

#NEXUS

[written Mon Jan 17 16:03:06 CET 2022 by Mesquite version 3.61 (build 927) at DESKTOP-N6RNHU1/158.195.45.129]

BEGIN TAXA;

TITLE Taxa;

DIMENSIONS NTAX=16;

TAXLABELS

Odaxosaurus_piger Ophisauriscus_quadripes Ophisaurus_holeci
Ophisaurus_harti Ophisaurus_koellikeri Ophisaurus_ventralis
Ophisaurus_roqueprunensis Pseudopus_apodus Pseudopus_annonicus
Pseudopus_ahnikoviensis Pseudopus_laurillardii Anguis_fragilis
Peltosaurus_granulosus Xenosaurus_grandis Shinisaurus_crocodylurus
Smithosaurus_echzellensis

;

END;

BEGIN CHARACTERS;

TITLE Character_Matrix;

DIMENSIONS NCHAR=40;

FORMAT DATATYPE = STANDARD RESPECTCASE GAP = - MISSING = ? SYMBOLS
= " 0 1 2 3 4";

CHARSTATELABELS

1 Osteoderms_attached_to_skull_roof_bones,
2 Lateral_margin_of_frontal,
3 Frontal_ornamented_shield,
4 Posterolateral_process_of_frontal,
5 Parietal_foramen_position,
6 Length_of_area_levis,
7 Anterior_end_of_the_interparietal_sulcus,
8 Anterolateral_process_of_parietal_table,
9 Postfoveal_crest,
10 Muscular_surface,
11 Ventrolateral_surface_of_supratemporal_process,
12 Posterior_margin_of_parietal_table,
13
Anterior_end_of_ventrolateral_ridge_of_supratemporal_process,
14 Shape_of_supratemporal_process,
15 Posterior_section_of_parietal_cranial_crest,
16 The_length_of_dentary_relative_to_mandible,
17 Dentary_surangular_process_in_lateral_view,
18 Dentary_coronoid_process,
19 dentary_surangular_process_termination,
20 splenial_spine,
21
Dentary_angular_process_termination_in_the_aspect_of_coronoid_process,
22
Dentary_angular_process_extending_in_the_aspect_of_alveolar_area,
23 Dentary_surangular_spine_presence,
24 Intramandibular_septum,
25 Tooth_number,
26 Dentition,
27 Coronoid_in_lateral_view,
28 'coronoid_mid-length',
29 Surangular,
30 Anterior_mylohyoid_foramen,

```

31 Anterior_surangular_foramen_position,
32 Angular,
33 posterior_mylohyoid_foramen,
34 Articular,
35 Splenial,
36 'Ornamentation of parietal and frontal bones:',
37 legs,
38 V_shaped_crest,
39 palatal_teeth,
40 'postfrontal - postorbital fusion' ;
MATRIX
Odaxosaurus_piger          1111000001201?1???11010014?????????0?1??
Ophisauriscus_quadrapes    1112000011210000010??1??11111?0010?011?0
Ophisaurus_holeci          111100001121000?????????????????0??1?011??
Ophisaurus_harti           111101102001111001010011111?100011002120
Ophisaurus_koellikeri      111101102001111001010011111100011002120
Ophisaurus_ventralis       1111010020011110010100112111100001002120
Ophisaurus_roqueprunensis  1???01??2001011?0?1100?111?????????0?1??
Pseudopus_apodus           1002010002101011101101011200011100102120
Pseudopus_annonicus        100201000210001?1?1?0101220?????1?0?0?1??
Pseudopus_ahnikoviensis_   112101111221101?0?110011120?????????0?1??
Pseudopus_laurillardi      11210101121010110111000112011?110??0?120
Anguis_fragilis            1111020020011110011101010011100000102120
Peltosaurus_granulosus     1001020002101011001011002401100101?101?0
Xenosaurus_grandis         00101??0021010110110110123011000021?0001
Shinisaurus_crocodilurus   00?01??00??000?0111011101000110011??0011
Smithosaurus_echzellensis  1???02001111101?????????????????????0?0??
;

END;
BEGIN ASSUMPTIONS;
  TYPESET * UNTITLED = unord: 1- 40;

END;

BEGIN MESQUITECHARMODELS;
  ProbModelSet * UNTITLED = 'Mk1 (est.)': 1- 40;
END;

BEGIN NOTES;

  SU T = 7 C = 7 N = color I = 5;

  SU T = 1 C = 9 N = color I = 5;

  SU T = 11 C = 13 N = color I = 5;

  SU T = 7 C = 15 N = color I = 5;

  SU T = 14 C = 28 N = color I = 5;

  SU T = 14 C = 34 N = color I = 5;

END;

Begin MESQUITE;
  MESQUITESCRIPTVERSION 2;

