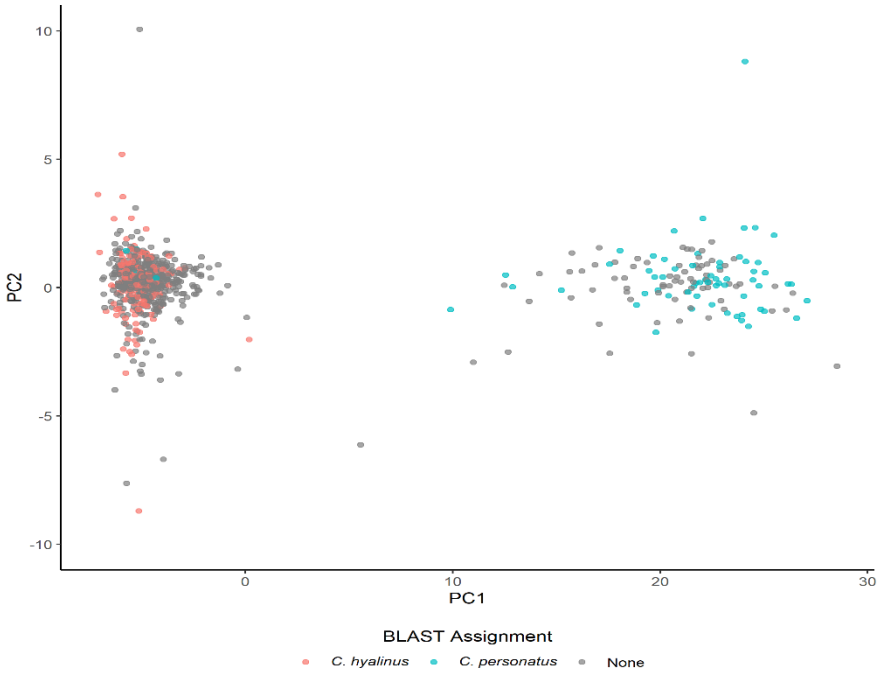

Fig. S1. The first two genetic principal components used for species assignment. The color of the points shows species assignment based on the results of BLAST used on reads which mapped to the *Bathygobius cocosensis* mitochondrial genome

