

#NEXUS

BEGIN TAXA;

TITLE Taxa;

DIMENSIONSntax = 80;

TAXLABELS Acrochordus_arafurae Acrochordus_granulatus Acutotyphlops_infralabialis
Acutotyphlops_kunuaensis Acutotyphlops_solomonis Acutotyphlops_subocularis Afronatrix_anoscopus
Afrotyphlops_angolensis Afrotyphlops_schlegelii Agamodon_anguliceps Amerotyphlops_paucisquamus
Amphisbaena_alba Amphisbaena_fuliginosa Anelytropsis_papillosus Anilius_australis Anilius_bicolor
Anilius_scytale Anomalepis_aspinosus Anomalepis_mexicanus Anomochilus_leonardi
Antillotyphlops_monastus Atractaspis_irregularis Bipes_biporus Bipes_canaliculatus Boa_constrictor
Boaedon_fuliginosus Bothrops_asper Calabaria_reinhardtii Casarea_dussumieri
Cubatyphlops_paradoxus Cylindrophis_ruffus Dibamus_leucurus Dibamus_novaeguineae
Dipsosaurus_dorsalis Epictia_albifrons Eryx_colubrinus Gerrhopilus_ater Gerrhopilus_beddonii
Gerrhopilus_persephone Helminthophis_praeocularis Homalopsis_buccata Indotyphlops_braminus
Lanthanotus_borneensis Liotyphlops_albirostris Liotyphlops_argaleus Liotyphlops_beui
Loxocemus_bicolor Lycophidion_capense Myriopholis_longicauda Myriopholis_macrorhyncha
Myriopholis_tanae Naja_naja Namibiana_occidentalis Natrinx_natrinx Pareas_hamptoni
Physignathus_cocincinus Python_molurus Python_regius Ramphotyphlops_depressus
Ramphotyphlops_lineatus Rena_dulcis Rena_myopica Rhineura_floridana Sauromalus_ater
Thamnophis_radix Tricheilostoma_bicolor Trilepida_dimidiata Trogonophis_wiegmanni
Typhlops_squamosus Typhlops_jamaicensis Typhlops_titanops Ungaliophis_continentalis
Uranoscodon_superciliosus Uropeltis_melanogaster Uropeltis_woodmasoni Varanus_exanthematicus
Xenopeltis_unicolor Xenotyphlops_grandidieri Xerotyphlops_vermicularis Sphenodontidae;

END;

BEGIN TREES;

TITLE SquamatePhyloSpecies;

LINK TAXA = Taxa;

TREE SquamateTreeSpecies =

((((((((((((((Afronatrix_anoscopus:27.29,(Thamnophis_radix:18.76,Natrinx_natrinx:18.76):8.53):19.94,((Atractaspis_irregularis:36.58,(Boaedon_fuliginosus:24.07,Lycophidion_capense:24.07):12.51):2.81,Naja_naja:39.39):7.84):2.75,Homalopsis_buccata:49.98):9.52,Bothrops_asper:59.5):3.98,Pareas_hamptoni:63.48):23.84,(Acrochordus_arafurae:0.83,Acrochordus_granulatus:0.83):86.49):11.3,(((Boa_constrictor:58.0,Eryx_colubrinus:58.0):2.43,Ungaliophis_continentalis:60.43):11.71,Calabaria_reinhardtii:72.14):24.92,(((Python_molurus:30.13,Python_regius:30.13):31.93,Loxocemus_bicolor:62.06):26.3,Xenopeltis_unicolor:88.36):7.36,Casarea_dussumieri:95.72):1.34):0.97,((Cylindrophis_ruffus:27.27,Anomochilus_leonardi:27.27):48.67,(Uropeltis_melanogaster:55.34,Uropeltis_woodmasoni:55.34):20.6):22.09):0.59):3.68,Anilius

_scytale:102.3):25.27,(Anomalepis_aspinosus:57.73,Anomalepis_mexicanus:57.73,Helminthophis_praeocularis:57.73,Liotyphlops_argaleus:57.73,Liotyphlops_albirostris:57.73,Liotyphlops_beui:57.73,Typhlops_is_squamosus:57.73):69.84):2.23,((((Afrotyphlops_angolensis:1.9,Afrotyphlops_schlegelii:1.9):48.4,(((Typhlops_titanops:8.2,Typhlops_jamaicensis:8.2):8.2,Antillotyphlops_monastus:16.4):6.9,Cubatyphlops_paradoxus:23.3):6.9,Amerotyphlops_paucisquamus:30.2):20.1):12.7,((((Anilios_australis:16.3,Anilios_bicolor:16.3):24.1,(Acutotyphlops_solomonis:39.3,Acutotyphlops_infralabialis:39.3,Acutotyphlops_kunuaensis:39.3,Acutotyphlops_subocularis:39.3):1.1):1.1,(Ramphotyphlops_depressus:37.0,Ramphotyphlops_lineatus:37.0):4.5):3.3,Indotyphlops_braminus:44.8):8.2,Xerotyphlops_vermicularis:53.0):10.0):17.6,Xenotyphlops_grandidieri:80.6):9.8,(Gerrhopilus_persephone:10.41,Gerrhopilus_beddomei:10.41,Gerrhopilus_ater:10.41):79.99):34.07,((Namibiana_occidentalis:30.4,(Myriopholis_macrorhyncha:15.2,Myriopholis_tanae:15.2,Myriopholis_longicauda:15.2):15.2):30.4,(((Rena_myopica:17.37,Rena_dulcis:17.37):17.37,Trilepida_dimidiata:34.74):8.68,Epictia_albifrons:43.42):8.68,Tricheilostoma_bicolor:52.1):8.68):63.67):5.33):45.35,((Varanus_exanthematicus:58.42,Lanthanotus_borneensis:58.42):115.24,((Uranoscodon_superciliosus:95.77,(Sauromalus_ater:56.86,Dipsosaurus_dorsalis:56.86):38.91):62.03,Physignathus_cocincinus:157.8):15.86):1.49):4.04,(((Amphisbaena_alba:34.86,Amphisbaena_fuliginosa:34.86):12.76,(Agamodon_anguliceps:23.81,Trogonophis_wiegmanni:23.81):23.81):29.78,(Bipes_biporus:13.38,Bipes_canaliculatus:13.38):64.02):29.29,Rhineura_floridana:107.19):72):14.04,((Dibamus_novaeguineae:35.0,Anelytropsis_papillosus:35.0):35.0,Dibamus_leucurus:70.0):123.23):48.27,Sphenodontidae:241.5);

