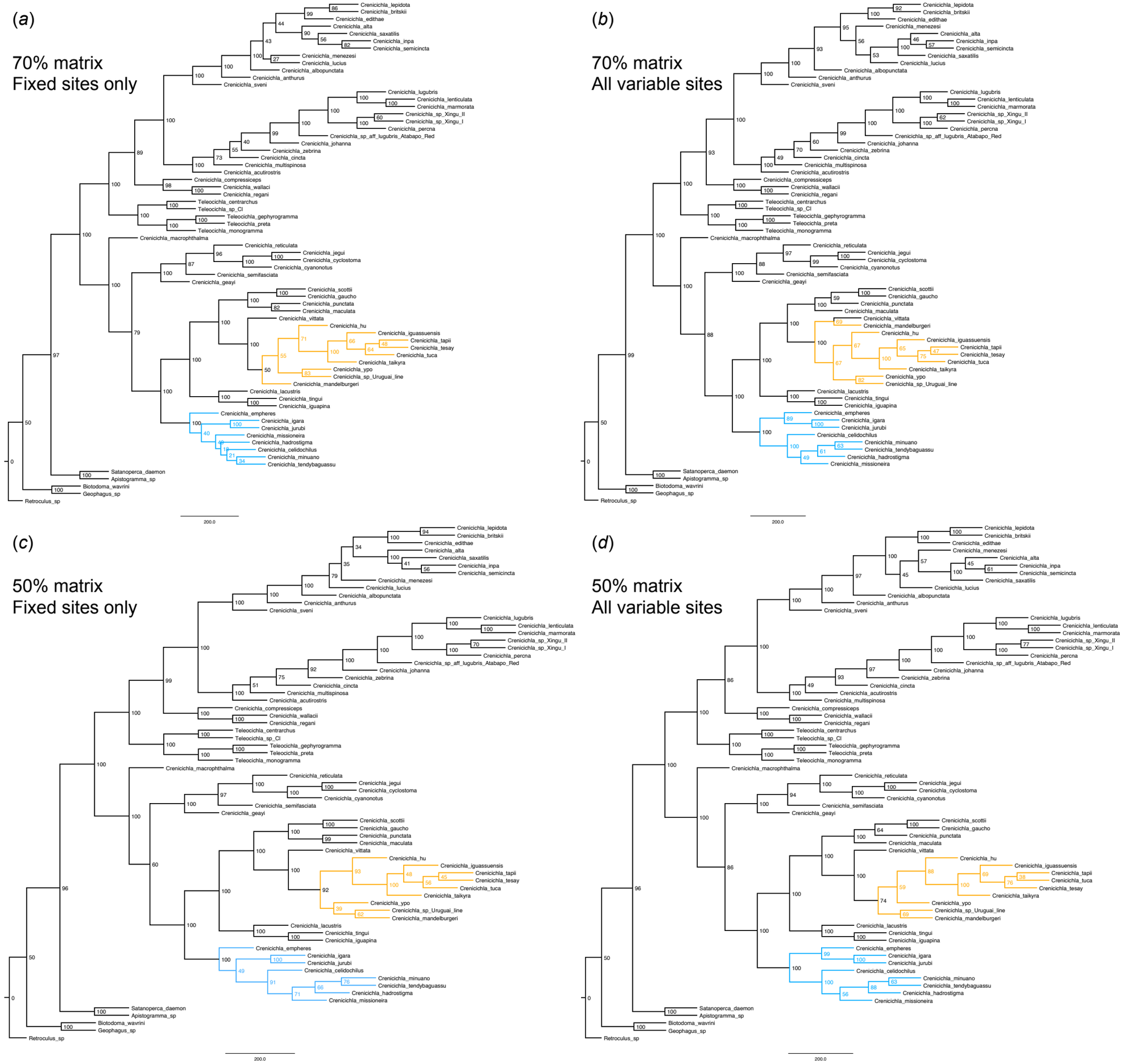

(a)
70% matrix
Fixed sites only
(b)
70% matrix
All variable sites
(c)
50% matrix
Fixed sites only
(d)
50% matrix
All variable sites
Crenicichla_lepidota
Crenicichla_britskii
Crenicichla_edithae
Crenicichla_alta
Crenicichla_saxatilis
Crenicichla_inpa
Crenicichla_semicincta
Crenicichla_menezesi
Crenicichla_lucius
Crenicichla_albopunctata
Crenicichla_anthurus
Crenicichla_sveni
Crenicichla_lugubris
Crenicichla_lenticulata
Crenicichla_marmorata
Crenicichla_sp_Xingu_II
Crenicichla_sp_Xingu_I
Crenicichla_percna
Crenicichla_sp_aff_lugubris_Atabapo_Red
Crenicichla_johanna
Crenicichla_zebrina
Crenicichla_cincta
Crenicichla_multispinosa
Crenicichla_acutirostris
Crenicichla_compressiceps
Crenicichla_wallacii
Crenicichla_regani
Teleocichla_centrarchus
Teleocichla_sp_CI
Teleocichla_gephyrogramma
Teleocichla_preta
Teleocichla_monogramma
Crenicichla_macrophthalma
Crenicichla_reticulata
Crenicichla_jegui
Crenicichla_cyclostoma
Crenicichla_cyanonotus
Crenicichla_semifasciata
Crenicichla_geayi
Crenicichla_scottii
Crenicichla_gaucho
Crenicichla_punctata
Crenicichla_maculata
Crenicichla_vittata
Crenicichla_hu
Crenicichla_iguassuensis
Crenicichla_tapii
Crenicichla_tesay
Crenicichla_tuca
Crenicichla_taikyra
Crenicichla_ypo
Crenicichla_sp_Uruguai_line
Crenicichla_mandelburgeri
Crenicichla_lacustris
Crenicichla_tingui
Crenicichla_iguapina
Crenicichla_empheres
Crenicichla_igara
Crenicichla_jurubi
Crenicichla_missioneira
Crenicichla_hadrostigma
Crenicichla_celidochilus
Crenicichla_minuano
Crenicichla_tendybaguassu
Satanoperca_daemon
Apistogramma_sp
Biotodoma_wavrini
Geophagus_sp
Retroculus_sp
200.0