

Supplementary Material S1

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<https://species.h-its.org/download/111698/output.PTPMLPartition.txt>

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# Max likelihood partition
Species 1 (support = 0.926)
  Priocharax_varii_LBP96984,Priocharax_varii_LBP96982,Priocharax_varii_LBP96985,Priocharax_varii_LBP96981

Species 2 (support = 0.699)

Priocharax_conwayi_LBP108409,Priocharax_conwayi_LBP108405,Priocharax_conwayi_LBP108408,Priocharax_conwayi_LBP108411,Priocharax_conwayi_LBP108406,Priocharax_conwayi_LBP108407,Priocharax_conwayi_LBP108410,Priocharax_conwayi_LBP108412

Species 3 (support = 0.314)
  Priocharax_marupiaru_LBP108447,Priocharax_marupiaru_LBP108445,Priocharax_marupiaru_LBP108446

Species 4 (support = 0.933)
  Priocharax_ariel_LBP98288,Priocharax_ariel_LBP98284,Priocharax_ariel_LBP98285,Priocharax_ariel_LBP98286,Priocharax_ariel_LBP98287,Priocharax_ariel_LBP96383

Species 5 (support = 0.805)

Priocharax_phasma_LBP108421,Priocharax_phasma_LBP108420,Priocharax_phasma_LBP108418,Priocharax_phasma_LBP108428,Priocharax_phasma_LBP108430,Priocharax_phasma_LBP108429,Priocharax_phasma_LBP108419

Species 6 (support = 0.701)
  Priocharax_britzii_LBP98298,Priocharax_britzii_LBP98295,Priocharax_britzii_LBP98299,Priocharax_britzii_LBP98297,Priocharax_britzii_LBP98296

Species 7 (support = 1.000)
  Priocharax_nanus_LBP98283

Species 8 (support = 0.070)

Priocharax_pygmaeus_LBP96991,Priocharax_pygmaeus_LBP96990,Priocharax_pygmaeus_LBP96998,Priocharax_pygmaeus_LBP96988,Priocharax_pygmaeus_LBP96993,Priocharax_pygmaeus_LBP96987,Priocharax_pygmaeus_LBP96986,Priocharax_pygmaeus_LBP96989,Priocharax_pygmaeus_LBP96992

Species 9 (support = 0.675)

Priocharax_toledopizae_LBP108443,Priocharax_toledopizae_LBP108440,Priocharax_toledopizae_LBP108441,Priocharax_toledopizae_LBP108435,Priocharax_toledopizae_LBP108432,Priocharax_toledopizae_LBP108439
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Figure S1. Maximum Likelihood solution of the Poisson Tree Process model (bPTP) analysis.

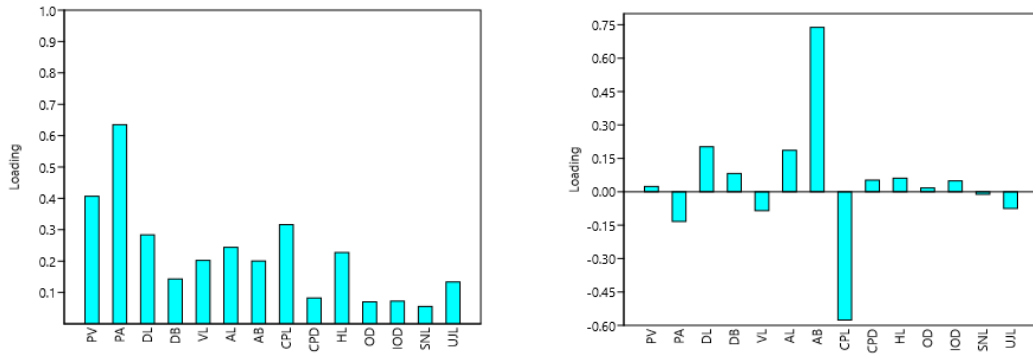


Figure S2. Principal Component Analysis (PCA) loading plots. Loading plot for Principal Component 1 on the left, loading plot for Principal Component 2 on the right. Abbreviations: AB = anal-fin base; AL = anal-fin length; BD = body depth; CPD = caudal-peduncle depth; CPL = caudal-peduncle length; DB = dorsal-fin base; DL = dorsal-fin length; HL = head length; IOD = interorbital width; OD = orbital diameter; PA = pre-anal distance; PD = pre-dorsal distance; PV = pre-pelvic distance; SNL = snout length; UJL = upper jaw length; VL = pelvic-fin length.