

Table 2S, Supplement

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<taxa id="TaxonSet.atp6_pos1" spec="TaxonSet">

<alignment id="atp6_pos1" spec="FilteredAlignment" data="@Fl26seq-pt7-11401-
123ps4" filter="1-678\3"/>

</taxa>

</trait>

<taxonset idref="TaxonSet.atp6_pos1"/>

</tree>

<tree id="Tree.t:atp8_pos2" spec="beast.evolution.tree.Tree" name="stateNode">

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    </taxonset>
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  <parameter id="clockRate.c:atp8_pos2" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

  <tree id="Tree.t:nd4L_pos3" spec="beast.evolution.tree.Tree" name="stateNode">
    <taxonset id="TaxonSet.nd4L_pos3" spec="TaxonSet">
      <alignment id="nd4L_pos3" spec="FilteredAlignment" data="@F126seq-pt7-11401-123ps4" filter="8757-9051\3"/>
    </taxonset>
  </tree>

  <parameter id="clockRate.c:nd4L_pos3" spec="parameter.RealParameter"
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  <tree id="Tree.t:coi_pos3" spec="beast.evolution.tree.Tree" name="stateNode">
    <taxonset id="TaxonSet.coi_pos3" spec="TaxonSet">
      <alignment id="coi_pos3" spec="FilteredAlignment" data="@F126seq-pt7-11401-123ps4" filter="847-2395\3"/>
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  <parameter id="clockRate.c:coi_pos3" spec="parameter.RealParameter"
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  <tree id="Tree.t:nd2_pos3" spec="beast.evolution.tree.Tree" name="stateNode">
    <taxonset id="TaxonSet.nd2_pos3" spec="TaxonSet">
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  <parameter id="clockRate.c:nd2_pos3" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

  <tree id="Tree.t:coiii_pos2" spec="beast.evolution.tree.Tree" name="stateNode">
    <taxonset id="TaxonSet.coiii_pos2" spec="TaxonSet">
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</tree>

<parameter id="clockRate.c:coiii_pos2" spec="parameter.RealParameter"
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<tree id="Tree.t:nd6_pos3" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.nd6_pos3" spec="TaxonSet">

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<tree id="Tree.t:nd1_pos3" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.nd1_pos3" spec="TaxonSet">

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123ps4" filter="5014-5986\3"/>

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<parameter id="clockRate.c:nd1_pos3" spec="parameter.RealParameter"
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<tree id="Tree.t:coii_pos3" spec="beast.evolution.tree.Tree" name="stateNode">

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<tree id="Tree.t:nd2_pos2" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.nd2_pos2" spec="TaxonSet">

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123ps4" filter="5988-7028\3"/>

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    <parameter id="clockRate.c:nd2_pos2" spec="parameter.RealParameter"
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123ps4" filter="8755-9051\3"/>

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    <tree id="Tree.t:coi_pos2" spec="beast.evolution.tree.Tree" name="stateNode">

        <taxonset id="TaxonSet.coi_pos2" spec="TaxonSet">

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    <tree id="Tree.t:nd1_pos1" spec="beast.evolution.tree.Tree" name="stateNode">

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<tree id="Tree.t:nd4_pos1" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.nd4_pos1" spec="TaxonSet">
        <alignment id="nd4_pos1" spec="FilteredAlignment" data="@F126seq-pt7-11401-123ps4" filter="7378-8754\3"/>
    </taxonset>

</tree>

<parameter id="clockRate.c:nd4_pos1" spec="parameter.RealParameter"
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<tree id="Tree.t:nd5_pos1" spec="beast.evolution.tree.Tree" name="stateNode">

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</tree>

<parameter id="clockRate.c:nd5_pos1" spec="parameter.RealParameter"
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<tree id="Tree.t:atp6_pos2" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.atp6_pos2" spec="TaxonSet">
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<parameter id="clockRate.c:atp6_pos2" spec="parameter.RealParameter"
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<tree id="Tree.t:nd5_pos3" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.nd5_pos3" spec="TaxonSet">
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    </taxonset>

</tree>

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<tree id="Tree.t:atp6_pos3" spec="beast.evolution.tree.Tree" name="stateNode">

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123ps4" filter="3-678\3"/>

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    <taxonset id="TaxonSet.nd3_pos1" spec="TaxonSet">

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123ps4" filter="7029-7377\3"/>

    </taxonset>

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<parameter id="clockRate.c:nd3_pos1" spec="parameter.RealParameter"
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<tree id="Tree.t:nd6_pos2" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.nd6_pos2" spec="TaxonSet">

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123ps4" filter="10888-11401\3"/>

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</tree>

<parameter id="clockRate.c:nd6_pos2" spec="parameter.RealParameter"
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<tree id="Tree.t:coiii_pos1" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.coiii_pos1" spec="TaxonSet">

        <alignment id="coiii_pos1" spec="FilteredAlignment" data="@Fl26seq-pt7-11401-
123ps4" filter="3087-3871\3"/>

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    <parameter id="clockRate.c:coiii_pos1" spec="parameter.RealParameter"
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    <tree id="Tree.t:atp8_pos1" spec="beast.evolution.tree.Tree" name="stateNode">

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            <alignment id="atp8_pos1" spec="FilteredAlignment" data="@Fl26seq-pt7-11401-
123ps4" filter="679-844\3"/>

        </taxonset>

    </tree>

    <parameter id="clockRate.c:atp8_pos1" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

    <tree id="Tree.t:nd5_pos2" spec="beast.evolution.tree.Tree" name="stateNode">

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        </taxonset>

    </tree>

    <parameter id="clockRate.c:nd5_pos2" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

    <tree id="Tree.t:nd3_pos3" spec="beast.evolution.tree.Tree" name="stateNode">

        <taxonset id="TaxonSet.nd3_pos3" spec="TaxonSet">

            <alignment id="nd3_pos3" spec="FilteredAlignment" data="@Fl26seq-pt7-11401-
123ps4" filter="7031-7377\3"/>

        </taxonset>

    </tree>

    <parameter id="clockRate.c:nd3_pos3" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

    <tree id="Tree.t:cytb_pos3" spec="beast.evolution.tree.Tree" name="stateNode">

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123ps4" filter="3874-5011\3"/>

        </taxonset>

    </tree>

    <parameter id="clockRate.c:cytb_pos3" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

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</tree>

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</tree>

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name="stateNode">1.0</parameter>

<tree id="Tree.t:nd3_pos2" spec="beast.evolution.tree.Tree" name="stateNode">
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</tree>

<parameter id="clockRate.c:nd3_pos2" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

<tree id="Tree.t:coi_pos1" spec="beast.evolution.tree.Tree" name="stateNode">
    <taxonset id="TaxonSet.coi_pos1" spec="TaxonSet">
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</tree>

<parameter id="clockRate.c:coi_pos1" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

<tree id="Tree.t:coiii_pos3" spec="beast.evolution.tree.Tree" name="stateNode">
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    </taxonset>

</tree>

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    <taxonset id="TaxonSet.nd1_pos2" spec="TaxonSet">

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123ps4" filter="5013-5986\3"/>

    </taxonset>

</tree>

<parameter id="clockRate.c:nd1_pos2" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

<tree id="Tree.t:nd4L_pos2" spec="beast.evolution.tree.Tree" name="stateNode">

    <taxonset id="TaxonSet.nd4L_pos2" spec="TaxonSet">

        <alignment id="nd4L_pos2" spec="FilteredAlignment" data="@F126seq-pt7-11401-
123ps4" filter="8756-9051\3"/>

    </taxonset>

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name="stateNode">1.0</parameter>

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123ps4" filter="681-844\3"/>

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    </taxonset>

</tree>

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name="stateNode">1.0</parameter>

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123ps4" filter="10887-11301\3"/>

        </taxonset>

    </tree>

    <parameter id="clockRate.c:nd6_pos1" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

    <tree id="Tree.t:nd2_pos1" spec="beast.evolution.tree.Tree" name="stateNode">

        <taxonset id="TaxonSet.nd2_pos1" spec="TaxonSet">

            <alignment id="nd2_pos1" spec="FilteredAlignment" data="@Fl26seq-pt7-11401-
123ps4" filter="5987-7028\3"/>

        </taxonset>

    </tree>

    <parameter id="clockRate.c:nd2_pos1" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

    <tree id="Tree.t:Fl26seq-pt8-11401-123ps4" spec="beast.evolution.tree.Tree"
name="stateNode">

        <trait id="dateTrait.t:Fl26seq-pt8-11401-123ps4" spec="beast.evolution.tree.TraitSet"
traitname="date" value="">

            <taxa id="TaxonSet.Fl26seq-pt8-11401-123ps4" spec="TaxonSet">

                <alignment idref="Fl26seq-pt8-11401-123ps4"/>

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    </tree>

    <parameter id="clockRate.c:Fl26seq-pt8-11401-123ps4" spec="parameter.RealParameter"
name="stateNode">1.0</parameter>

    <parameter id="parameter.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
spec="parameter.RealParameter" name="stateNode">1.0</parameter>

    <parameter id="parameter.hyperLogNormalDistributionModel-S-Fl26sq-Par-oliv+Pleuro"
spec="parameter.RealParameter" lower="0.0" name="stateNode"
upper="5.0">1.25</parameter>

