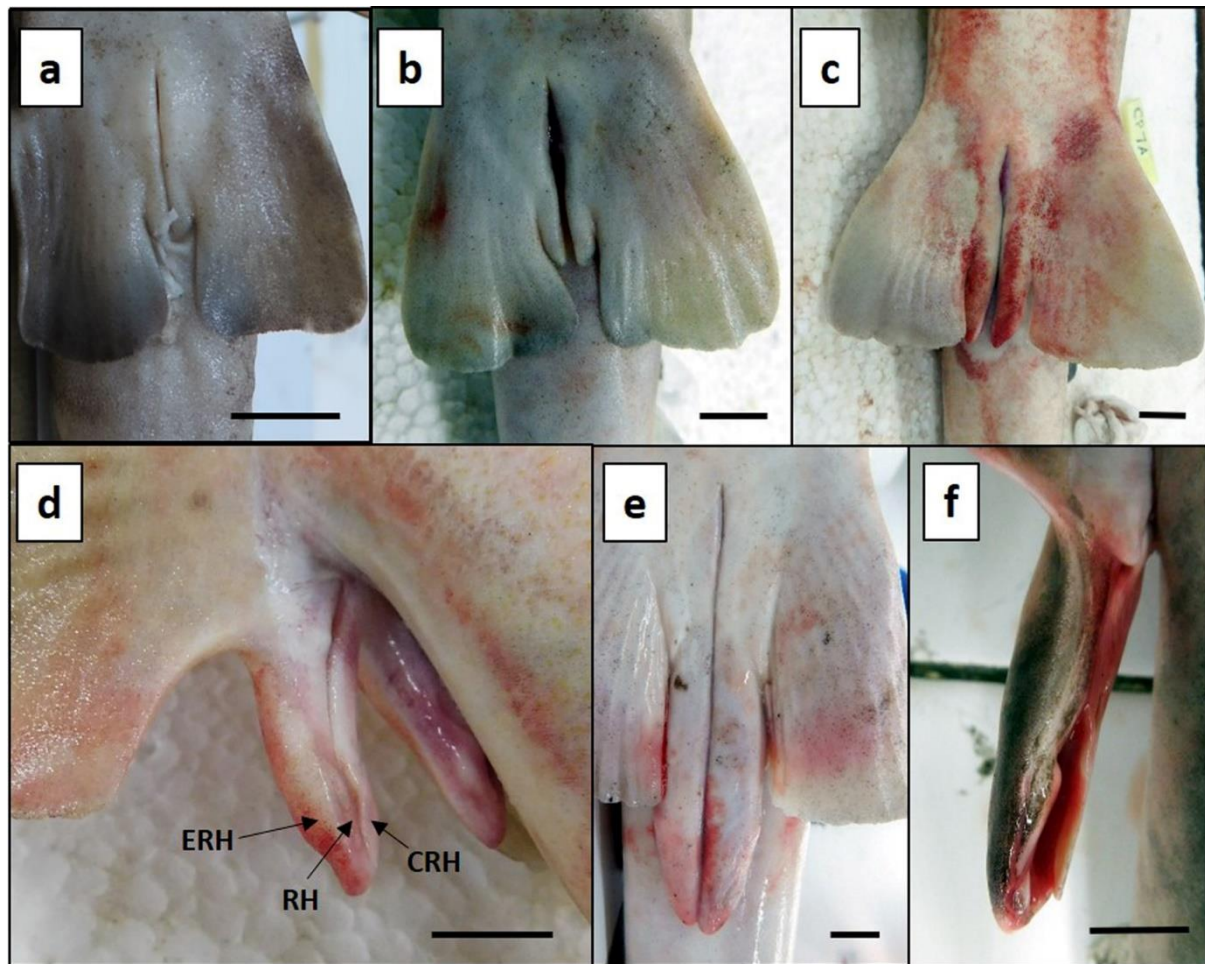
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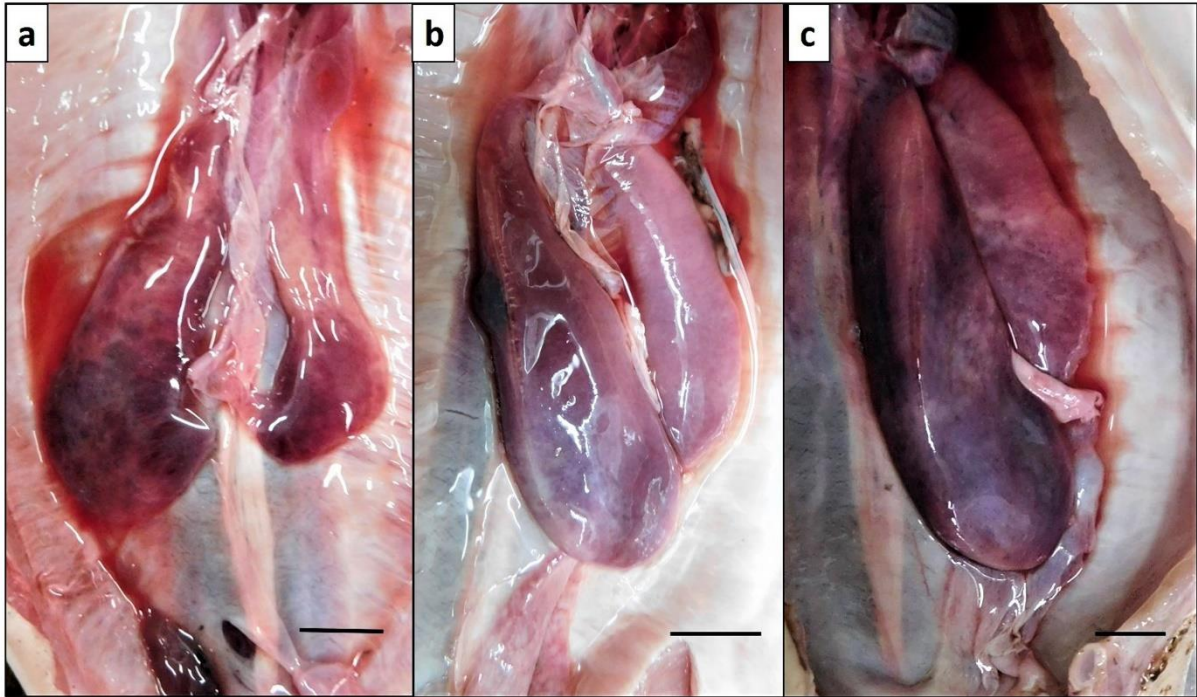
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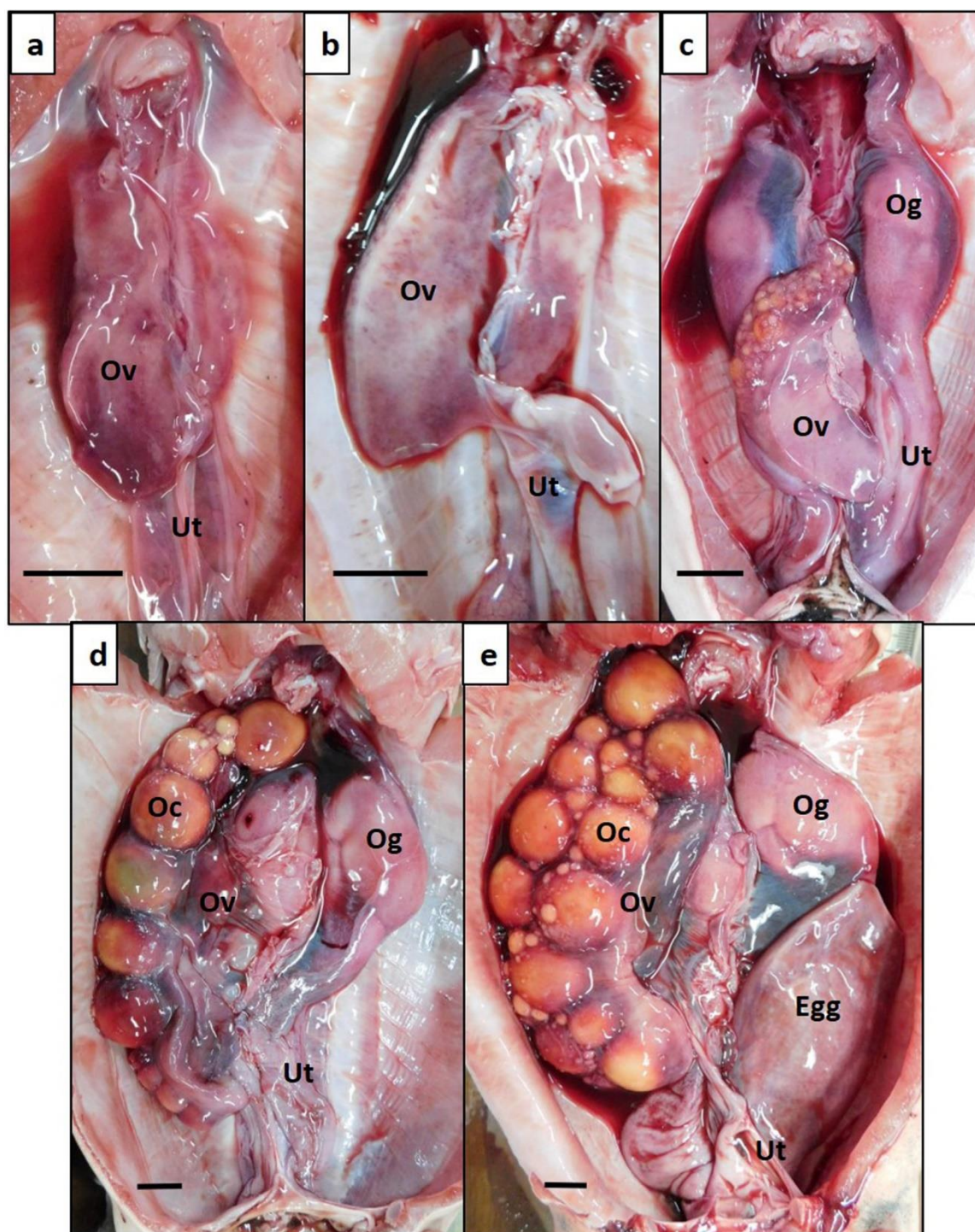
