

#NEXUS

[written Thu Feb 09 11:17:18 CET 2023 by Mesquite version 3.70 (build 940)]

BEGIN TAXA;

TITLE Taxa;

DIMENSIONS NTAX=52;

TAXLABELS

Achenomorphus Astenus 'Astenus_USA' Cyliandroxystus
Dibelonetes Diochus Domene Dysanabatium Echiaster Enallagium Eustilicus
Haplomazeris Hyperomma Lathrobium Leptobium Lithocharis Lobrathium
Lordithon Medon 'Medonina_Russia' Neolindus Neosclerus Notobium
Ochtheophilum Oedichirus Orus Oxyporus Paederus Pinophilus Pseudolathra
Pseudomedon Quedius Ronetus Rugilus Sciocharis Scioporus Scopaeus
Stilicoderus Stilicopsis Suniotrichus Sunius Tachyporus Tetartopeus
Thinocharis Thyreocephalus Acanthoglossa Diminudon Luzea Micrillus
'Midinudon_gen_nov' Ophioomma Scymbalium

;

END;

BEGIN CHARACTERS;

TITLE Character_Matrix;

DIMENSIONS NCHAR=121;

FORMAT DATATYPE = STANDARD RESPECTCASE GAP = - MISSING = ? SYMBOLS

= " 0 1 2 3 4 5";

CHARSTATELABELS

1 'Antennae, form' / 'non-geniculate' geniculate,
2 'Antennae, base of antennomere 1' /
concealed_to_different_extent_thus_not_fully_visible_from_above
fully_exposed_and_visible_from_above,
3 'Head, ''shelf'' concealing antennal bases, presence' /
absent present,
4 'Antennae, antennomere 3, tomentose pubescence, presence' /
absent present,
5 'Antennae, antennomere 4, tomentose pubescence, presence' /
absent present,
6 'Antennae, antennomeres 9 and 10, each of them, shape' /
'elongated, filiform, thin' 'elongated, egg or funnel shaped'
wider_than_long,
7 'Antennae, antennomere 11, shape' / radially_symmetrical
radially_asymmetrical,
8 'Antennae, setation' /
without_long_setae_extending_perpendicular_to_the_antennal_axis
with_long_setae_extending_perpendicular_to_the_antennal_axis,
9 'Antennae, distance between bases' /
_longer_than_distance_from_base_of_antenna_to_anterior_margin_of_eye
equal_to_or_smaller_than_distance_from_base_of_antenna_to_anterior_margin
_of_eye,
10 'Eyes, setae between ommatidia, presence' / absent
present,
11 'Head, Y-shaped longitudinal grooves on dorsal surface
between eyes, presence' / absent present,
12 'Head, labrum, shape' / 'quadrate/rectangular, width less
than twice the length' 'transverse, width equal to twice the length or
broader',