```

```

TITLE AUTO;
tell ProjectCoordinator;
timeSaved 1642431786536;
getEmployee #mesquite.minimal.ManageTaxa.ManageTaxa;
tell It;
    setID 0 2392520115415765815;
    tell It;
        setDefaultOrder 0 1 3 4 5 6 7 9 10 13 14 18 14 18
19 16;
        attachments ;
    endTell;
endTell;
getEmployee
#mesquite.charMatrices.ManageCharacters.ManageCharacters;
tell It;
    setID 0 4562735281850793727;
    tell It;
        setDefaultOrder 49 0 1 3 48 4 5 6 7 8 9 10 11 12
13 15 16 17 18 19 20 53 21 22 23 24 15 27 28 29 30 33 31 33 49 35 36 37
38 39;
        attachments ;
    endTell;
mqVersion 361;
checksumv 0 3 3036947024 null getNumChars 40 numChars
40 getNumTaxa 16 numTaxa 16 short true bits 31 states 31
sumSquaresStatesOnly 2455.0 sumSquares 2455.0 longCompressibleToShort
false usingShortMatrix true NumFiles 1 NumMatrices 1;
mqVersion;
endTell;
getWindow;
tell It;
    suppress;
    setResourcesState false false 100;
    setPopoutState 300;
    setExplanationSize 0;
    setAnnotationSize 0;
    setFontIncAnnot 0;
    setFontIncExp 0;
    setSize 2560 1321;
    setLocation -8 0;
    setFont SanSerif;
    setFontSize 10;
    getToolPalette;
    tell It;
    endTell;
    desuppress;
endTell;
getEmployee
#mesquite.charMatrices.BasicDataWindowCoord.BasicDataWindowCoord;
tell It;
    showDataWindow #4562735281850793727
#mesquite.charMatrices.BasicDataWindowMaker.BasicDataWindowMaker;
tell It;
    getWindow;
    tell It;
        getTable;
        tell It;
            rowNamesWidth 146;

```

```

        endTell;
        setExplanationSize 30;
        setAnnotationSize 20;
        setFontIncAnnot 0;
        setFontIncExp 0;
        setSize 2460 1249;
        setLocation -8 0;
        setFont SanSerif;
        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.TaxonGroupColor.TaxonGroupColor;
        colorColumnNames
#mesquite.charMatrices.CharGroupColor.CharGroupColor;
        colorText
#mesquite.charMatrices.NoColor.NoColor;
        setBackground White;
        toggleShowNames on;
        toggleShowTaxonNames on;
        toggleTight off;
        toggleThinRows off;
        toggleShowChanges on;
        toggleSeparateLines off;
        toggleShowStates on;
        toggleReduceCellBorders off;
        toggleAutoWCharNames on;
        toggleAutoTaxonNames off;
        toggleShowDefaultCharNames off;
        toggleConstrainCW on;
        toggleBirdsEye off;
        toggleShowPaleGrid off;
        toggleShowPaleCellColors off;
        toggleShowPaleExcluded off;
        togglePaleInapplicable on;
        togglePaleMissing off;
        toggleShowBoldCellText off;
        toggleAllowAutosize on;
        toggleColorsPanel off;
        toggleDiagonal on;
        setDiagonalHeight 80;
        toggleLinkedScrolling on;
        toggleScrollLinkedTables off;
    endTell;
    showWindow;
    getWindow;

```

```

        tell It;
            forceAutosize;
        endTell;
        getEmployee
#mesquite.charMatrices.AlterData.AlterData;
        tell It;
            toggleBySubmenus off;
        endTell;
        getEmployee
#mesquite.charMatrices.ColorCells.ColorCells;
        tell It;
            setColor Red;
            removeColor off;
        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;
    getEmployee
#mesquite.charMatrices.ManageCharacters.ManageCharacters;
    tell It;
        showCharacters #4562735281850793727
#mesquite.lists.CharacterList.CharacterList;
    tell It;
        setData 0;
        getWindow;
        tell It;
            useTargetValue off;
            setTargetValue ;

```

```

        newAssistant
#mesquite.lists.DefaultCharOrder.DefaultCharOrder;
        newAssistant
#mesquite.lists.CharListInclusion.CharListInclusion;
        newAssistant
#mesquite.lists.CharListPartition.CharListPartition;
        newAssistant
#mesquite.parsimony.CharListParsModels.CharListParsModels;
        setExplanationSize 30;
        setAnnotationSize 20;
        setFontIncAnnot 0;
        setFontIncExp 0;
        setSize 2460 1249;
        setLocation -8 0;
        setFont SanSerif;
        setFontSize 10;
        getToolPalette;
        tell It;
        endTell;
    endTell;
    showWindow;
    getEmployee
#mesquite.lists.CharListAnnotPanel.CharListAnnotPanel;
    tell It;
        togglePanel off;
    endTell;
endTell;
endTell;
newAssistant
#mesquite.ancstates.SummarizeChgOverTrees.SummarizeChgOverTrees;
    tell It;
        getSummarizer
#mesquite.ancstates.SummarizeChanges.SummarizeChanges;
    tell It;
        suppress ;
        setBranchMode false;
        setHistorySource
#mesquite.ancstates.RecAncestralStates.RecAncestralStates;
    tell It;
        getCharacterSource
#mesquite.charMatrices.CharSrcCoordObed.CharSrcCoordObed;
    tell It;
        setCharacterSource
#mesquite.charMatrices.StoredCharacters.StoredCharacters;
    tell It;
        setDataSet #4562735281850793727;
    endTell;
endTell;
setMethod
#mesquite.parsimony.ParsAncestralStates.ParsAncestralStates;
    tell It;
        setModelSource
#mesquite.parsimony.CurrentParsModels.CurrentParsModels;
        toggleMPRsMode on;
    endTell;
        toggleShowSelectedOnly off;
    endTell;
setCharacter 1;

```

```
        setMaxNumMappings 50;
        setMaxChangesRecorded 10;
        setTreeSource
#mesquite.trees.DefaultTrees.DefaultTrees;
        setNumTrees 3;
        makeWindow;
        tell It;
            setExplanationSize 0;
            setAnnotationSize 0;
            setFontIncAnnot 0;
            setFontIncExp 0;
            setSize 2460 1299;
            setLocation -8 0;
            setFont SanSerif;
            setFontSize 10;
            getToolPalette;
            tell It;
                endTell;
            endTell;
            desuppress ;
        endTell;
    endTell;
endTell;
end;
```