**Fig. S1.** The development of claspers of *Chiloscyllium punctatum*: (a) juvenile-immature stage; (b) young-immature stage; (c) adolescent-immature stage; (d) clasper structure of sub-adult/maturing stage; (e) adult stage; (f) clasper structure of adult male. Scale bars represent 1 cm.



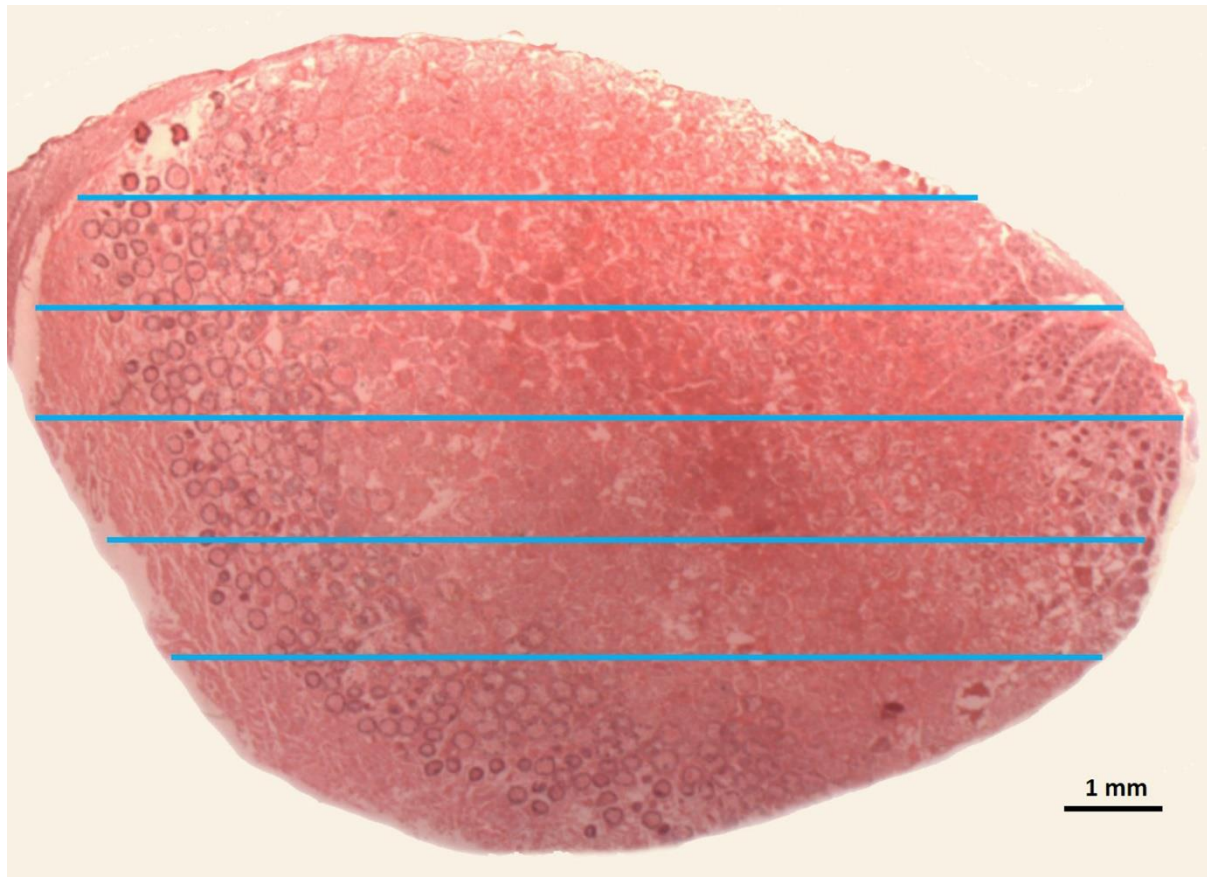
**Fig. S2.** Testis development of *Chiloscyllium punctatum*: (a) immature stage; (b) maturing/transition stage; (c) adult