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<parameter id="parameter.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-FI26sq-Par-oliv+Pleuro" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

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<parameter id="parameter.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-FI26sq-Par-oliv+Pleuro" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="parameter.hyperGamma-beta-HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-FI26sq-Par-oliv+Pleuro" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

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<parameter id="parameter.hyperGamma-beta-HyperPrior.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-FI26sq-Par-oliv+Pleuro" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

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<parameter id="parameter.hyperGamma-beta-FI26sq-Par-oliv+Pleuro" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="parameter.hyperGamma-alpha-FI26sq-Par-oliv+Pleuro1" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="parameter.hyperGamma-beta-FI26sq-Par-oliv+Pleuro1" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="parameter.hyperGamma-alpha-CalibratedYuleBirthRatePrior.t:nd5_pos2" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="parameter.hyperGamma-beta-CalibratedYuleBirthRatePrior.t:nd5_pos2" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="parameter.hyperGamma-alpha-UCMeanRatePrior.c:atp6_pos1" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="parameter.hyperGamma-beta-UCMeanRatePrior.c:atp6_pos1" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<parameter id="ucedMean.c:atp6_pos1" spec="parameter.RealParameter" name="stateNode">2.0</parameter>

<stateNode id="expRateCategories.c:atp6_pos1" spec="parameter.IntegerParameter" dimension="50">1</stateNode>

<parameter id="parameter.hyperLogNormalDistributionModel-M-FI26sq-Par-oliv+Pleuro1.prior" spec="parameter.RealParameter" name="stateNode">17.65</parameter>

<parameter id="parameter.hyperLogNormalDistributionModel-S-Fl26sq-Par-oliv+Pleuro1.prior" spec="parameter.RealParameter" lower="0.0" name="stateNode" upper="5.0">0.36</parameter>

<parameter id="parameter.hyperGamma-alpha-ClockPrior.c:Fl26seq-pt8-11401-123ps4" spec="parameter.RealParameter" name="stateNode">7.85</parameter>

<parameter id="parameter.hyperGamma-beta-ClockPrior.c:Fl26seq-pt8-11401-123ps4" spec="parameter.RealParameter" name="stateNode">1.7</parameter>

<parameter id="popSize.t:Fl26seq-pt8-11401-123ps4" spec="parameter.RealParameter" name="stateNode">0.3</parameter>

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<parameter id="popSize.t:atp6_pos3" spec="parameter.RealParameter" name="stateNode">0.3</parameter>

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<parameter id="popSize.t:cytb_pos2" spec="parameter.RealParameter"
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name="stateNode">0.3</parameter>

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<parameter id="popSize.t:nd1_pos2" spec="parameter.RealParameter"
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<parameter id="popSize.t:nd1_pos3" spec="parameter.RealParameter"
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<parameter id="popSize.t:nd2_pos2" spec="parameter.RealParameter"
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<parameter id="popSize.t:nd2_pos3" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd3_pos1" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd3_pos2" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

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name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd4L_pos1" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd4L_pos2" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd4L_pos3" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd4_pos1" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd4_pos2" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd4_pos3" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd5_pos1" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd5_pos2" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd5_pos3" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd6_pos1" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd6_pos2" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

<parameter id="popSize.t:nd6_pos3" spec="parameter.RealParameter"
name="stateNode">0.3</parameter>

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<init id="RandomTree.t:nd4_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
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<populationModel id="ConstantPopulation0.t:nd4_pos3" spec="ConstantPopulation">

<parameter id="randomPopSize.t:nd4_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:atp6_pos1" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:atp6_pos1" taxa="@atp6_pos1">

<populationModel id="ConstantPopulation0.t:atp6_pos1" spec="ConstantPopulation">

<parameter id="randomPopSize.t:atp6_pos1" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:atp8_pos2" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:atp8_pos2" taxa="@atp8_pos2">

<populationModel id="ConstantPopulation0.t:atp8_pos2" spec="ConstantPopulation">

<parameter id="randomPopSize.t:atp8_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

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<init id="RandomTree.t:nd4L_pos3" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:nd4L_pos3" taxa="@nd4L_pos3">

  <populationModel id="ConstantPopulation0.t:nd4L_pos3" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:nd4L_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

  </populationModel>

</init>

<init id="RandomTree.t:coi_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:coi_pos3" taxa="@coi_pos3">

  <populationModel id="ConstantPopulation0.t:coi_pos3" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:coi_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

  </populationModel>

</init>

<init id="RandomTree.t:nd2_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd2_pos3" taxa="@nd2_pos3">

  <populationModel id="ConstantPopulation0.t:nd2_pos3" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:nd2_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

  </populationModel>

</init>

<init id="RandomTree.t:coiii_pos2" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:coiii_pos2" taxa="@coiii_pos2">

  <populationModel id="ConstantPopulation0.t:coiii_pos2" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:coiii_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

  </populationModel>

</init>

<init id="RandomTree.t:nd6_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd6_pos3" taxa="@nd6_pos3">

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</init>
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<init id="RandomTree.t:nd1_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
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```
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name="popSize">1.0</parameter>
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<init id="RandomTree.t:coii_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
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  <populationModel id="ConstantPopulation0.t:coii_pos3" spec="ConstantPopulation">
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```
    <parameter id="randomPopSize.t:coii_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>
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</init>
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</init>
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estimate="false" initial="@Tree.t:nd4L_pos1" taxa="@nd4L_pos1">
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```
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name="popSize">1.0</parameter>
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</init>

<init id="RandomTree.t:coi_pos2" spec="beast.evolution.tree.RandomTree" estimate="false"
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<populationModel id="ConstantPopulation0.t:coi_pos2" spec="ConstantPopulation">

<parameter id="randomPopSize.t:coi_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

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<init id="RandomTree.t:coii_pos2" spec="beast.evolution.tree.RandomTree" estimate="false"
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<populationModel id="ConstantPopulation0.t:coii_pos2" spec="ConstantPopulation">

<parameter id="randomPopSize.t:coii_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:coii_pos1" spec="beast.evolution.tree.RandomTree" estimate="false"
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<populationModel id="ConstantPopulation0.t:coii_pos1" spec="ConstantPopulation">

<parameter id="randomPopSize.t:coii_pos1" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:nd1_pos1" spec="beast.evolution.tree.RandomTree" estimate="false"
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<parameter id="randomPopSize.t:nd1_pos1" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