13 'Head, labrum, size' / 'not expanded, at least half of mandibles visible when closed' 'expanded, almost or completely covering mandibles when closed',
 14 'Head, labrum, development' / entire
 notched_to_different_extent dentate,
 15 'Head, labrum, depth of emargination' / 'shallow, basally not reaching membrane connecting labrum with frons (frontoclypeus)' 'deep, basally extended through membrane connecting labrum with frons (frontoclypeus)',
 16 'Head, labrum, apical membrane, presence' / absent
 present,
 17 'Head, labrum, attachment to frons (frontoclypeus)' /
 with_distinct_membrane_between_frons_and_base_of_labrum
 without_distinct_membrane_between_frons_and_base_of_labrum,
 18 'Head, maxillary palpomere 3, shape' / 'elongated, regular' 'expanded, more fusiform' 'slightly expanded, vase-like',
 19 'Head, maxillary palpomere 4, shape' / fusiform conical 'nipple-like, elongate' 'small, acicular' 'truncate, short' securiform,
 20 'Head, maxillary palpomere 4, width' /
 narrower_than_palpomere_3 as_wide_or_almost_as_wide_as_palpomere_3
 wider_than_palpomere_3,
 21 'Head, maxillary palpomeres 3 and 4, length' /
 palpomere_3_equal_to_or_shorter_than_4 palpomere_3_longer_than_4,
 22 'Head, maxillary palpomere 4, setation' /
 glabrous_or_at_most_sparsely_setose densely_setose,
 23 'Head, labial palpomeres 2 and 3, length' /
 palpomere_2_equal_to_or_longer_than_3 palpomere_2_shorter_than_3,
 24 'Head, ligula, development' / bilobed entire reduced
 trilobed,
 25 'Head, ligula, dorsal plate, setation' / absent present,
 26 'Labial palpomere 3, width' / same_as_palpomere_2
 thinner_than_palpomere_2 wider_than_palpomere_2,
 27 'Head, mandibles, projection' /
 strongly_projected_anteriorly bent_laterally,
 28 'Head, mandibles, dorso-lateral groove, presence' /
 absent present,
 29 'Head, mandibular protheca, presence' / present absent,
 30 'Head, mandibles, teeth, presence' / present absent,
 31 'Head, mandibles, shape' / 'stout (at least twice as wide at base as width at apical portion)' 'thin (as wide at base as apical portion or slightly wider)',
 32 'Head, mandibles, left vs right' / 'mandibles symmetrical (but size of same teeth may slightly differ on left and right mandible)' 'mandibles asymmetrical (when size, shape or sometimes number of teeth clearly differ on left and right mandible)',
 33 'Head, frons (i.e. the area of the head between eyes), punctation' / more_sparse_than_on_the_rest_of_head
 as_on_the_rest_of_head,
 34 'Head, dorsal surface, pair(s) of trichobothria, presence' /
 absent present,
 35 'Head, integument, presence' / smooth with_microsculpture,
 36 'Head, dorsal side, punctation' /
 lack_of_distinctive_punctation_or_surface_smooth rugose,
 37 'Head, ventral basal ridge, development' /
 underdeveloped_or_absent fully_developed,
 38 'Head, infraorbital ridge, presence' / absent present,
 39 'Head, postgenal ridge, presence' / absent present,

40 'Head, nuchal ridge, presence' / present absent,
 41 'Head, posterior margin, temples, shape' / straight
 rounded,
 42 'Head, ventral, gular sutures, development ' / 'fully
 separated, but relatively close' partially_fused fully_fused absent
 wide_apart,
 43 'Head, gular sutures, development at base of gula' /
 'continue through neck to posterior margin of head (posterior orifice)'
 'become indistinct (fade) not reaching posterior margin of head',
 44 'Neck, postoccipital suture vs. gula' / 'postoccipital
 suture do not cross gular sutures, not distinct at base of gula'
 postoccipital_suture_crosses_gular_sutures_and_continues_through_base_of_
 gula_,
 45 'Neck, width' / 'very narrow, equal or less than 1/5 of
 head width' 'narrow, equal or less than 1/3 of head width' 'regular,
 equal or less than 1/2 of head width' 'wide, more than 1/2 of head width'
 'very wide, as wide as head',
 46 'Dense hair on head, pronotum and elytra, presence' /
 absent present,
 47 'Head vs. pronotum, width' /
 head_narrower_or_as_wide_as_pronotum head_wider_than_pronotum,
 48 'Head vs. pronotum, length' /
 head_shorter_or_as_long_as_pronotum head_longer_than_pronotum,
 49 'Pronotum, length' / wider_than_long_or_quadrate
 longer_than_wide,
 50 'Pronotum, widest at' / base
 apex_or_anterior_to_its_middle middle same_width_everywhere,
 51 'Pronotum, front angles in dorsal view' /
 not_producing_over_anterior_margin_of_pronotum
 producing_over_anterior_margin_of_pronotum,
 52 'Pronotum, front angles, shape' / regular 'obtuse (apex
 of pronotum with neck-like projection)',
 53 'Pronotum, midline, punctation' / 'less punctation than
 the rest of pronotum, often appears impunctate' 'as punctated as the rest
 of pronotum (or not punctated if no punctation in general)',
 54 'Prothorax, antesternal plates, development' / absent
 present sclerotised_membrane_in_place_of_plates,
 55 'Prothorax, additional sclerotisation on anterior margin
 of prosternum, presence' / absent present,
 56 'Pronotum, superior marginal line, development' /
 not_deflexed deflexed absent,
 57 'Pronotum, superior marginal line vs. inferior line' /
 not_meeting_each_other meeting_or_very_close_to_each_other,
 58 'Pronotum, postcoxal process of hypomeron, development: '
 / well_developed_and_sclerotised 'translucent, somewhat flexible, or
 absent',
 59 'Prothorax, front angles of pronotum vs. prosternum in
 ventral view' /
 front_angles_not_produced_beyond_the_meeting_point_of_prosternum_and_pron
 otum
 front_angles_produced_beyond_the_meeting_point_of_prosternum_and_pronotum
 ,
 60 'Prosternum, pronotosternal suture, development' /
 well_developed poorly_developed_or_absent,
 61 'Prosternum, basisternum, surface ' / smooth
 with_punctation_or_wrinkled,