stage. Scale bars represent 1 cm.



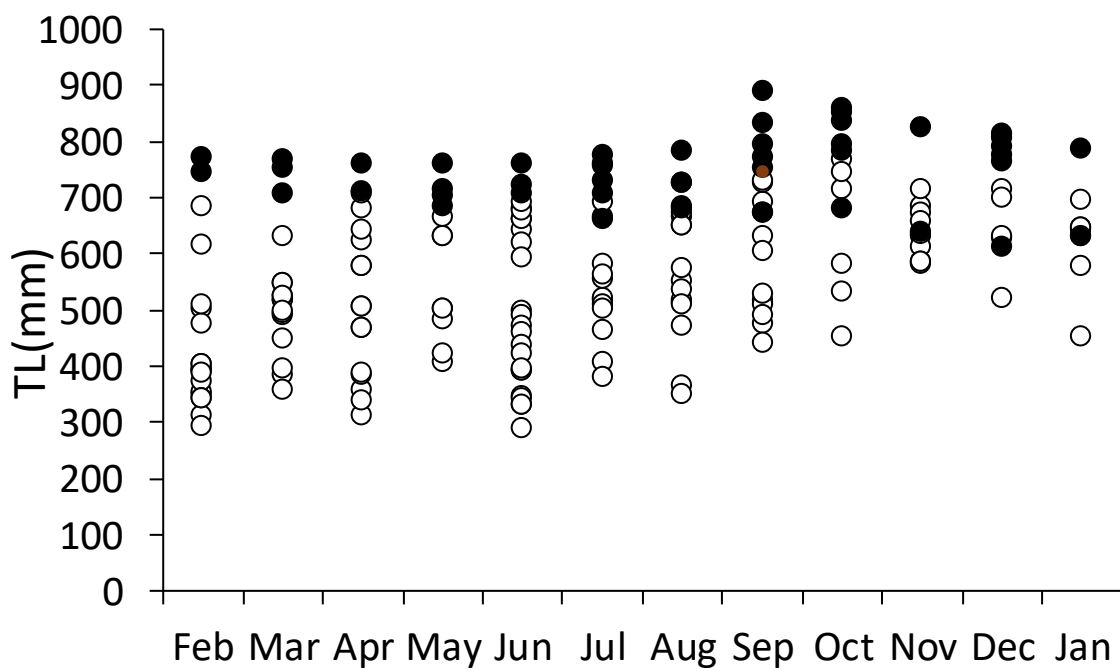
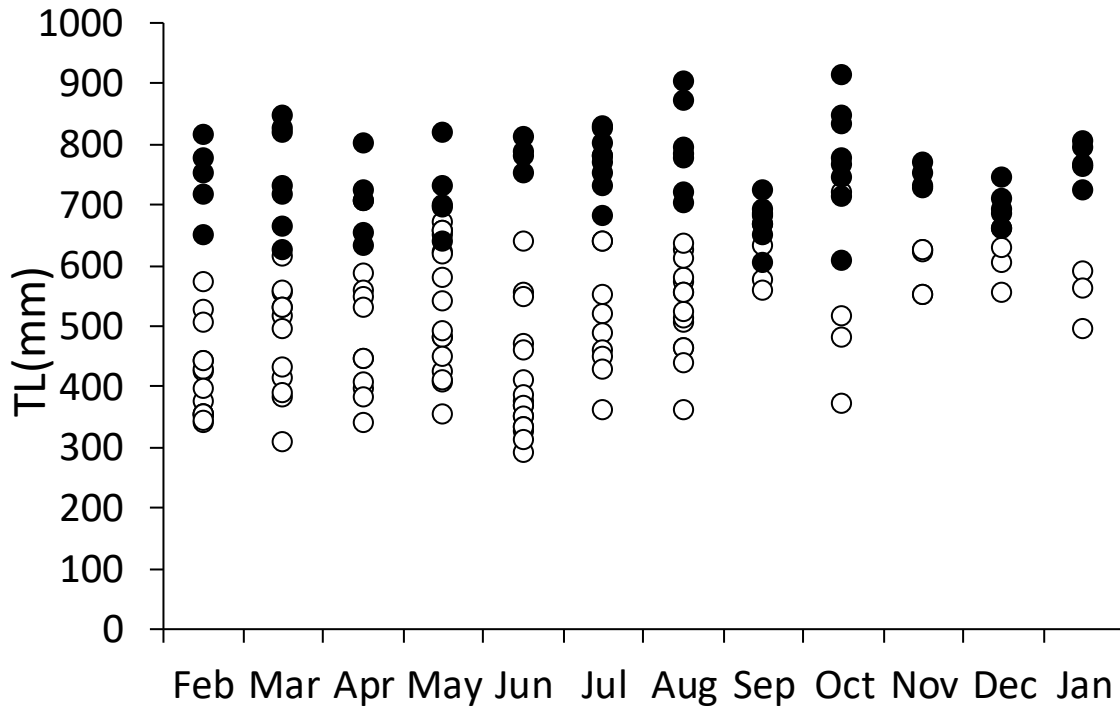
**Fig. S3.** The development of female reproductive organs of *Chiloscyllium punctatum*: (a) young-immature (365 mm TL); (b) adolescent stage (517 mm TL); (c) sub-adult-maturing (665 mm TL); (d) adult-mature (680 mm TL); (e) adult-pregnant (783 mm TL) (Ov=Ovary; Ut=Uterus; Og=Oviducal gland; Oc=Oocyte). Scale bars represent 1 cm.



