 **S6. Phenogram showing genetic distances among 1,772 SNPs from 10 sampling sites of H. fulgens.** This tree is constructed by the UPGMA method from distance chord. Numbers at the nodes represent the percentage of a group’s occurrence in 5,000 bootstraps. Only those with values higher than 60% are reported. This is an unrooted tree. GI**=** Guadalupe Island, SJI= San Jerónimo Island, FSJ**=** Faro San José, CI**=** Cedros Island,PE= Punta Eugenia, TN= Tortugas North, TS**=** Tortugas South, AN= Asunción North, AS= Asunción South, Bo= Bocana.