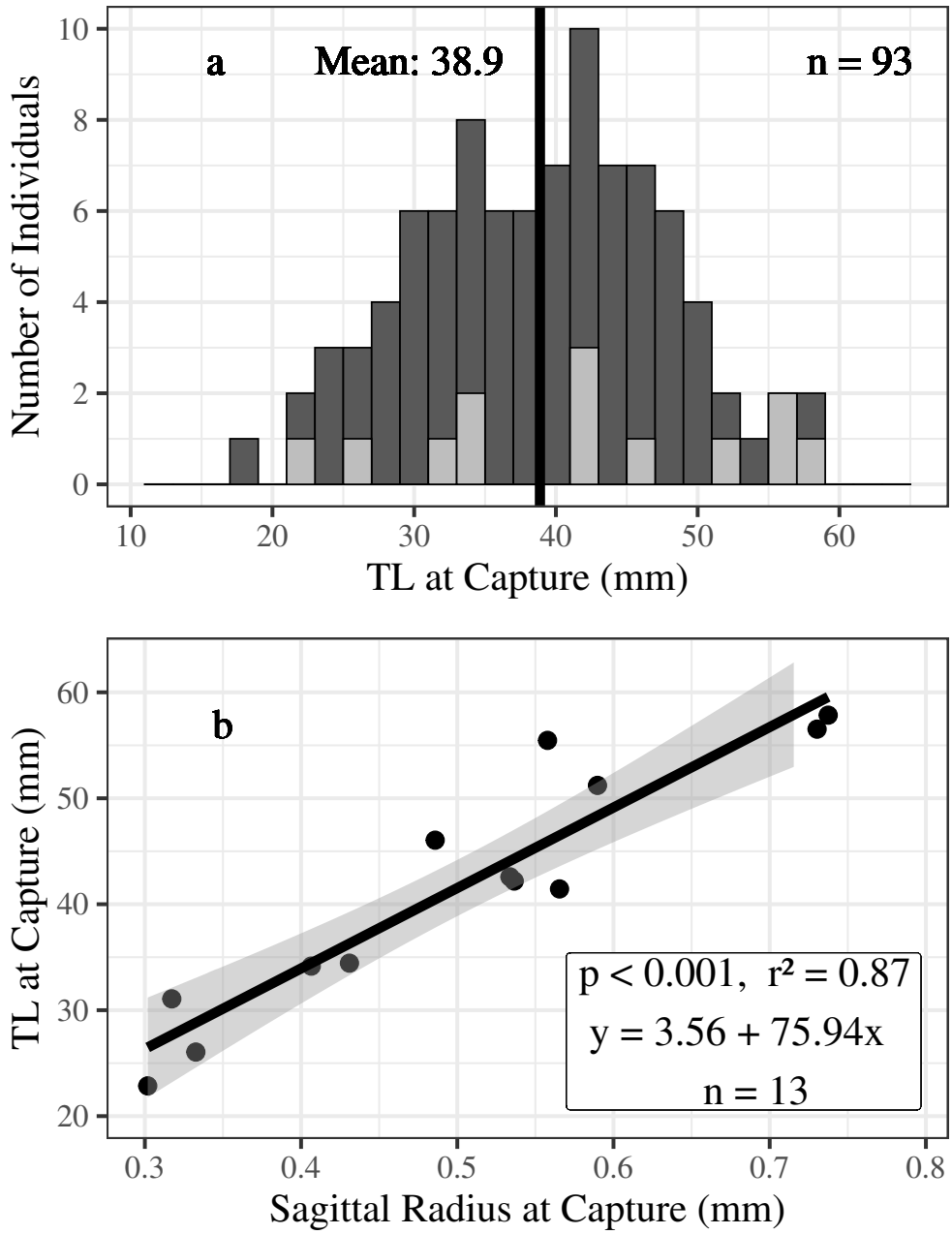

Fig. S2. (a) Frequency distribution of *C. personatus* total length (TL) at capture. Lighter-shaded region indicates the subset of individuals (n = 13) with an estimated age at capture. Binwidth = 2 mm. (b) Relationship between *C. personatus* otolith radius and total length (TL) at capture modeled by a linear regression. Shaded area is 95% confidence interval

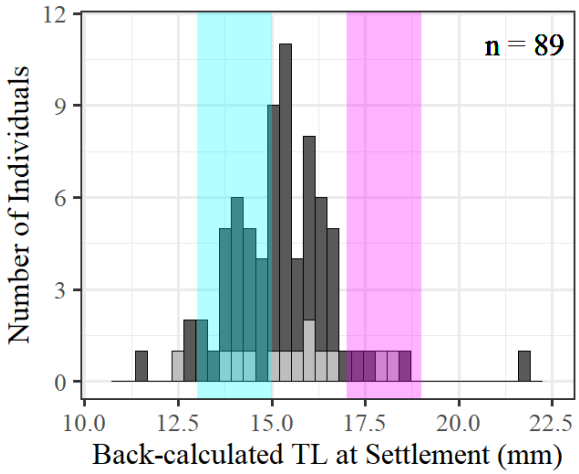

Fig. S3. Frequency distribution of *C. hyalinus* back-calculated total length (TL) at settlement (n = 76). Lighter-shaded gray region indicates the back-calculated TL at settlement for *C. personatus* (n = 13). Binwidth = 0.32 mm. Cyan and magenta shading indicate the TL at reproductive maturity for males (13 to 15 mm) and females (17 to 19 mm) respectively (Cole & Robertson 1988)