62 'Prosternum, basisternum, transversal carina, presence' /
absent present,

63 'Prosternum, basisternum, longitudinal median carina,
presence' / absent present,

64 'Prosternum, furcasternum, sharp longitudinal carina,
presence' / present absent,

65 'Prosternum, furcasternum, transversal carina, presence' /
absent present,

66 'Prosternum, furcasternum, relative extension basad' /
'less extended - its pointy edge does not reach the level of the tip of
postcoxal process' 'more extended - its pointy edge reaches the level of
the tip of postcoxal process',

67 'Prosternum, furcasternum, lateral extension' /
not_expanded_under_anterior_coxae expanded_under_anterior_coxae,

68 'Prosternum, furcasternum, length' / 'longer than 1/2 of
basisternum length' 'shorter or equal to 1/2 of basisternum length'
longer_than_basisternum,

69 'Prosternum, furcasternum, shape' / triangular
rectangular,

70 'Prothorax, prosternum, prosternal apophysis as clear
invagination, presence' / present absent,

71 'Mesospiracular peritremes, development' / distinct
reduced,

72 'Mesothorasic membrane (area under anterior coxae), degree
of sclerotisation' / 'soft, without strongly sclerotised areas'
with_strongly_or_fully_sclerotised_areas_embedding_spiracles 'not
visible, hidden behind furcasternum',

73 'Mesosternum, sterno-pleural sutures, shape' / 'curved,
converging towards each other in their basal (closer to prepectus) half'
'curved, running parallel to each other in their basal (closer to
prepectus) half' 'straight, running transversely along entire extension',

74 'Mesosternum, sterno-pleural sutures, basal end' /
ending_at_prepectus 'ending before (not reaching) prepectus',

75 'Mesosternum, basisternum, longitudinal carina, presence' /
absent present,

76 'Mesosternum, furcasternum, longitudinal intercoxal
carina, presence' / present absent,

77 'Mesosternum, transversal carina between sterno-pleural
sutures' / straight_or_interrupted_in_the_middle 'pointed apicad
(towards abdomen)' 'pointed or curved basad (towards prothorax)' absent,

78 'Mesosternum, lateral ridges near (apicad from) prepectus,
presence and/or number' / absent 'present, single' 'present, double',

79 'Mesosternum, connection to metasternum' /
mesosternum_clearly_separated_from_metasternum_by_a_membrane 'mesosternum
separated from metasternum by suture, no membrane'
mesosternum_completely_fused_to_metasternum,

80 'Mesosternum, ridge below coxal rests, presence' /
present absent,

81 'Mesothorax, scutellum, scutellar ridge(s), presence' /
absent only_one_present both_anterior_and_posterior_present,

82 'Mesothorax, elytron, humeral spines or spine-like setae,
presence' / absent present,

83 'Mesothorax, elytra, epipleuron, marginal ridge, presence'
/ present absent,

84 'Mesothorax, epipleuron, additional ridge (in addition to
marginal ridge), presence' / absent present,

