



Figure 1: Location of the sampling sites ($n = 12$) in the Amazon basin. The 3 major tributaries of the Amazon are labeled, and the water flow directions are identified using arrows. Rivers of interest have been highlighted according to their water type. Water is always flowing toward the East, in the direction of the Amazon. Sites have been identified using their 3-letter acronyms and point colors are consistent with the described water type at a given site. The three genetic gaps detected in the study are also identified by numbers (1-3).