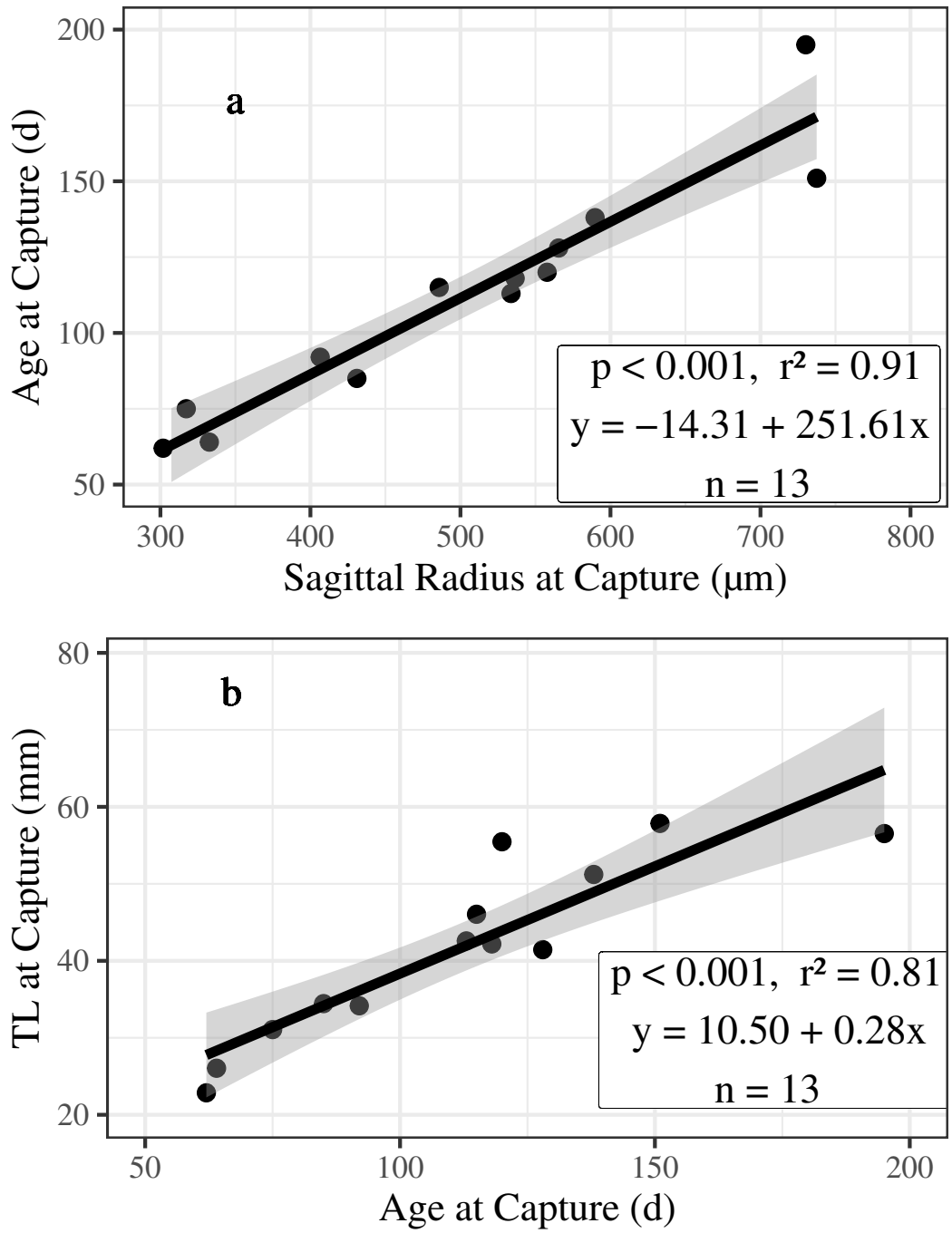

Fig. S4. (a) Relationship between *C. personatus* otolith radius and estimated age at capture (days, d) modeled by a linear regression. (b) Relationship between *C. personatus* estimated age (days, d) and total length (TL) at capture modeled by a linear regression. Shaded area is 95% confidence interval. The linear regression equation to predict age given TL: y = -9.27 + 2.91x, $p < 0.001$, $r^2 = 0.81$