85 'Mesothorax, elytra, overlap' / absent present,

86 'Mesothorax, elytra, elongated elytra bases' / absent
 present,
 87 'Protibia, comb-like rows of setae, presence' / present
 absent,
 88 'Protibia, comb-like rows of setae, position relative to
 the long axis of tibia' / transversally diagonally longitudinally,
 89 'Protibia, comb-like rows of setae, number of fully
 developed rows' / 2 3 4 more,
 90 'Protibia, comb-like rows of setae, number of setae' /
 up_to_3 many 'no setae, spines instead',
 91 'Protibia, comb-like rows of setae, position on the tibia
 ' / closer_to_tarsus closer_to_femur_or_equal_distance,
 92 'Protibia, expanded area for comb-like rows of setae,
 presence' / absent present,
 93 'Protarsus, basal four tarsomeres, compared to those of
 meso- and metatarsi, width' / 'narrower or equal to meso- and
 metatarsomeres' 'wider, at most twice as wide as meso- and
 metatarsomeres' 'more than twice as wide as meso- and metatarsomeres',
 94 'Protarsus, dense pale adhesive setae underneath,
 presence' / present absent,
 95 'Protarsus, tarsomere 4' / bilobed not_bilobed,
 96 'Mesotibia, outer edge, thorns, presence' / present
 absent,
 97 'Mesotibiae, outer side, long bristles, presence' /
 present_ absent,
 98 'Mesotarsomere 1, length' /
 equal_to_or_longer_than_mesotarsomere_2 shorter_than_mesotarsomere_2,
 99 'Meso- and metatarsomere 4' /
 similar_to_the_proceeding_one 'modified, either widened or bilobed, with
 dense pale of adhesive setae underneath',
 100 'Metacoxa, suture' / absent present different_surface,
 101 'Metatibia, apical ctenidium, presence' / absent
 present,
 102 'Metatibia, apical ctenidium, position' /
 on_both_anterior_and_posterior_faces_on_one_side_only,
 103 'Metatibia, width' / same_along_whole_length
 apically_expanded,
 104 Tarsal_formula / '5-5-5' '4-4-4',
 105 'Metatarsomere 1, length' /
 equal_to_or_longer_than_metatarsomere_2 shorter_than_metatarsomere_2,
 106 'Metatarsi, tarsomeres 1 and 5, length' /
 tarsomere_1_shorter_than_5 tarsomere_1_equal_to_or_longer_than_5,
 107 'Metatarsi, tarsomeres 4 and 5, length' /
 tarsomere_4_equal_to_or_shorter_than_5 tarsomere_4_longer_than_5,
 108 'Metatarsi, tarsomere 5 vs tarsomeres 2-4, length' /
 'tarsomere 5 equal to 2-4 combined' 'tarsomere 5 shorter than 2-4
 combined',
 109 'Tarsi, empodial setae, length' /
 longer_or_equal_to_claws_half_or_less_shorter_than_claws,
 110 'Elytra, row of setae on the edge of the posterior
 margin, presence' / absent present,
 111 'Hind wing, venation, MP3 vein, presence' / present
 absent apterous,
 112 'Hind wing, venation, veins MP4 and CuA, development ' /
 completely_separated largely_or_completely_fused apterous,
 113 'Abdomen, tergite 1, protergal glands, presence' /
 absent present,

