**Supplementary Material 1.** Haplotype generation of Ariidae diversity in the Coastal Amazon.

**COI**

Number of sequences used: 57

Number of haplotypes, h: 25

Haplotype diversity, Hd: 0,9586

Hap\_1: 5 [*Notarius phrygiatus* 4; *Notarius phrygiatus* 6; *Notarius phrygiatus* 7; *Notarius quadriscutis* 4; *Notarius quadriscutis* 5]

 Hap\_2: 5 [*Notarius rugispinis* 1; *Notarius rugispinis* 2; *Notarius rugispinis* 3; *Notarius rugispinis* 4; *Notarius rugispinis* 5]

 Hap\_3: 2 [*Notarius quadriscutis* 1; *Notarius quadriscutis* 3]

 Hap\_4: 1 [*Notarius quadriscutis* 2]

 Hap\_5: 2 [*Bagre bagre* 2; *Bagre bagre* 4]

 Hap\_6: 2 [*Bagre bagre* 3; *Bagre bagre* 5]

 Hap\_7: 1 [*Bagre bagre* 6]

 Hap\_8: 1 [*Cathorops agassizii* 4]

 Hap\_9: 3 [*Cathorops agassizii* 7; *Cathorops agassizii* 8; *Cathorops agassizii* 10]

 Hap\_10: 1 [*Cathorops spixii* 1]

 Hap\_11: 1 [*Cathorops spixii* 2]

 Hap\_12: 2 [*Cathorops spixii* 3; *Cathorops spixii* 5]

 Hap\_13: 1 [*Cathorops spixii* 4]

 Hap\_14: 2 [*Notarius grandicassis* 1; *Notarius grandicassis* 2]

 Hap\_15: 2 [*Notarius grandicassis* 3; *Notarius grandicassis* 4]

 Hap\_16: 1 [*Notarius grandicassis* 5]

 Hap\_17: 1 [*Sciades couma* 1]

 Hap\_18: 3 [*Sciades couma* 2; *Sciades couma* 4; *Sciades couma* 6]

 Hap\_19: 1 [*Sciades couma* 3]

 Hap\_20: 1 [*Sciades couma* 5]

 Hap\_21: 5 [*Sciades herzbergii* 1; *Sciades herzbergii* 2; *Sciades herzbergii* 3; *Sciades herzbergii* 4; *Sciades herzbergii* 5]

 Hap\_22: 6 [*Sciades parkeri* 3; *Sciades parkeri* 4; *Sciades parkeri* 5; *Sciades parkeri* 6; *Sciades parkeri* 7; *Sciades parkeri* 8]

 Hap\_23: 4 [*Sciades passany* 1; *Sciades passany* 2; *Sciades passany* 3; *Sciades passany* 5]

 Hap\_24: 3 [*Sciades proops* 1; *Sciades proops* 4; *Sciades proops* 5]

 Hap\_25: 1 [*Sciades proops* 3]

**Cytb**

Number of sequences used: 57

Number of haplotypes, h: 31

Haplotype diversity, Hd: 0,9668

Hap\_1: 2 [*Notarius phrygiatus* 4; *Notarius quadriscutis* 4]

Hap\_2: 1 [*Notarius phrygiatus* 6]

Hap\_3: 2 [*Notarius phrygiatus* 7; *Notarius quadriscutis* 2]

Hap\_4: 5 [*Notarius rugispinis* 1; *Notarius rugispinis* 2; *Notarius rugispinis* 3; *Notarius rugispinis* 4; *Notarius rugispinis* 5]

 Hap\_5: 1 [*Notarius quadriscutis* 1]

 Hap\_6: 1 [*Notarius quadriscutis* 3]

 Hap\_7: 1 [*Notarius quadriscutis* 5]

 Hap\_8: 1 [*Bagre bagre* 2]

 Hap\_9: 1 [*Bagre bagre* 3]

 Hap\_10: 1 [*Bagre bagre* 4]

 Hap\_11: 1 [*Bagre bagre* 5]

 Hap\_12: 1 [*Bagre bagre* 6]

 Hap\_13: 4 [*Cathorops agassizii* 4; *Cathorops agassizii* 7; *Cathorops agassizii* 8; *Cathorops agassizii* 10]

 Hap\_14: 1 [*Cathorops spixii* 1]

 Hap\_15: 1 [*Cathorops spixii* 2]

 Hap\_16: 1 [*Cathorops spixii* 3]

 Hap\_17: 2 [*Cathorops spixii* 4; *Cathorops spixii* 5]

 Hap\_18: 3 [*Notarius grandicassis* 1; *Notarius grandicassis* 3; *Notarius grandicassis* 4]

 Hap\_19: 1 [*Notarius grandicassis* 2]

 Hap\_20: 1 [*Notarius grandicassis* 5]

 Hap\_21: 1 [*Sciades couma* 1]

 Hap\_22: 1 [*Sciades couma* 2]

 Hap\_23: 3 [*Sciades couma* 3; *Sciades couma* 5; *Sciades couma* 6]

 Hap\_24: 1 [*Sciades couma* 4]

 Hap\_25: 2 [*Sciades herzbergii* 1; *Sciades herzbergii* 5]

 Hap\_26: 1 [*Sciades herzbergii* 2]

 Hap\_27: 1 [*Sciades herzbergii* 3]

 Hap\_28: 1 [*Sciades herzbergii* 4]

 Hap\_29: 6 [*Sciades parkeri* 3; *Sciades parkeri* 4; *Sciades parkeri* 5; *Sciades parkeri* 6; *Sciades parkeri* 7; *Sciades*\_*parkeri* 8]

 Hap\_30: 4 [*Sciades passany* 1; *Sciades passany* 2; *Sciades passany* 3; *Sciades passany* 5]

 Hap\_31: 4 [*Sciades proops* 1; *Sciades proops* 3; *Sciades proops* 4; *Sciades proops* 5]