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<populationModel id="ConstantPopulation0.t:nd4_pos1" spec="ConstantPopulation">
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name="popSize">1.0</parameter>
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</populationModel>
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</init>
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```
<init id="RandomTree.t:nd5_pos1" spec="beast.evolution.tree.RandomTree" estimate="false"
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<parameter id="randomPopSize.t:nd5_pos1" spec="parameter.RealParameter"
name="popSize">1.0</parameter>
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</populationModel>
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</init>
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<init id="RandomTree.t:atp6_pos2" spec="beast.evolution.tree.RandomTree"
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<parameter id="randomPopSize.t:atp6_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>
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</populationModel>
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</init>
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<init id="RandomTree.t:nd5_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
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<populationModel id="ConstantPopulation0.t:nd5_pos3" spec="ConstantPopulation">
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<parameter id="randomPopSize.t:nd5_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>
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</populationModel>
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```
</init>
```

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<init id="RandomTree.t:atp6_pos3" spec="beast.evolution.tree.RandomTree"
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```
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name="popSize">1.0</parameter>
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</init>
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<init id="RandomTree.t:nd3_pos1" spec="beast.evolution.tree.RandomTree" estimate="false"
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```
  <populationModel id="ConstantPopulation0.t:nd3_pos1" spec="ConstantPopulation">
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```
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name="popSize">1.0</parameter>
```

```
  </populationModel>
```

```
</init>
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```
<init id="RandomTree.t:nd6_pos2" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd6_pos2" taxa="@nd6_pos2">
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```
  <populationModel id="ConstantPopulation0.t:nd6_pos2" spec="ConstantPopulation">
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```
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name="popSize">1.0</parameter>
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```
</init>
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<init id="RandomTree.t:coiii_pos1" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:coiii_pos1" taxa="@coiii_pos1">
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```
  <populationModel id="ConstantPopulation0.t:coiii_pos1" spec="ConstantPopulation">
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```
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name="popSize">1.0</parameter>
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```
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```
</init>
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<init id="RandomTree.t:atp8_pos1" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:atp8_pos1" taxa="@atp8_pos1">
```

```
  <populationModel id="ConstantPopulation0.t:atp8_pos1" spec="ConstantPopulation">
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name="popSize">1.0</parameter>
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```
  </populationModel>
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</init>

<init id="RandomTree.t:nd5_pos2" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd5_pos2" taxa="@nd5_pos2">

<populationModel id="ConstantPopulation0.t:nd5_pos2" spec="ConstantPopulation">

<parameter id="randomPopSize.t:nd5_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:nd3_pos3" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd3_pos3" taxa="@nd3_pos3">

<populationModel id="ConstantPopulation0.t:nd3_pos3" spec="ConstantPopulation">

<parameter id="randomPopSize.t:nd3_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:cytb_pos3" spec="beast.evolution.tree.RandomTree"
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<populationModel id="ConstantPopulation0.t:cytb_pos3" spec="ConstantPopulation">

<parameter id="randomPopSize.t:cytb_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:cytb_pos1" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:cytb_pos1" taxa="@cytb_pos1">

<populationModel id="ConstantPopulation0.t:cytb_pos1" spec="ConstantPopulation">

<parameter id="randomPopSize.t:cytb_pos1" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

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<init id="RandomTree.t:cytb_pos2" spec="beast.evolution.tree.RandomTree"
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  <populationModel id="ConstantPopulation0.t:cytb_pos2" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:cytb_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

  </populationModel>

</init>

<init id="RandomTree.t:nd3_pos2" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd3_pos2" taxa="@nd3_pos2">

  <populationModel id="ConstantPopulation0.t:nd3_pos2" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:nd3_pos2" spec="parameter.RealParameter"
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  </populationModel>

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<init id="RandomTree.t:coi_pos1" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:coi_pos1" taxa="@coi_pos1">

  <populationModel id="ConstantPopulation0.t:coi_pos1" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:coi_pos1" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

  </populationModel>

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<init id="RandomTree.t:coiii_pos3" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:coiii_pos3" taxa="@coiii_pos3">

  <populationModel id="ConstantPopulation0.t:coiii_pos3" spec="ConstantPopulation">

    <parameter id="randomPopSize.t:coiii_pos3" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

  </populationModel>

</init>

<init id="RandomTree.t:nd1_pos2" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd1_pos2" taxa="@nd1_pos2">

  <populationModel id="ConstantPopulation0.t:nd1_pos2" spec="ConstantPopulation">

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```
    <parameter id="randomPopSize.t:nd1_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>
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  </populationModel>
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```
</init>
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<init id="RandomTree.t:nd4L_pos2" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:nd4L_pos2" taxa="@nd4L_pos2">
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```
  <populationModel id="ConstantPopulation0.t:nd4L_pos2" spec="ConstantPopulation">
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    <parameter id="randomPopSize.t:nd4L_pos2" spec="parameter.RealParameter"
name="popSize">1.0</parameter>
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  </populationModel>
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</init>
```

```
<init id="RandomTree.t:atp8_pos3" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:atp8_pos3" taxa="@atp8_pos3">
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  <populationModel id="ConstantPopulation0.t:atp8_pos3" spec="ConstantPopulation">
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name="popSize">1.0</parameter>
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  </populationModel>
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</init>
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initial="@Tree.t:nd4_pos2" taxa="@nd4_pos2">
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  <populationModel id="ConstantPopulation0.t:nd4_pos2" spec="ConstantPopulation">
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name="popSize">1.0</parameter>
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  </populationModel>
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</init>
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initial="@Tree.t:nd6_pos1" taxa="@nd6_pos1">
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  </populationModel>
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</init>

<init id="RandomTree.t:nd2_pos1" spec="beast.evolution.tree.RandomTree" estimate="false"
initial="@Tree.t:nd2_pos1" taxa="@nd2_pos1">

<populationModel id="ConstantPopulation0.t:nd2_pos1" spec="ConstantPopulation">

<parameter id="randomPopSize.t:nd2_pos1" spec="parameter.RealParameter"
name="popSize">1.0</parameter>

</populationModel>

</init>

<init id="RandomTree.t:Fl26seq-pt8-11401-123ps4" spec="beast.evolution.tree.RandomTree"
estimate="false" initial="@Tree.t:Fl26seq-pt8-11401-123ps4" taxa="@Fl26seq-pt8-11401-
123ps4">

<populationModel id="ConstantPopulation0.t:Fl26seq-pt8-11401-123ps4"
spec="ConstantPopulation">

<parameter id="randomPopSize.t:Fl26seq-pt8-11401-123ps4"
spec="parameter.RealParameter" name="popSize">1.0</parameter>

</populationModel>

</init>

<distribution id="posterior" spec="util.CompoundDistribution">

<distribution id="prior" spec="util.CompoundDistribution">

<distribution id="CoalescentConstant.t:Fl26seq-pt8-11401-123ps4" spec="Coalescent">

<populationModel id="ConstantPopulation.t:Fl26seq-pt8-11401-123ps4"
spec="ConstantPopulation" popSize="@popSize.t:Fl26seq-pt8-11401-123ps4"/>

<treeIntervals id="TreeIntervals.t:Fl26seq-pt8-11401-123ps4" spec="TreeIntervals"
tree="@Tree.t:Fl26seq-pt8-11401-123ps4"/>

</distribution>

<distribution id="CoalescentConstant.t:atp6_pos1" spec="Coalescent">

<populationModel id="ConstantPopulation.t:atp6_pos1" spec="ConstantPopulation"
popSize="@popSize.t:atp6_pos1"/>

<treeIntervals id="TreeIntervals.t:atp6_pos1" spec="TreeIntervals"
tree="@Tree.t:atp6_pos1"/>

</distribution>

<distribution id="CoalescentConstant.t:atp6_pos2" spec="Coalescent">

```

        <populationModel id="ConstantPopulation.t:atp6_pos2" spec="ConstantPopulation"
popSize="@popSize.t:atp6_pos2"/>

        <treeIntervals id="TreeIntervals.t:atp6_pos2" spec="TreeIntervals"
tree="@Tree.t:atp6_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:atp6_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:atp6_pos3" spec="ConstantPopulation"
popSize="@popSize.t:atp6_pos3"/>

        <treeIntervals id="TreeIntervals.t:atp6_pos3" spec="TreeIntervals"
tree="@Tree.t:atp6_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:atp8_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:atp8_pos1" spec="ConstantPopulation"
popSize="@popSize.t:atp8_pos1"/>

        <treeIntervals id="TreeIntervals.t:atp8_pos1" spec="TreeIntervals"
tree="@Tree.t:atp8_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:atp8_pos2" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:atp8_pos2" spec="ConstantPopulation"
popSize="@popSize.t:atp8_pos2"/>

        <treeIntervals id="TreeIntervals.t:atp8_pos2" spec="TreeIntervals"
tree="@Tree.t:atp8_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:atp8_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:atp8_pos3" spec="ConstantPopulation"
popSize="@popSize.t:atp8_pos3"/>

        <treeIntervals id="TreeIntervals.t:atp8_pos3" spec="TreeIntervals"
tree="@Tree.t:atp8_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coi_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:coi_pos1" spec="ConstantPopulation"
popSize="@popSize.t:coi_pos1"/>

        <treeIntervals id="TreeIntervals.t:coi_pos1" spec="TreeIntervals"
tree="@Tree.t:coi_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coi_pos2" spec="Coalescent">

```

```

        <populationModel id="ConstantPopulation.t:coi_pos2" spec="ConstantPopulation"
popSize="@popSize.t:coi_pos2"/>

        <treeIntervals id="TreeIntervals.t:coi_pos2" spec="TreeIntervals"
tree="@Tree.t:coi_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coi_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:coi_pos3" spec="ConstantPopulation"
popSize="@popSize.t:coi_pos3"/>

        <treeIntervals id="TreeIntervals.t:coi_pos3" spec="TreeIntervals"
tree="@Tree.t:coi_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coii_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:coii_pos1" spec="ConstantPopulation"
popSize="@popSize.t:coii_pos1"/>

        <treeIntervals id="TreeIntervals.t:coii_pos1" spec="TreeIntervals"
tree="@Tree.t:coii_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coii_pos2" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:coii_pos2" spec="ConstantPopulation"
popSize="@popSize.t:coii_pos2"/>

        <treeIntervals id="TreeIntervals.t:coii_pos2" spec="TreeIntervals"
tree="@Tree.t:coii_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coii_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:coii_pos3" spec="ConstantPopulation"
popSize="@popSize.t:coii_pos3"/>

        <treeIntervals id="TreeIntervals.t:coii_pos3" spec="TreeIntervals"
tree="@Tree.t:coii_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coiii_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:coiii_pos1" spec="ConstantPopulation"
popSize="@popSize.t:coiii_pos1"/>

        <treeIntervals id="TreeIntervals.t:coiii_pos1" spec="TreeIntervals"
tree="@Tree.t:coiii_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coiii_pos2" spec="Coalescent">

```

```

        <populationModel id="ConstantPopulation.t:coiii_pos2" spec="ConstantPopulation"
popSize="@popSize.t:coiii_pos2"/>

        <treeIntervals id="TreeIntervals.t:coiii_pos2" spec="TreeIntervals"
tree="@Tree.t:coiii_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:coiii_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:coiii_pos3" spec="ConstantPopulation"
popSize="@popSize.t:coiii_pos3"/>

        <treeIntervals id="TreeIntervals.t:coiii_pos3" spec="TreeIntervals"
tree="@Tree.t:coiii_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:cytb_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:cytb_pos1" spec="ConstantPopulation"
popSize="@popSize.t:cytb_pos1"/>

        <treeIntervals id="TreeIntervals.t:cytb_pos1" spec="TreeIntervals"
tree="@Tree.t:cytb_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:cytb_pos2" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:cytb_pos2" spec="ConstantPopulation"
popSize="@popSize.t:cytb_pos2"/>