114 'Abdomen, tergites IV-VII, paratergites, presence' /
 present absent,
 115 'Abdomen, segment VII, separation' /
 tergite_and_sclerite_separated tergite_and_sclerite_fused,
 116 'Intersegmental membrane, pattern of sclerites' /
 'regular, brick-wall, sclerites hexagonal, rectangular or quadrangular'
 'irregular, angular (mostly triangular) sclerites' 'irregular, rounded
 sclerites' 'small, quadrangular sclerites' no_pattern,
 117 'Intersegmental membrane, sclerites, degree of
 sclerotisation' / weakly_sclerotised strongly_sclerotised,
 118 'Abdomen, sternite III, keel between metacoxae, presence'
 / present absent,
 119 'Abdomen, sternite IV, anteromedian gland, presence' /
 absent present,
 120 'Abdomen, tergites IX, shape' / 'produced into flat,
 apically obtuse to sharp, sometimes with spine-like process' 'produced
 into inflated, apically sharp process' 'produced into inflated, apically
 obtuse or rounded process',
 121 'Male, aedeagus, paired parameres, presence' / present
 highly_reduced_or_absent present_but_fused_into_one ;
 MATRIX
 Achenomorphus
 0011110101010100003010001010000010101000001121000100000110011110110001001
 100020020000102001000111002110001010100000000001
 Astenus
 0011111000010200113010000110101010011000121111111101101110011100011211121
 100022110000102001000011012110001110011000000001
 'Astenus_USA'
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 100022110000102001000011012110001110?--000000001
 Cylindroxystus
 0010110100010100012010000010011000001000041120001200000110001010100001001
 110221020010101101010111002100000000011010000011
 Dibelonetes
 00111110000112001130100101101010100110001211111110101101100011110011211121
 10022000000102001000011012110001010011000000001
 Diochus
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 Domene
 0011110100000100021010001010000010010000101110001101100100001000100001001
 1101200200101002011101111021010100000--000000011
 Dysanabatium
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 110120000000100311010010002100000010011000000001
 Echiaster
 00100201010112001130100101101011100110001211011112011002-
 00111000112111211001201201001020010011110021100010100--000000001
 Enallagium
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 Eustilicus
 0011110101011200023010000111100110111000021101101101100100011010110000001
 100210010000102011000111002110001010100000000001
 Haplonazeris
 0011110101010200013010011110101110111000120111101101100110011010111010121
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Hyperomma
0011110100010100022110100010000000001000100030001200000100011000000001011
1002100200101000010001010001000010100--000000110

Lathrobium
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1101200200001002011101101021010100000--000000011

Leptobium
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1002200200001003110101010011000010101--000000110

Lithocharis 00111101010100-
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0010001110021100010101--000001001

Lobrathium
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110120020010100201110110102101010000000000000011

Lordithon 01000201000000-
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----011010000-0001011100000400000

Medon
0010020101010200013010000110100110001000001121000100000100011000110001001
110220020000102001000111002110001010011000000001

'Medonina_Russia'
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100210010000100011000111102110000010111000000001

Neolindus 00100201000100-
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Neosclerus
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Notobium
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110220020010100311010001002100010000100000000000

Ochtheophilum
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Oedichirus
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Orus
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Oxyporus
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Paederus
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Pinophilus
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110210000100100311020111011101001011100000010001

Pseudolathra
0010110100000100011010000010000000101000101120001200000100000010100001001
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Pseudomedon
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Quedius
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00030002110001-----101010000-0001011100100201022

Ronetus
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Rugilus
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Sciocharis
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Scioporus
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100221020000102101010111001100000010000000000?01

Scopaeus
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Stilicoderus
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Stilicopsis 00111110000110-
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Suniotrichus
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Sunius
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Tachyporus 00000111000100-
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----011010000-0001011011000401000

Tetartopeus
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1101200200001002011101101021010100000--000000011

Thinocharis
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100210010100102011000111002110001010111000000001

Thyreocephalus
1000120110110100000100111010000100101000021010101100110111110000000101002
001301111101000020000101102110000011101000101000

Acanthoglossa 00111201010100-
001301000011000010000100000111010100000110011000110001002100210010000102
001010011012110001010111000000001

Diminudon 00111201010000-
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???00111100011010000?1???00000?0?

Luzea
0010120101010200013010011110000100101000001121001100000110011010010001001
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Micrillus
0011110100000110001110000010000000100000000130001100000110010000100001000
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'Midinudon_gen_nov'001??201011000-
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???00111100011010100?????00?00?0?