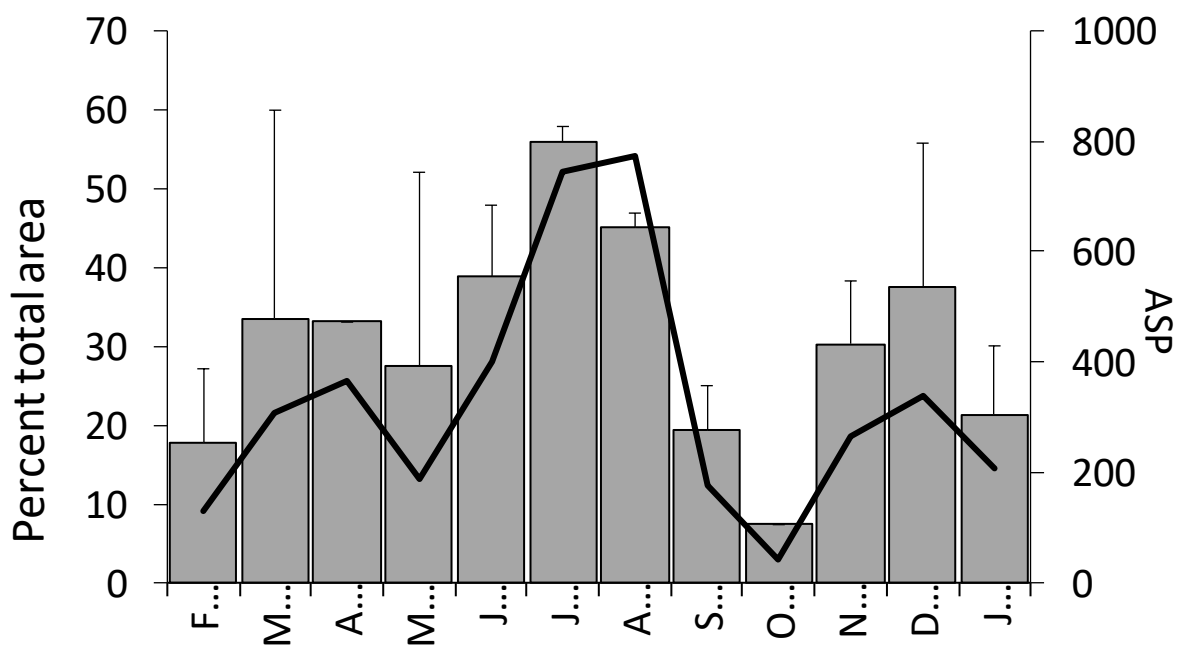
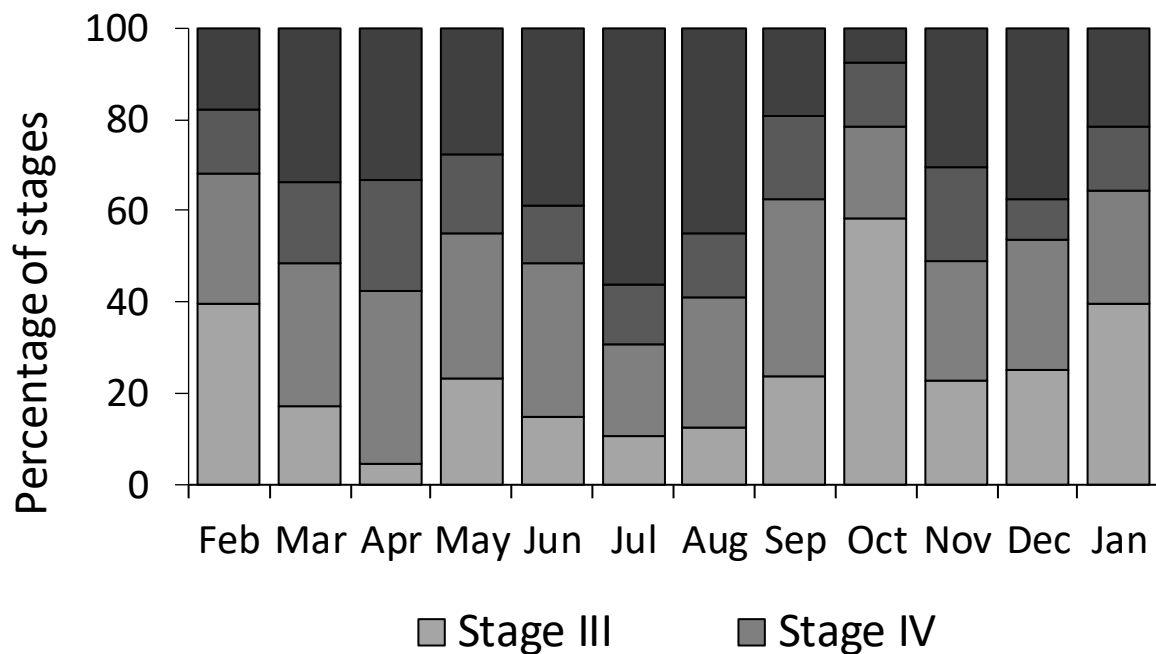
**Fig. S4.** The cross-section of a *Chiloscyllium punctatum* testis showed a diametric structure (Pratt 1988) with five transects to estimate the proportion of spermatogenesis stages, stained with carbol fuchsin.