END;

BEGIN CHARACTERS;

TITLE Character_Matrix;

DIMENSIONS nchar=3;

FORMAT DATATYPE = standard GAP = - MISSING = N SYMBOLS = " 1 2 3 4 5 6 7";

CHARSTATELABELS

1 FeedingMorphotype_Basic / [1]micro [2]macro,

2 FeedingMorphotype_DetailedMicro / [1]microMinKin [2]microSnoutShift
[3]microAxleBrace [4]microMandRak [5]microSingleAxle [6]macro,

3 FeedingMorphotype_DetailedMicroMacro / [1]microMinKin [2]microSnoutShift
[3]microAxleBrace [4]microMandRak [5]microSingleAxle [6]macroBooid [7]macroCaeno ;

MATRIX

Sphenodontidae ---

Acrochordus_arafurae 267

Acrochordus_granulatus 267

<i>Acutotyphlops_infralabialis</i>	155
<i>Acutotyphlops_kunuaensis</i>	155
<i>Acutotyphlops_solomonis</i>	155
<i>Acutotyphlops_subocularis</i>	155
<i>Afronatrix_anoscopus</i>	267
<i>Afrotyphlops_angolensis</i>	155
<i>Afrotyphlops_schlegelii</i>	155
<i>Agamodon_anguliceps</i>	111
<i>Amerotyphlops_paucisquamus</i>	155
<i>Amphisbaena_alba</i>	111
<i>Amphisbaena_fuliginosa</i>	111
<i>Anelytropsis_papillosus</i>	111
<i>Anilios_australis</i>	155
<i>Anilios_bicolor</i>	155
<i>Anilius_scytale</i>	122
<i>Anomalepis_aspinosus</i>	133
<i>Anomalepis_mexicanus</i>	133
<i>Anomochilus_leonardi</i>	122
<i>Antillotyphlops_monastus</i>	155
<i>Atractaspis_irregularis</i>	267
<i>Bipes_biporus</i>	111
<i>Bipes_canaliculatus</i>	111
<i>Boa_constrictor</i>	266
<i>Boaedon_fuliginosus</i>	267
<i>Bothrops_asper</i>	267
<i>Calabaria_reinhardtii</i>	266
<i>Casarea_dussumieri</i>	266
<i>Cubatyphlops_paradoxus</i>	155
<i>Cylindrophis_ruffus</i>	122

Dibamus_leucurus	111
Dibamus_novaeguineae	111
Dipsosaurus_dorsalis	111
Epictia_albifrons	144
Eryx_colubrinus	266
Gerrhopilus_ater	155
Gerrhopilus_beddomii	155
Gerrhopilus_persephone	155
Helminthophis_praeocularis	133
Homalopsis_buccata	267
Indotyphlops_braminus	155
Lanthanotus_borneensis	111
Liotyphlops_albirostris	133
Liotyphlops_argaleus	133
Liotyphlops_beui	133
Loxocemus_bicolor	266
Lycophidion_capense	267
Myriopholis_longicauda	144
Myriopholis_macrorhyncha	144
Myriopholis_tanae	144
Naja_naja	267
Namibiana_occidentalis	144
Natrix_natrix	267
Pareas_hamptoni	267
Physignathus_cocincinus	111
Python_molurus	266
Python_regius	266
Ramphotyphlops_depressus	155
Ramphotyphlops_lineatus	155

Rena_dulcis	144
Rena_myopica	144
Rhineura_floridana	111
Sauromalus_ater	111
Thamnophis_radix	267
Tricheilostoma_bicolor	144
Trilepida_dimidiata	144
Trogonophis_wiegmanni	111
Typhlophis_squamosus	133
Typhlops_jamaicensis	155
Typhlops_titanops	155
Ungaliophis_continentalis	266
Uranoscodon_superciliosus	111
Uropeltis_melanogaster	122
Uropeltis_woodmasoni	122
Varanus_exanthematicus	111
Xenopeltis_unicolor	266
Xenotyphlops_grandidieri	155
Xerotyphlops_vermicularis	155

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END;