        <treeIntervals id="TreeIntervals.t:cytb_pos2" spec="TreeIntervals"
tree="@Tree.t:cytb_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:cytb_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:cytb_pos3" spec="ConstantPopulation"
popSize="@popSize.t:cytb_pos3"/>

        <treeIntervals id="TreeIntervals.t:cytb_pos3" spec="TreeIntervals"
tree="@Tree.t:cytb_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd1_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd1_pos1" spec="ConstantPopulation"
popSize="@popSize.t:nd1_pos1"/>

        <treeIntervals id="TreeIntervals.t:nd1_pos1" spec="TreeIntervals"
tree="@Tree.t:nd1_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd1_pos2" spec="Coalescent">

```

```

    <populationModel id="ConstantPopulation.t:nd1_pos2" spec="ConstantPopulation"
popSize="@popSize.t:nd1_pos2"/>

    <treeIntervals id="TreeIntervals.t:nd1_pos2" spec="TreeIntervals"
tree="@Tree.t:nd1_pos2"/>

</distribution>

<distribution id="CoalescentConstant.t:nd1_pos3" spec="Coalescent">

    <populationModel id="ConstantPopulation.t:nd1_pos3" spec="ConstantPopulation"
popSize="@popSize.t:nd1_pos3"/>

    <treeIntervals id="TreeIntervals.t:nd1_pos3" spec="TreeIntervals"
tree="@Tree.t:nd1_pos3"/>

</distribution>

<distribution id="CoalescentConstant.t:nd2_pos1" spec="Coalescent">

    <populationModel id="ConstantPopulation.t:nd2_pos1" spec="ConstantPopulation"
popSize="@popSize.t:nd2_pos1"/>

    <treeIntervals id="TreeIntervals.t:nd2_pos1" spec="TreeIntervals"
tree="@Tree.t:nd2_pos1"/>

</distribution>

<distribution id="CoalescentConstant.t:nd2_pos2" spec="Coalescent">

    <populationModel id="ConstantPopulation.t:nd2_pos2" spec="ConstantPopulation"
popSize="@popSize.t:nd2_pos2"/>

    <treeIntervals id="TreeIntervals.t:nd2_pos2" spec="TreeIntervals"
tree="@Tree.t:nd2_pos2"/>

</distribution>

<distribution id="CoalescentConstant.t:nd2_pos3" spec="Coalescent">

    <populationModel id="ConstantPopulation.t:nd2_pos3" spec="ConstantPopulation"
popSize="@popSize.t:nd2_pos3"/>

    <treeIntervals id="TreeIntervals.t:nd2_pos3" spec="TreeIntervals"
tree="@Tree.t:nd2_pos3"/>

</distribution>

<distribution id="CoalescentConstant.t:nd3_pos1" spec="Coalescent">

    <populationModel id="ConstantPopulation.t:nd3_pos1" spec="ConstantPopulation"
popSize="@popSize.t:nd3_pos1"/>

    <treeIntervals id="TreeIntervals.t:nd3_pos1" spec="TreeIntervals"
tree="@Tree.t:nd3_pos1"/>

</distribution>

<distribution id="CoalescentConstant.t:nd3_pos2" spec="Coalescent">

```

```

        <populationModel id="ConstantPopulation.t:nd3_pos2" spec="ConstantPopulation"
popSize="@popSize.t:nd3_pos2"/>

        <treeIntervals id="TreeIntervals.t:nd3_pos2" spec="TreeIntervals"
tree="@Tree.t:nd3_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd3_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd3_pos3" spec="ConstantPopulation"
popSize="@popSize.t:nd3_pos3"/>

        <treeIntervals id="TreeIntervals.t:nd3_pos3" spec="TreeIntervals"
tree="@Tree.t:nd3_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd4L_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd4L_pos1" spec="ConstantPopulation"
popSize="@popSize.t:nd4L_pos1"/>

        <treeIntervals id="TreeIntervals.t:nd4L_pos1" spec="TreeIntervals"
tree="@Tree.t:nd4L_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd4L_pos2" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd4L_pos2" spec="ConstantPopulation"
popSize="@popSize.t:nd4L_pos2"/>

        <treeIntervals id="TreeIntervals.t:nd4L_pos2" spec="TreeIntervals"
tree="@Tree.t:nd4L_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd4L_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd4L_pos3" spec="ConstantPopulation"
popSize="@popSize.t:nd4L_pos3"/>

        <treeIntervals id="TreeIntervals.t:nd4L_pos3" spec="TreeIntervals"
tree="@Tree.t:nd4L_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd4_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd4_pos1" spec="ConstantPopulation"
popSize="@popSize.t:nd4_pos1"/>

        <treeIntervals id="TreeIntervals.t:nd4_pos1" spec="TreeIntervals"
tree="@Tree.t:nd4_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd4_pos2" spec="Coalescent">

```

```

        <populationModel id="ConstantPopulation.t:nd4_pos2" spec="ConstantPopulation"
popSize="@popSize.t:nd4_pos2"/>

        <treeIntervals id="TreeIntervals.t:nd4_pos2" spec="TreeIntervals"
tree="@Tree.t:nd4_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd4_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd4_pos3" spec="ConstantPopulation"
popSize="@popSize.t:nd4_pos3"/>

        <treeIntervals id="TreeIntervals.t:nd4_pos3" spec="TreeIntervals"
tree="@Tree.t:nd4_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd5_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd5_pos1" spec="ConstantPopulation"
popSize="@popSize.t:nd5_pos1"/>

        <treeIntervals id="TreeIntervals.t:nd5_pos1" spec="TreeIntervals"
tree="@Tree.t:nd5_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd5_pos2" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd5_pos2" spec="ConstantPopulation"
popSize="@popSize.t:nd5_pos2"/>

        <treeIntervals id="TreeIntervals.t:nd5_pos2" spec="TreeIntervals"
tree="@Tree.t:nd5_pos2"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd5_pos3" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd5_pos3" spec="ConstantPopulation"
popSize="@popSize.t:nd5_pos3"/>

        <treeIntervals id="TreeIntervals.t:nd5_pos3" spec="TreeIntervals"
tree="@Tree.t:nd5_pos3"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd6_pos1" spec="Coalescent">

        <populationModel id="ConstantPopulation.t:nd6_pos1" spec="ConstantPopulation"
popSize="@popSize.t:nd6_pos1"/>

        <treeIntervals id="TreeIntervals.t:nd6_pos1" spec="TreeIntervals"
tree="@Tree.t:nd6_pos1"/>

    </distribution>

    <distribution id="CoalescentConstant.t:nd6_pos2" spec="Coalescent">

```



```

    <populationModel id="ConstantPopulation.t:nd6_pos2" spec="ConstantPopulation"
popSize="@popSize.t:nd6_pos2"/>

    <treeIntervals id="TreeIntervals.t:nd6_pos2" spec="TreeIntervals"
tree="@Tree.t:nd6_pos2"/>

</distribution>

<distribution id="CoalescentConstant.t:nd6_pos3" spec="Coalescent">

    <populationModel id="ConstantPopulation.t:nd6_pos3" spec="ConstantPopulation"
popSize="@popSize.t:nd6_pos3"/>

    <treeIntervals id="TreeIntervals.t:nd6_pos3" spec="TreeIntervals"
tree="@Tree.t:nd6_pos3"/>

</distribution>

    <prior id="ClockPrior.c:Fl26seq-pt8-11401-123ps4" name="distribution"
x="@clockRate.c:Fl26seq-pt8-11401-123ps4">

        <Normal id="Normal.40" name="distr">

            <parameter id="RealParameter.1677" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

            <parameter id="RealParameter.1678" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

        </Normal>

    </prior>

    <prior id="ClockPrior.c:atp6_pos2" name="distribution" x="@clockRate.c:atp6_pos2">

        <Normal id="Normal.41" name="distr">

            <parameter id="RealParameter.1686" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

            <parameter id="RealParameter.1687" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

        </Normal>

    </prior>

    <prior id="ClockPrior.c:atp6_pos3" name="distribution" x="@clockRate.c:atp6_pos3">

        <Normal id="Normal.42" name="distr">

            <parameter id="RealParameter.1688" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

            <parameter id="RealParameter.1689" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

        </Normal>

    </prior>

```

```

<prior id="ClockPrior.c:atp8_pos1" name="distribution" x="@clockRate.c:atp8_pos1">
  <Normal id="Normal.43" name="distr">
    <parameter id="RealParameter.1693" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1694" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:atp8_pos2" name="distribution" x="@clockRate.c:atp8_pos2">
  <Normal id="Normal.44" name="distr">
    <parameter id="RealParameter.1696" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1697" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:atp8_pos3" name="distribution" x="@clockRate.c:atp8_pos3">
  <Normal id="Normal.45" name="distr">
    <parameter id="RealParameter.1707" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1716" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:coi_pos1" name="distribution" x="@clockRate.c:coi_pos1">
  <Normal id="Normal.46" name="distr">
    <parameter id="RealParameter.1717" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1718" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:coi_pos2" name="distribution" x="@clockRate.c:coi_pos2">
  <Normal id="Normal.47" name="distr">

```

```

        <parameter id="RealParameter.1719" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1720" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:coi_pos3" name="distribution" x="@clockRate.c:coi_pos3">