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Ophioomma
0011110101010100013010000?1??01?10001000001111010100100100011010??0?0??01
100??0?000010200101011100211000101??--00000?0?1
Scymbalium
0010100100000111001110001010000100101000100130001110000100001000100001000
000010020000100311010101002100001010100000000010

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END;
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BEGIN ASSUMPTIONS;
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    TYPESET * UNTITLED    = unord: 1- 121;
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END;
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BEGIN NOTES;
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    SUT    TAXON = 40 NAME = color INTEGER = 4;
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SU  T = 34 C = 1 N = color I = 7;
SU  T = 39 C = 1 N = color I = 13;
SU  T = 52 C = 1 N = color I = 4;

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SU  T = 34 C = 2 N = color I = 7;
SU  T = 39 C = 2 N = color I = 13;
SU  T = 52 C = 2 N = color I = 4;

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SU  T = 34 C = 3 N = color I = 7;
SU  T = 39 C = 3 N = color I = 13;
SU  T = 52 C = 3 N = color I = 4;

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SU  T = 34 C = 4 N = color I = 7;
SU  T = 39 C = 4 N = color I = 13;
SU  T = 52 C = 4 N = color I = 4;

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SU  T = 34 C = 9 N = color I = 7;
SU  T = 39 C = 9 N = color I = 13;
SU  T = 52 C = 9 N = color I = 4;

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SU  T = 34 C = 11 N = color I = 7;
SU  T = 39 C = 11 N = color I = 13;
SU  T = 52 C = 11 N = color I = 4;

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SU  T = 1 C = 12 N = color I = 6;
SU  T = 2 C = 12 N = color I = 6;
SU  T = 4 C = 12 N = color I = 6;
SU  T = 5 C = 12 N = color I = 6;
SU  T = 7 C = 12 N = color I = 6;
SU  T = 9 C = 12 N = color I = 6;
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SU T = 11 C = 90 N = color I = 5;
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SU T = 15 C = 90 N = color I = 5;
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SU T = 21 C = 90 N = color I = 5;
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SU T = 39 C = 90 N = color I = 5;
SU T = 40 C = 90 N = color I = 5;
SU T = 41 C = 90 N = color I = 5;
SU T = 42 C = 90 N = color I = 5;
SU T = 43 C = 90 N = color I = 5;
SU T = 44 C = 90 N = color I = 5;

SU T = 45 C = 90 N = color I = 5;
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SU T = 52 C = 91 N = color I = 4;

SU T = 52 C = 92 N = color I = 4;

SU T = 34 C = 93 N = color I = 7;
SU T = 39 C = 93 N = color I = 13;
SU T = 52 C = 93 N = color I = 4;

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SU T = 39 C = 94 N = color I = 13;
SU T = 52 C = 94 N = color I = 4;

SU T = 1 C = 95 N = color I = 17;
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SU T = 16 C = 95 N = color I = 17;
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SU T = 23 C = 95 N = color I = 17;
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SU T = 30 C = 95 N = color I = 17;
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SU T = 42 C = 95 N = color I = 17;
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SU T = 44 C = 95 N = color I = 17;
SU T = 45 C = 95 N = color I = 17;
SU T = 52 C = 95 N = color I = 17;

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SU T = 39 C = 98 N = color I = 13;
SU T = 52 C = 98 N = color I = 4;

SU T = 52 C = 99 N = color I = 4;

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SU T = 7 C = 100 N = color I = 6;
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SU T = 52 C = 101 N = color I = 4;

SU C = 102 N = color I = 4;
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SU T = 5 C = 102 N = color I = 5;
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SU T = 13 C = 102 N = color I = 5;
SU T = 14 C = 102 N = color I = 5;
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SU T = 32 C = 102 N = color I = 5;
SU T = 34 C = 102 N = color I = 7;
SU T = 37 C = 102 N = color I = 5;
SU T = 39 C = 102 N = color I = 13;
SU T = 41 C = 102 N = color I = 5;
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SU T = 45 C = 102 N = color I = 5;

SU T = 52 C = 102 N = color I = 4;

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 SU T = 52 C = 109 N = color I = 4;

 SU T = 1 C = 111 N = color I = 6;
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 SU T = 39 C = 111 N = color I = 6;
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 SU T = 1 C = 112 N = color I = 6;
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 SU T = 4 C = 112 N = color I = 6;
 SU T = 5 C = 112 N = color I = 6;
 SU T = 7 C = 112 N = color I = 6;
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 SU T = 13 C = 112 N = color I = 6;
 SU T = 14 C = 112 N = color I = 6;
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 SU T = 16 C = 112 N = color I = 6;
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 SU T = 25 C = 112 N = color I = 6;