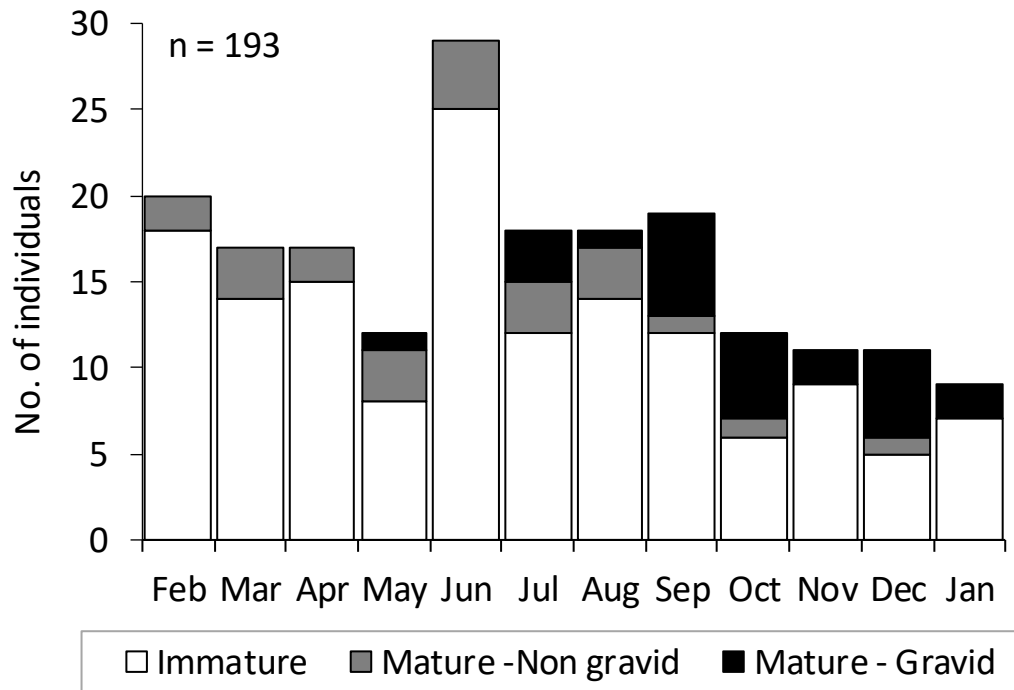
**Fig. S5.** Monthly variation in the total length and proportion of mature and immature individuals of (a) males and (b) females landed from waters around Seribu Islands between February 2017 and January 2018. Solid bullets (●) indicate mature individual and hollow bullets (○) indicate immature and maturing individuals.



**Fig. S6.** The number of female *Chiloscyllium punctatum* sampled from the waters around Seribu Islands, Indonesia each month from February 2017 to January 2018 with the proportion of immature, non-gravid mature and gravid individuals.



**Fig. S7.** Testis developmental stages of *Chiloscyllium punctatum*: (a) the mean percentage of each stage of spermatogenesis; and (b) mean percentages (column) and the absolute contributions (ASP; line) of stage VI to the total sperm production, error bars show standard deviation.





**Fig. S8.** Male *Chiloscyllium punctatum* internal organ (Lv = liver; St = stomach; T = right testis; Int = intestine).