    <Normal id="Normal.48" name="distr">

        <parameter id="RealParameter.1721" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1722" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:coii_pos1" name="distribution" x="@clockRate.c:coii_pos1">

    <Normal id="Normal.49" name="distr">

        <parameter id="RealParameter.1723" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1724" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:coii_pos2" name="distribution" x="@clockRate.c:coii_pos2">

    <Normal id="Normal.50" name="distr">

        <parameter id="RealParameter.1725" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1726" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:coii_pos3" name="distribution" x="@clockRate.c:coii_pos3">

    <Normal id="Normal.51" name="distr">

        <parameter id="RealParameter.1727" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

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        <parameter id="RealParameter.1728" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:coiii_pos1" name="distribution" x="@clockRate.c:coiii_pos1">

    <Normal id="Normal.52" name="distr">

        <parameter id="RealParameter.1729" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1730" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:coiii_pos2" name="distribution" x="@clockRate.c:coiii_pos2">

    <Normal id="Normal.53" name="distr">

        <parameter id="RealParameter.1731" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1732" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:coiii_pos3" name="distribution" x="@clockRate.c:coiii_pos3">

    <Normal id="Normal.54" name="distr">

        <parameter id="RealParameter.1733" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1734" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:cytb_pos1" name="distribution" x="@clockRate.c:cytb_pos1">

    <Normal id="Normal.55" name="distr">

        <parameter id="RealParameter.1735" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1736" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

```

```

</prior>

<prior id="ClockPrior.c:cytb_pos2" name="distribution" x="@clockRate.c:cytb_pos2">
  <Normal id="Normal.56" name="distr">
    <parameter id="RealParameter.1737" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1738" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:cytb_pos3" name="distribution" x="@clockRate.c:cytb_pos3">
  <Normal id="Normal.57" name="distr">
    <parameter id="RealParameter.1739" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1740" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:nd1_pos1" name="distribution" x="@clockRate.c:nd1_pos1">
  <Normal id="Normal.58" name="distr">
    <parameter id="RealParameter.1741" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1742" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:nd1_pos2" name="distribution" x="@clockRate.c:nd1_pos2">
  <Normal id="Normal.59" name="distr">
    <parameter id="RealParameter.1743" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1744" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:nd1_pos3" name="distribution" x="@clockRate.c:nd1_pos3">
  <Normal id="Normal.60" name="distr">

```

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        <parameter id="RealParameter.1745" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1746" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd2_pos1" name="distribution" x="@clockRate.c:nd2_pos1">

    <Normal id="Normal.61" name="distr">

        <parameter id="RealParameter.1747" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1748" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd2_pos2" name="distribution" x="@clockRate.c:nd2_pos2">

    <Normal id="Normal.62" name="distr">

        <parameter id="RealParameter.1749" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1750" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd2_pos3" name="distribution" x="@clockRate.c:nd2_pos3">

    <Normal id="Normal.63" name="distr">

        <parameter id="RealParameter.1751" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1752" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd3_pos1" name="distribution" x="@clockRate.c:nd3_pos1">

    <Normal id="Normal.64" name="distr">

        <parameter id="RealParameter.1755" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

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        <parameter id="RealParameter.1756" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd3_pos2" name="distribution" x="@clockRate.c:nd3_pos2">

    <Normal id="Normal.65" name="distr">

        <parameter id="RealParameter.1757" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1758" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd3_pos3" name="distribution" x="@clockRate.c:nd3_pos3">

    <Normal id="Normal.66" name="distr">

        <parameter id="RealParameter.1759" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1760" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd4L_pos1" name="distribution"
x="@clockRate.c:nd4L_pos1">

    <Normal id="Normal.67" name="distr">

        <parameter id="RealParameter.1761" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1762" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd4L_pos2" name="distribution"
x="@clockRate.c:nd4L_pos2">

    <Normal id="Normal.68" name="distr">

        <parameter id="RealParameter.1763" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1764" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

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```

    </Normal>

  </prior>

  <prior id="ClockPrior.c:nd4L_pos3" name="distribution"
x="@clockRate.c:nd4L_pos3">

    <Normal id="Normal.69" name="distr">

      <parameter id="RealParameter.1765" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

      <parameter id="RealParameter.1766" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

  </prior>

  <prior id="ClockPrior.c:nd4_pos1" name="distribution" x="@clockRate.c:nd4_pos1">

    <Normal id="Normal.70" name="distr">

      <parameter id="RealParameter.1767" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

      <parameter id="RealParameter.1768" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

  </prior>

  <prior id="ClockPrior.c:nd4_pos2" name="distribution" x="@clockRate.c:nd4_pos2">

    <Normal id="Normal.71" name="distr">

      <parameter id="RealParameter.1769" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

      <parameter id="RealParameter.1770" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

  </prior>

  <prior id="ClockPrior.c:nd4_pos3" name="distribution" x="@clockRate.c:nd4_pos3">

    <Normal id="Normal.72" name="distr">

      <parameter id="RealParameter.1771" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

      <parameter id="RealParameter.1772" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

  </prior>

```



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<prior id="ClockPrior.c:nd5_pos1" name="distribution" x="@clockRate.c:nd5_pos1">
  <Normal id="Normal.73" name="distr">
    <parameter id="RealParameter.1773" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1774" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:nd5_pos2" name="distribution" x="@clockRate.c:nd5_pos2">
  <Normal id="Normal.74" name="distr">
    <parameter id="RealParameter.1775" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1776" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:nd5_pos3" name="distribution" x="@clockRate.c:nd5_pos3">
  <Normal id="Normal.75" name="distr">
    <parameter id="RealParameter.1777" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1778" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:nd6_pos1" name="distribution" x="@clockRate.c:nd6_pos1">
  <Normal id="Normal.76" name="distr">
    <parameter id="RealParameter.1779" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>
    <parameter id="RealParameter.1780" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<prior id="ClockPrior.c:nd6_pos2" name="distribution" x="@clockRate.c:nd6_pos2">
  <Normal id="Normal.77" name="distr">

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    <parameter id="RealParameter.1781" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

    <parameter id="RealParameter.1782" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="ClockPrior.c:nd6_pos3" name="distribution" x="@clockRate.c:nd6_pos3">

    <Normal id="Normal.78" name="distr">

        <parameter id="RealParameter.1783" spec="parameter.RealParameter"
estimate="false" name="mean">2.0</parameter>

        <parameter id="RealParameter.1784" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>

    </Normal>

</prior>

<prior id="HyperPrior.hyperGamma-alpha-CalibratedYuleBirthRatePrior.t:nd5_pos2"
name="distribution" x="@parameter.hyperGamma-alpha-
CalibratedYuleBirthRatePrior.t:nd5_pos2">

    <LogNormal id="LogNormalDistributionModel.160" name="distr">

        <parameter id="RealParameter.1683" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

        <parameter id="RealParameter.1684" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

</prior>

<prior id="HyperPrior.hyperGamma-alpha-ClockPrior.c:Fl26seq-pt8-11401-123ps4"
name="distribution" x="@parameter.hyperGamma-alpha-ClockPrior.c:Fl26seq-pt8-11401-
123ps4">

    <LogNormal id="LogNormalDistributionModel.161" name="distr">

        <parameter id="RealParameter.1691" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

        <parameter id="RealParameter.1692" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

</prior>

<prior id="HyperPrior.hyperGamma-alpha-Fl26sq-Par-oliv+Pleuro" name="distribution"
x="@parameter.hyperGamma-alpha-Fl26sq-Par-oliv+Pleuro">

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    <LogNormal id="LogNormalDistributionModel.162" name="distr">
      <parameter id="RealParameter.1695" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

      <parameter id="RealParameter.1698" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

  </prior>

  <prior id="HyperPrior.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-
oliv+Pleuro" name="distribution" x="@parameter.hyperGamma-alpha-
HyperPrior.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro">

    <LogNormal id="LogNormalDistributionModel.163" name="distr">

      <parameter id="RealParameter.1753" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

      <parameter id="RealParameter.1754" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

  </prior>

  <prior id="HyperPrior.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" name="distribution"
x="@parameter.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro">

    <LogNormal id="LogNormalDistributionModel.164" name="distr">

      <parameter id="RealParameter.1807" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

      <parameter id="RealParameter.1808" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

  </prior>

  <prior id="HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" name="distribution"
x="@parameter.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-
Par-oliv+Pleuro">

    <LogNormal id="LogNormalDistributionModel.165" name="distr">

      <parameter id="RealParameter.1809" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

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    <parameter id="RealParameter.1810" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

</prior>

<prior id="HyperPrior.hyperGamma-alpha-UCMeanRatePrior.c:atp6_pos1"
name="distribution" x="@parameter.hyperGamma-alpha-UCMeanRatePrior.c:atp6_pos1">

    <LogNormal id="LogNormalDistributionModel.166" name="distr">

        <parameter id="RealParameter.1811" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

        <parameter id="RealParameter.1812" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

        </LogNormal>

    </prior>

<prior id="HyperPrior.hyperGamma-beta-CalibratedYuleBirthRatePrior.t:nd5_pos2"
name="distribution" x="@parameter.hyperGamma-beta-
CalibratedYuleBirthRatePrior.t:nd5_pos2">