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SU  T = 26 C = 112 N = color I = 6;
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SU  T = 31 C = 112 N = color I = 6;
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SU  T = 33 C = 112 N = color I = 6;
SU  T = 34 C = 112 N = color I = 6;
SU  T = 37 C = 112 N = color I = 6;
SU  T = 38 C = 112 N = color I = 6;
SU  T = 39 C = 112 N = color I = 6;
SU  T = 40 C = 112 N = color I = 6;
SU  T = 41 C = 112 N = color I = 6;
SU  T = 42 C = 112 N = color I = 6;
SU  T = 43 C = 112 N = color I = 6;
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SU  T = 52 C = 113 N = color I = 4;

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SU  T = 52 C = 115 N = color I = 4;

SU  T = 34 C = 116 N = color I = 7;
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SU  T = 52 C = 116 N = color I = 4;

SU  T = 52 C = 117 N = color I = 4;

SU  T = 34 C = 118 N = color I = 7;
SU  T = 39 C = 118 N = color I = 13;
SU  T = 52 C = 118 N = color I = 4;

SU  T = 34 C = 119 N = color I = 7;
SU  T = 39 C = 119 N = color I = 13;
SU  T = 52 C = 119 N = color I = 4;

END;

BEGIN MESQUITECHARMODELS;
  CharModel my_model (Mk1) =
    rate 1.0 maxState 1;

  ProbModelSet * UNTITLED  = 'Mk1 (est.)': 1- 121;
END;

Begin MESQUITE;
  MESQUITESCRIPTVERSION 2;
  TITLE AUTO;
  tell ProjectCoordinator;
  timeSaved 1675937838413;
  getEmployee #mesquite.minimal.ManageTaxa.ManageTaxa;
  tell It;

```

```

        setID 0 4597810923714763460;
        tell It;
            setSelected 52;
            setDefaultOrder 302 36 292 264 302 101 315 24 43
96 47 148 25 40 33 49 97 297 302 52 272 46 306 29 21 51 63 265 20 299 46
333 43 308 60 150 299 48 40 50 329 294 316 298 12 158 186 156 122 197 159
326;
            attachments ;
        endTell;
    endTell;
    getEmployee
#mesquite.charMatrices.ManageCharacters.ManageCharacters;
    tell It;
        setID 0 3537645405170558061;
        tell It;
            setDefaultOrder 0 1 3 271 3 8 9 10 29 14 193 37
137 38 20 21 22 30 25 270 27 5 31 238 30 124 266 203 33 37 39 40 41 231
71 136 44 252 262 61 207 47 53 54 57 73 62 63 177 64 67 65 67 34 72 37
140 44 76 78 90 81 82 83 84 85 86 88 208 206 93 94 97 99 100 101 103 104
106 107 48 204 111 112 117 114 107 140 158 135 149 144 10 15 14 144 145
185 148 227 188 192 123 120 186 153 154 155 199 122 50 57 210 162 163 157
173 159 16 169 177;
            attachments ;
        endTell;
        mqVersion 370;
        checksumv 0 3 2704420853 null getNumChars 121 numChars
121 getNumTaxa 52 numTaxa 52 short true bits 63 states 63
sumSquaresStatesOnly 24534.0 sumSquares 24534.0 longCompressibleToShort
false usingShortMatrix true NumFiles 1 NumMatrices 1;
        mqVersion;
    endTell;
    getWindow;
    tell It;
        suppress;
        setResourcesState false false 52;
        setPopoutState 400;
        setExplanationSize 0;
        setAnnotationSize 0;
        setFontIncAnnot 0;
        setFontIncExp 0;
        setSize 958 942;
        setLocation 952 0;
        setFont SanSerif;
        setFontSize 10;
        getToolPalette;
        tell It;
        endTell;
        desuppress;
    endTell;
    getEmployee
#mesquite.charMatrices.BasicDataWindowCoord.BasicDataWindowCoord;
    tell It;
        showDataWindow #3537645405170558061
#mesquite.charMatrices.BasicDataWindowMaker.BasicDataWindowMaker;
    tell It;
        getWindow;
        tell It;

```