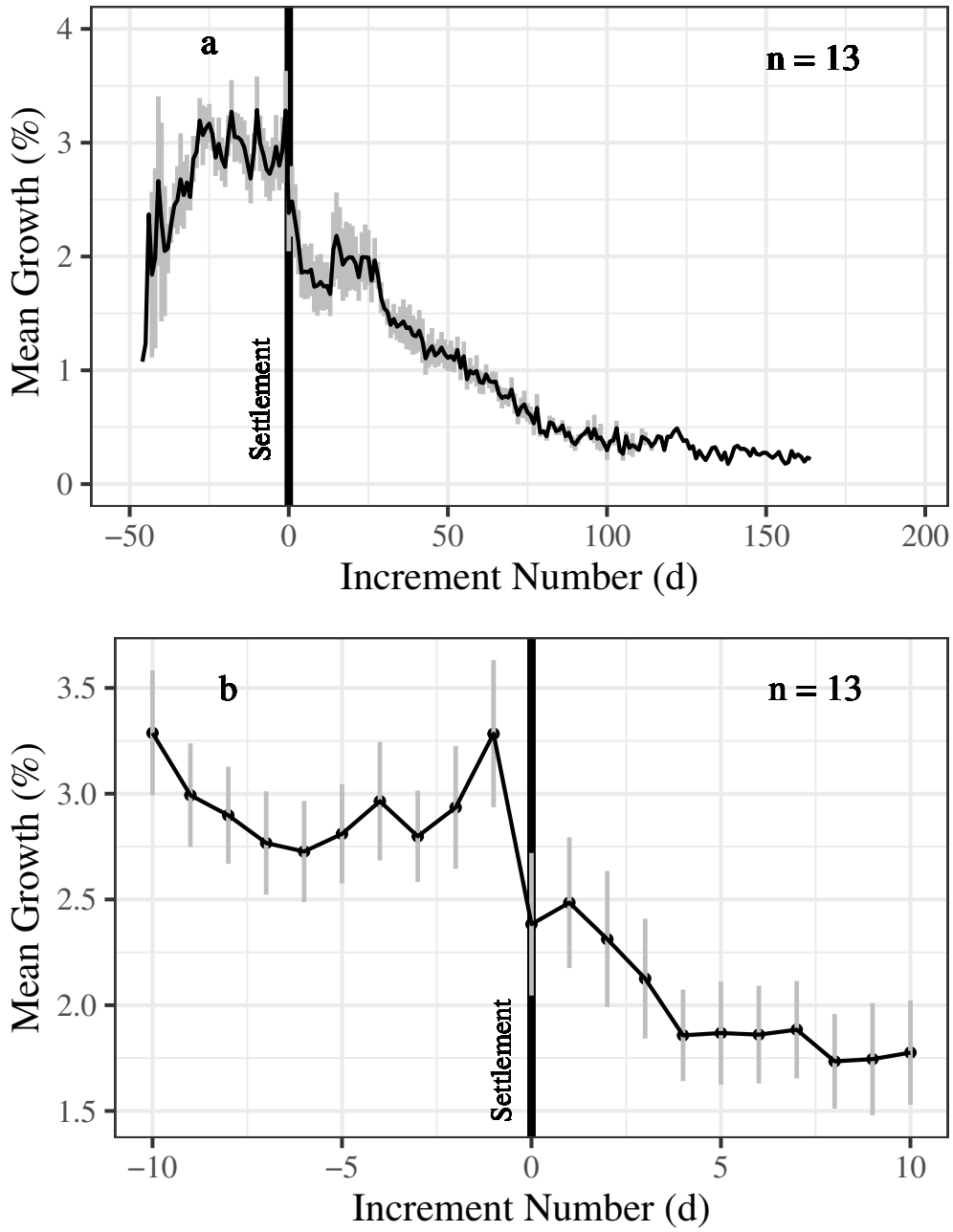

Fig. S5. Average daily growth (±1 SE) profile of *C. personatus*. Increment numbers (days, d) are centered around the settlement mark at 0. Negative increment numbers indicate larval increments while positive increment numbers indicate post-settlement increments. (a) Entire life history profile. (b) Close-up profile of the settlement transition, 10 d pre- and post-settlement

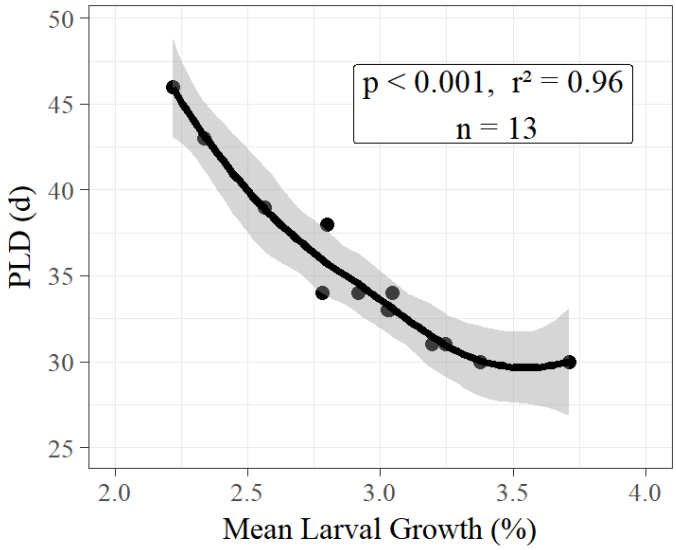

Fig. S6. Inverse relationship between *C. personatus* average larval growth and pelagic larval duration (PLD) (days, d) modeled by a spline smooth. Shaded area is 95% confidence interval

LITERATURE CITED

Cole KS, Robertson RD (1988) Protogyny in the Caribbean reef goby, *Coryphopterus personatus*: Gonad ontogeny and social influences on sex-change. Bull Mar Sci 42: 317–333