    <LogNormal id="LogNormalDistributionModel.167" name="distr">

        <parameter id="RealParameter.1813" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

        <parameter id="RealParameter.1814" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

        </LogNormal>

    </prior>

<prior id="HyperPrior.hyperGamma-beta-ClockPrior.c:Fl26seq-pt8-11401-123ps4"
name="distribution" x="@parameter.hyperGamma-beta-ClockPrior.c:Fl26seq-pt8-11401-
123ps4">

    <LogNormal id="LogNormalDistributionModel.168" name="distr">

        <parameter id="RealParameter.1815" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

        <parameter id="RealParameter.1816" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

        </LogNormal>

    </prior>

<prior id="HyperPrior.hyperGamma-beta-Fl26sq-Par-oliv+Pleuro" name="distribution"
x="@parameter.hyperGamma-beta-Fl26sq-Par-oliv+Pleuro">

    <LogNormal id="LogNormalDistributionModel.169" name="distr">

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<parameter id="RealParameter.1817" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

<parameter id="RealParameter.1818" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

</LogNormal>

</prior>

<prior id="HyperPrior.hyperGamma-beta-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-
oliv+Pleuro" name="distribution" x="@parameter.hyperGamma-beta-HyperPrior.hyperGamma-
alpha-HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-
Fl26sq-Par-oliv+Pleuro">

<LogNormal id="LogNormalDistributionModel.172" name="distr">

<parameter id="RealParameter.1699" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

<parameter id="RealParameter.1700" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

</LogNormal>

</prior>

<prior id="HyperPrior.hyperGamma-beta-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" name="distribution"
x="@parameter.hyperGamma-beta-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro">

<LogNormal id="LogNormalDistributionModel.173" name="distr">

<parameter id="RealParameter.1701" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

<parameter id="RealParameter.1702" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

</LogNormal>

</prior>

<prior id="HyperPrior.hyperGamma-beta-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" name="distribution"
x="@parameter.hyperGamma-beta-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-
Par-oliv+Pleuro">

<LogNormal id="LogNormalDistributionModel.174" name="distr">

<parameter id="RealParameter.1703" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