```

        getTable;
        tell It;
            rowNamesWidth 144;
        endTell;
        setExplanationSize 30;
        setAnnotationSize 60;
        setFontIncAnnot 0;
        setFontIncExp 0;
        setSize 906 830;
        setLocation 952 0;
        setFont SansSerif;
        setFontSize 10;
        getToolPalette;
        tell It;
            setTool
mesquite.charMatrices.BasicDataWindowMaker.BasicDataWindow.ibeam;
        endTell;
        setActive;
        setTool
mesquite.charMatrices.BasicDataWindowMaker.BasicDataWindow.ibeam;
        colorCells
#mesquite.charMatrices.ColorByState.ColorByState;
        tell It;
            setStateLimit 9;
            toggleUniformMaximum on;
        endTell;
        colorRowNames
#mesquite.charMatrices.ColorCells.ColorCells;
        tell It;
            setColor Red;
            removeColor off;
        endTell;
        colorColumnNames
#mesquite.charMatrices.ColorCells.ColorCells;
        tell It;
            setColor Red;
            removeColor off;
        endTell;
        colorText
#mesquite.charMatrices.NoColor.NoColor;
        setBackground White;
        toggleShowNames off;
        toggleShowTaxonNames on;
        toggleTight off;
        toggleThinRows off;
        toggleShowChanges on;
        toggleSeparateLines off;
        toggleShowStates on;
        toggleReduceCellBorders off;
        toggleAutoWCharNames on;
        toggleAutoTaxonNames off;
        toggleShowDefaultCharNames off;
        toggleConstrainCW on;
        toggleBirdsEye off;
        toggleColorOnlyTaxonNames off;
        toggleShowPaleGrid off;
        toggleShowPaleCellColors off;

```

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toggleShowPaleExcluded off;
togglePaleInapplicable on;
togglePaleMissing off;
toggleShowBoldCellText off;
toggleAllowAutosize on;
toggleColorsPanel off;
toggleDiagonal on;
setDiagonalHeight 80;
toggleLinkedScrolling on;
toggleScrollLinkedTables off;
getInfoPanel;
tell It;
    btspOpen false;
    apOpen false;
    fpOpen true;
endTell;
toggleInfoPanel on;
endTell;
showWindow;
getWindow;
tell It;
    forceAutosize;
endTell;
getEmployee
#mesquite.charMatrices.AlterData.AlterData;
tell It;
    toggleBySubmenus off;
endTell;
getEmployee
#mesquite.categ.StateNamesEditor.StateNamesEditor;
tell It;
    makeWindow;
    tell It;
        getTable;
        tell It;
            rowNamesWidth 318;
        endTell;
        setExplanationSize 30;
        setAnnotationSize 20;
        setFontIncAnnot 0;
        setFontIncExp 0;
        setSize 906 870;
        setLocation 952 0;
        setFont SanSerif;
        setFontSize 10;
        getToolPalette;
        tell It;
            setTool
mesquite.categ.StateNamesEditor.StateNamesWindow.ibeam;
endTell;
rowsAreCharacters on;
toggleConstrainChar on;
toggleConstrainCharNum 3;
togglePanel off;
toggleSummaryPanel off;
endTell;
showWindow;

```

```

        endTell;
        getEmployee
#mesquite.categ.StateNamesStrip.StateNamesStrip;
        tell It;
            showStrip off;
        endTell;
        getEmployee
#mesquite.charMatrices.AnnotPanel.AnnotPanel;
        tell It;
            togglePanel off;
        endTell;
        getEmployee
#mesquite.charMatrices.CharReferenceStrip.CharReferenceStrip;
        tell It;
            showStrip off;
        endTell;
        getEmployee
#mesquite.charMatrices.QuickKeySelector.QuickKeySelector;
        tell It;
            autotabOff;
        endTell;
        getEmployee
#mesquite.charMatrices.SelSummaryStrip.SelSummaryStrip;
        tell It;
            showStrip off;
        endTell;
        getEmployee
#mesquite.categ.SmallStateNamesEditor.SmallStateNamesEditor;
        tell It;
            panelOpen true;
        endTell;
    endTell;
endTell;
endTell;
end;

```