<parameter id="RealParameter.1704" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

```

    </LogNormal>

  </prior>

  <prior id="HyperPrior.hyperGamma-beta-UCMeanRatePrior.c:atp6_pos1"
name="distribution" x="@parameter.hyperGamma-beta-UCMeanRatePrior.c:atp6_pos1">

    <LogNormal id="LogNormalDistributionModel.175" name="distr">

      <parameter id="RealParameter.1705" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

      <parameter id="RealParameter.1706" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

  </prior>

  <prior id="HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
name="distribution" x="@parameter.hyperLogNormalDistributionModel-M-Fl26sq-Par-
oliv+Pleuro">

    <LogNormal id="LogNormalDistributionModel.176" name="distr">

      <parameter id="RealParameter.1708" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

      <parameter id="RealParameter.1709" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

  </prior>

  <prior id="HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-
oliv+Pleuro1.prior" name="distribution" x="@parameter.hyperLogNormalDistributionModel-
M-Fl26sq-Par-oliv+Pleuro1.prior">

    <LogNormal id="LogNormalDistributionModel.177" name="distr">

      <parameter id="RealParameter.1710" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

      <parameter id="RealParameter.1711" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

  </prior>

  <prior id="HyperPrior.hyperLogNormalDistributionModel-S-Fl26sq-Par-oliv+Pleuro"
name="distribution" x="@parameter.hyperLogNormalDistributionModel-S-Fl26sq-Par-
oliv+Pleuro">

    <LogNormal id="LogNormalDistributionModel.178" name="distr">

      <parameter id="RealParameter.1712" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

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        <parameter id="RealParameter.1713" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

</prior>

<prior id="HyperPrior.hyperLogNormalDistributionModel-S-Fl26sq-Par-
oliv+Pleuro1.prior" name="distribution" x="@parameter.hyperLogNormalDistributionModel-S-
Fl26sq-Par-oliv+Pleuro1.prior">

    <LogNormal id="LogNormalDistributionModel.179" name="distr">

        <parameter id="RealParameter.1714" spec="parameter.RealParameter"
estimate="false" name="M">1.0</parameter>

        <parameter id="RealParameter.1715" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="S" upper="5.0">1.25</parameter>

    </LogNormal>

</prior>

<prior id="PopSizePrior.t:Fl26seq-pt8-11401-123ps4" name="distribution"
x="@popSize.t:Fl26seq-pt8-11401-123ps4">

    <OneOnX id="OneOnX.157" name="distr"/>

</prior>

<prior id="PopSizePrior.t:atp6_pos1" name="distribution" x="@popSize.t:atp6_pos1">

    <OneOnX id="OneOnX.1" name="distr"/>

</prior>

<prior id="PopSizePrior.t:atp6_pos2" name="distribution" x="@popSize.t:atp6_pos2">

    <OneOnX id="OneOnX.5" name="distr"/>

</prior>

<prior id="PopSizePrior.t:atp6_pos3" name="distribution" x="@popSize.t:atp6_pos3">

    <OneOnX id="OneOnX.9" name="distr"/>

</prior>

<prior id="PopSizePrior.t:atp8_pos1" name="distribution" x="@popSize.t:atp8_pos1">

    <OneOnX id="OneOnX.13" name="distr"/>

</prior>

<prior id="PopSizePrior.t:atp8_pos2" name="distribution" x="@popSize.t:atp8_pos2">

    <OneOnX id="OneOnX.17" name="distr"/>

</prior>

<prior id="PopSizePrior.t:atp8_pos3" name="distribution" x="@popSize.t:atp8_pos3">

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    <OneOnX id="OneOnX.21" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coi_pos1" name="distribution" x="@popSize.t:coi_pos1">
    <OneOnX id="OneOnX.25" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coi_pos2" name="distribution" x="@popSize.t:coi_pos2">
    <OneOnX id="OneOnX.29" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coi_pos3" name="distribution" x="@popSize.t:coi_pos3">
    <OneOnX id="OneOnX.33" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coii_pos1" name="distribution" x="@popSize.t:coii_pos1">
    <OneOnX id="OneOnX.37" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coii_pos2" name="distribution" x="@popSize.t:coii_pos2">
    <OneOnX id="OneOnX.41" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coii_pos3" name="distribution" x="@popSize.t:coii_pos3">
    <OneOnX id="OneOnX.45" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coiii_pos1" name="distribution" x="@popSize.t:coiii_pos1">
    <OneOnX id="OneOnX.49" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coiii_pos2" name="distribution" x="@popSize.t:coiii_pos2">
    <OneOnX id="OneOnX.53" name="distr"/>
</prior>
<prior id="PopSizePrior.t:coiii_pos3" name="distribution" x="@popSize.t:coiii_pos3">
    <OneOnX id="OneOnX.57" name="distr"/>
</prior>
<prior id="PopSizePrior.t:cytb_pos1" name="distribution" x="@popSize.t:cytb_pos1">
    <OneOnX id="OneOnX.61" name="distr"/>
</prior>

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<prior id="PopSizePrior.t:cytb_pos2" name="distribution" x="@popSize.t:cytb_pos2">
  <OneOnX id="OneOnX.65" name="distr"/>
</prior>

<prior id="PopSizePrior.t:cytb_pos3" name="distribution" x="@popSize.t:cytb_pos3">
  <OneOnX id="OneOnX.69" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd1_pos1" name="distribution" x="@popSize.t:nd1_pos1">
  <OneOnX id="OneOnX.73" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd1_pos2" name="distribution" x="@popSize.t:nd1_pos2">
  <OneOnX id="OneOnX.77" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd1_pos3" name="distribution" x="@popSize.t:nd1_pos3">
  <OneOnX id="OneOnX.81" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd2_pos1" name="distribution" x="@popSize.t:nd2_pos1">
  <OneOnX id="OneOnX.85" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd2_pos2" name="distribution" x="@popSize.t:nd2_pos2">
  <OneOnX id="OneOnX.89" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd2_pos3" name="distribution" x="@popSize.t:nd2_pos3">
  <OneOnX id="OneOnX.93" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd3_pos1" name="distribution" x="@popSize.t:nd3_pos1">
  <OneOnX id="OneOnX.97" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd3_pos2" name="distribution" x="@popSize.t:nd3_pos2">
  <OneOnX id="OneOnX.101" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd3_pos3" name="distribution" x="@popSize.t:nd3_pos3">
  <OneOnX id="OneOnX.105" name="distr"/>

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</prior>

<prior id="PopSizePrior.t:nd4L_pos1" name="distribution"
x="@popSize.t:nd4L_pos1">

  <OneOnX id="OneOnX.121" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd4L_pos2" name="distribution"
x="@popSize.t:nd4L_pos2">

  <OneOnX id="OneOnX.125" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd4L_pos3" name="distribution"
x="@popSize.t:nd4L_pos3">

  <OneOnX id="OneOnX.129" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd4_pos1" name="distribution" x="@popSize.t:nd4_pos1">

  <OneOnX id="OneOnX.109" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd4_pos2" name="distribution" x="@popSize.t:nd4_pos2">

  <OneOnX id="OneOnX.113" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd4_pos3" name="distribution" x="@popSize.t:nd4_pos3">

  <OneOnX id="OneOnX.117" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd5_pos1" name="distribution" x="@popSize.t:nd5_pos1">

  <OneOnX id="OneOnX.133" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd5_pos2" name="distribution" x="@popSize.t:nd5_pos2">

  <OneOnX id="OneOnX.137" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd5_pos3" name="distribution" x="@popSize.t:nd5_pos3">

  <OneOnX id="OneOnX.141" name="distr"/>

</prior>

<prior id="PopSizePrior.t:nd6_pos1" name="distribution" x="@popSize.t:nd6_pos1">

  <OneOnX id="OneOnX.145" name="distr"/>

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</prior>

<prior id="PopSizePrior.t:nd6_pos2" name="distribution" x="@popSize.t:nd6_pos2">
  <OneOnX id="OneOnX.149" name="distr"/>
</prior>

<prior id="PopSizePrior.t:nd6_pos3" name="distribution" x="@popSize.t:nd6_pos3">
  <OneOnX id="OneOnX.153" name="distr"/>
</prior>

<prior id="UCMeanRatePrior.c:atp6_pos1" name="distribution"
x="@ucedMean.c:atp6_pos1">
  <Normal id="Normal.89" name="distr">
    <parameter id="RealParameter.1805" spec="parameter.RealParameter"
estimate="false" name="mean">0.0</parameter>
    <parameter id="RealParameter.1806" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
  </Normal>
</prior>

<distribution id="Fl26sq-3Pleuro+Par-oliv+P.o.MRCA.prior"
spec="beast.math.distributions.MRCAPrior" monophyletic="true" tree="@Tree.t:Fl26seq-pt8-
11401-123ps4" useOriginate="true">
  <taxonset id="Fl26sq-3Pleuro+Par-oliv+P.o.MRCA" spec="TaxonSet">
    <taxon id="Cleisthenes_herzensteini_KT223828" spec="Taxon"/>
    <taxon id="Hippoglossoides_platessoides_MN122825" spec="Taxon"/>
    <taxon id="Hippoglossus_hippoglossus_AM749122" spec="Taxon"/>
    <taxon id="Hippoglossus_hippoglossus_AM749123" spec="Taxon"/>
    <taxon id="Hippoglossus_hippoglossus_AM749124" spec="Taxon"/>
    <taxon id="Hippoglossus_stenolepis_AM749126" spec="Taxon"/>
    <taxon id="Hippoglossus_stenolepis_AM749127" spec="Taxon"/>
    <taxon id="Hippoglossus_stenolepis_AM749128" spec="Taxon"/>
    <taxon id="Hippoglossus_stenolepis_AM749129" spec="Taxon"/>
    <taxon id="Limanda_aspera_KP013094" spec="Taxon"/>
    <taxon id="Limanda_limanda_MN122886" spec="Taxon"/>
    <taxon id="Platichthys_stellatus_Ps2011" spec="Taxon"/>
    <taxon id="Pseudopleuronectes_herzensteini_MW713061" spec="Taxon"/>
  </taxonset>
</distribution>

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<taxon id="Pseudopleuronectes_yokohamae_KT224485" spec="Taxon"/>
<taxon id="Pseudopleuronectes_yokohamae_KT878309" spec="Taxon"/>
<taxon id="Reinhardtius_hippoglossoides_AM749130" spec="Taxon"/>
<taxon id="Reinhardtius_hippoglossoides_AM749131" spec="Taxon"/>
<taxon id="Reinhardtius_hippoglossoides_AM749132" spec="Taxon"/>
<taxon id="Reinhardtius_hippoglossoides_AM749133" spec="Taxon"/>
<taxon id="Verasper_moseri_EF025506" spec="Taxon"/>
<taxon id="Verasper_moseri_LC583747" spec="Taxon"/>
<taxon id="Verasper_variegatus_DQ403797" spec="Taxon"/>
<taxon id="Verasper_variegatus_MK210571" spec="Taxon"/>
</taxonset>

<Normal id="Normal.90" name="distr">
  <parameter id="RealParameter.1685" spec="parameter.RealParameter"
estimate="false" name="mean">46.19</parameter>
  <parameter id="RealParameter.1690" spec="parameter.RealParameter"
estimate="false" name="sigma">1.0</parameter>
</Normal>
</distribution>
</distribution>
<distribution id="likelihood" spec="util.CompoundDistribution">
  <distribution id="treeLikelihood.atp6_pos1" spec="TreeLikelihood" data="@atp6_pos1"
tree="@Tree.t:atp6_pos1" useAmbiguities="true">
    <siteModel id="SiteModel.s:atp6_pos1" spec="SiteModel"
gammaCategoryCount="4">
      <parameter id="mutationRate.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">2.0</parameter>
      <parameter id="gammaShape.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>
      <parameter id="proportionInvariant.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.477</parameter>
    <substModel id="gtr.s:atp6_pos1" spec="GTR">
      <parameter id="rateAC.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="rateAC">0.03</parameter>
      <parameter id="rateAG.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="rateAG">0.18</parameter>
    </substModel>
  </distribution>
</distribution>

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        <parameter id="rateAT.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="rateAT">0.03</parameter>

        <parameter id="rateCG.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="rateCG">0.02</parameter>

        <parameter id="rateCT.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="rateCT">0.18</parameter>

        <parameter id="rateGT.s:atp6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="rateGT">0.02</parameter>

        <frequencies id="empiricalFreqs.s:atp6_pos1" spec="Frequencies"
data="@atp6_pos1"/>

    </substModel>

</siteModel>

    <branchRateModel id="ExponentialRelaxedClock.c:atp6_pos1"
spec="beast.evolution.branchratemodel.UCRelaxedClockModel"
clock.rate="@ucedMean.c:atp6_pos1" normalize="true"
rateCategories="@expRateCategories.c:atp6_pos1" tree="@Tree.t:atp6_pos1">

        <Exponential id="Exponential.c:atp6_pos1" name="distr">

            <parameter id="UCExpLambda.c:atp6_pos1" spec="parameter.RealParameter"
name="mean">1.0</parameter>

        </Exponential>

    </branchRateModel>

</distribution>

    <distribution id="treeLikelihood.atp6_pos2" spec="TreeLikelihood" data="@atp6_pos2"
tree="@Tree.t:atp6_pos2" useAmbiguities="true">

        <siteModel id="SiteModel.s:atp6_pos2" spec="SiteModel">

            <parameter id="mutationRate.s:atp6_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:atp6_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

            <parameter id="proportionInvariant.s:atp6_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:atp6_pos2" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:atp6_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:atp6_pos2"/>

</distribution>

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    <distribution id="treeLikelihood.atp6_pos3" spec="TreeLikelihood" data="@atp6_pos3"
tree="@Tree.t:atp6_pos3" useAmbiguities="true">

        <siteModel id="SiteModel.s:atp6_pos3" spec="SiteModel">

            <parameter id="mutationRate.s:atp6_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:atp6_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

            <parameter id="proportionInvariant.s:atp6_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

            <substModel id="JC69.s:atp6_pos3" spec="JukesCantor"/>

        </siteModel>

        <branchRateModel id="StrictClock.c:atp6_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:atp6_pos3"/>

    </distribution>

    <distribution id="treeLikelihood.atp8_pos1" spec="TreeLikelihood" data="@atp8_pos1"
tree="@Tree.t:atp8_pos1" useAmbiguities="true">

        <siteModel id="SiteModel.s:atp8_pos1" spec="SiteModel">

            <parameter id="mutationRate.s:atp8_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:atp8_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

            <parameter id="proportionInvariant.s:atp8_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

            <substModel id="JC69.s:atp8_pos1" spec="JukesCantor"/>

        </siteModel>

        <branchRateModel id="StrictClock.c:atp8_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:atp8_pos1"/>

    </distribution>

    <distribution id="treeLikelihood.atp8_pos2" spec="TreeLikelihood" data="@atp8_pos2"
tree="@Tree.t:atp8_pos2" useAmbiguities="true">

        <siteModel id="SiteModel.s:atp8_pos2" spec="SiteModel">

            <parameter id="mutationRate.s:atp8_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:atp8_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

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        <parameter id="proportionInvariant.s:atp8_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:atp8_pos2" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:atp8_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:atp8_pos2"/>

</distribution>

    <distribution id="treeLikelihood.atp8_pos3" spec="TreeLikelihood" data="@atp8_pos3"
tree="@Tree.t:atp8_pos3" useAmbiguities="true">

        <siteModel id="SiteModel.s:atp8_pos3" spec="SiteModel">

            <parameter id="mutationRate.s:atp8_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:atp8_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

            <parameter id="proportionInvariant.s:atp8_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

            <substModel id="JC69.s:atp8_pos3" spec="JukesCantor"/>

        </siteModel>

        <branchRateModel id="StrictClock.c:atp8_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:atp8_pos3"/>

    </distribution>

    <distribution id="treeLikelihood.coi_pos1" spec="TreeLikelihood" data="@coi_pos1"
tree="@Tree.t:coi_pos1" useAmbiguities="true">

        <siteModel id="SiteModel.s:coi_pos1" spec="SiteModel">

            <parameter id="mutationRate.s:coi_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:coi_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

            <parameter id="proportionInvariant.s:coi_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

            <substModel id="JC69.s:coi_pos1" spec="JukesCantor"/>

        </siteModel>

        <branchRateModel id="StrictClock.c:coi_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coi_pos1"/>

```

```

</distribution>

<distribution id="treeLikelihood.coi_pos2" spec="TreeLikelihood" data="@coi_pos2"
tree="@Tree.t:coi_pos2" useAmbiguities="true">

  <siteModel id="SiteModel.s:coi_pos2" spec="SiteModel">

    <parameter id="mutationRate.s:coi_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:coi_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:coi_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:coi_pos2" spec="JukesCantor"/>

  </siteModel>

  <branchRateModel id="StrictClock.c:coi_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coi_pos2"/>

</distribution>

<distribution id="treeLikelihood.coi_pos3" spec="TreeLikelihood" data="@coi_pos3"
tree="@Tree.t:coi_pos3" useAmbiguities="true">

  <siteModel id="SiteModel.s:coi_pos3" spec="SiteModel">

    <parameter id="mutationRate.s:coi_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:coi_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:coi_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:coi_pos3" spec="JukesCantor"/>

  </siteModel>

  <branchRateModel id="StrictClock.c:coi_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coi_pos3"/>

</distribution>

<distribution id="treeLikelihood.coii_pos1" spec="TreeLikelihood" data="@coii_pos1"
tree="@Tree.t:coii_pos1" useAmbiguities="true">

  <siteModel id="SiteModel.s:coii_pos1" spec="SiteModel">

    <parameter id="mutationRate.s:coii_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

```



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    <parameter id="gammaShape.s:coii_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:coii_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:coii_pos1" spec="JukesCantor"/>

</siteModel>

    <branchRateModel id="StrictClock.c:coii_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coii_pos1"/>

</distribution>

    <distribution id="treeLikelihood.coii_pos2" spec="TreeLikelihood" data="@coii_pos2"
tree="@Tree.t:coii_pos2" useAmbiguities="true">

    <siteModel id="SiteModel.s:coii_pos2" spec="SiteModel">

        <parameter id="mutationRate.s:coii_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:coii_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:coii_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:coii_pos2" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:coii_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coii_pos2"/>

</distribution>

    <distribution id="treeLikelihood.coii_pos3" spec="TreeLikelihood" data="@coii_pos3"
tree="@Tree.t:coii_pos3" useAmbiguities="true">

    <siteModel id="SiteModel.s:coii_pos3" spec="SiteModel">

        <parameter id="mutationRate.s:coii_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:coii_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:coii_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:coii_pos3" spec="JukesCantor"/>

    </siteModel>

```

```

    <branchRateModel id="StrictClock.c:coii_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coii_pos3"/>

</distribution>

<distribution id="treeLikelihood.coiii_pos1" spec="TreeLikelihood" data="@coiii_pos1"
tree="@Tree.t:coiii_pos1" useAmbiguities="true">

    <siteModel id="SiteModel.s:coiii_pos1" spec="SiteModel">

        <parameter id="mutationRate.s:coiii_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:coiii_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:coiii_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:coiii_pos1" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:coiii_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coiii_pos1"/>

</distribution>

<distribution id="treeLikelihood.coiii_pos2" spec="TreeLikelihood" data="@coiii_pos2"
tree="@Tree.t:coiii_pos2" useAmbiguities="true">

    <siteModel id="SiteModel.s:coiii_pos2" spec="SiteModel">

        <parameter id="mutationRate.s:coiii_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:coiii_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:coiii_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:coiii_pos2" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:coiii_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coiii_pos2"/>

</distribution>

<distribution id="treeLikelihood.coiii_pos3" spec="TreeLikelihood" data="@coiii_pos3"
tree="@Tree.t:coiii_pos3" useAmbiguities="true">

    <siteModel id="SiteModel.s:coiii_pos3" spec="SiteModel">

```

```

    <parameter id="mutationRate.s:coiii_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:coiii_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:coiii_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:coiii_pos3" spec="JukesCantor"/>

</siteModel>

    <branchRateModel id="StrictClock.c:coiii_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:coiii_pos3"/>

</distribution>

    <distribution id="treeLikelihood.cytb_pos1" spec="TreeLikelihood" data="@cytb_pos1"
tree="@Tree.t:cytb_pos1" useAmbiguities="true">

    <siteModel id="SiteModel.s:cytb_pos1" spec="SiteModel">

        <parameter id="mutationRate.s:cytb_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:cytb_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:cytb_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:cytb_pos1" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:cytb_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:cytb_pos1"/>

</distribution>

    <distribution id="treeLikelihood.cytb_pos2" spec="TreeLikelihood" data="@cytb_pos2"
tree="@Tree.t:cytb_pos2" useAmbiguities="true">

    <siteModel id="SiteModel.s:cytb_pos2" spec="SiteModel">

        <parameter id="mutationRate.s:cytb_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:cytb_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:cytb_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:cytb_pos2" spec="JukesCantor"/>

```

```

</siteModel>

<branchRateModel id="StrictClock.c:cytb_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:cytb_pos2"/>

</distribution>

<distribution id="treeLikelihood.cytb_pos3" spec="TreeLikelihood" data="@cytb_pos3"
tree="@Tree.t:cytb_pos3" useAmbiguities="true">

<siteModel id="SiteModel.s:cytb_pos3" spec="SiteModel">

<parameter id="mutationRate.s:cytb_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

<parameter id="gammaShape.s:cytb_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

<parameter id="proportionInvariant.s:cytb_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

<substModel id="JC69.s:cytb_pos3" spec="JukesCantor"/>

</siteModel>

<branchRateModel id="StrictClock.c:cytb_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:cytb_pos3"/>

</distribution>

<distribution id="treeLikelihood.nd1_pos1" spec="TreeLikelihood" data="@nd1_pos1"
tree="@Tree.t:nd1_pos1" useAmbiguities="true">

<siteModel id="SiteModel.s:nd1_pos1" spec="SiteModel">

<parameter id="mutationRate.s:nd1_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

<parameter id="gammaShape.s:nd1_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

<parameter id="proportionInvariant.s:nd1_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

<substModel id="JC69.s:nd1_pos1" spec="JukesCantor"/>

</siteModel>

<branchRateModel id="StrictClock.c:nd1_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd1_pos1"/>

</distribution>

<distribution id="treeLikelihood.nd1_pos2" spec="TreeLikelihood" data="@nd1_pos2"
tree="@Tree.t:nd1_pos2" useAmbiguities="true">

```

```

    <siteModel id="SiteModel.s:nd1_pos2" spec="SiteModel">
      <parameter id="mutationRate.s:nd1_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>
      <parameter id="gammaShape.s:nd1_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>
      <parameter id="proportionInvariant.s:nd1_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>
      <substModel id="JC69.s:nd1_pos2" spec="JukesCantor"/>
    </siteModel>

    <branchRateModel id="StrictClock.c:nd1_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd1_pos2"/>

  </distribution>

  <distribution id="treeLikelihood.nd1_pos3" spec="TreeLikelihood" data="@nd1_pos3"
tree="@Tree.t:nd1_pos3" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd1_pos3" spec="SiteModel">
      <parameter id="mutationRate.s:nd1_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>
      <parameter id="gammaShape.s:nd1_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>
      <parameter id="proportionInvariant.s:nd1_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>
      <substModel id="JC69.s:nd1_pos3" spec="JukesCantor"/>
    </siteModel>

    <branchRateModel id="StrictClock.c:nd1_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd1_pos3"/>

  </distribution>

  <distribution id="treeLikelihood.nd2_pos1" spec="TreeLikelihood" data="@nd2_pos1"
tree="@Tree.t:nd2_pos1" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd2_pos1" spec="SiteModel">
      <parameter id="mutationRate.s:nd2_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>
      <parameter id="gammaShape.s:nd2_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>
      <parameter id="proportionInvariant.s:nd2_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

```

```

    <substModel id="JC69.s:nd2_pos1" spec="JukesCantor"/>

  </siteModel>

  <branchRateModel id="StrictClock.c:nd2_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd2_pos1"/>

</distribution>

<distribution id="treeLikelihood.nd2_pos2" spec="TreeLikelihood" data="@nd2_pos2"
tree="@Tree.t:nd2_pos2" useAmbiguities="true">

  <siteModel id="SiteModel.s:nd2_pos2" spec="SiteModel">

    <parameter id="mutationRate.s:nd2_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:nd2_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:nd2_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:nd2_pos2" spec="JukesCantor"/>

  </siteModel>

  <branchRateModel id="StrictClock.c:nd2_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd2_pos2"/>

</distribution>

<distribution id="treeLikelihood.nd2_pos3" spec="TreeLikelihood" data="@nd2_pos3"
tree="@Tree.t:nd2_pos3" useAmbiguities="true">

  <siteModel id="SiteModel.s:nd2_pos3" spec="SiteModel">

    <parameter id="mutationRate.s:nd2_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:nd2_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:nd2_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:nd2_pos3" spec="JukesCantor"/>

  </siteModel>

  <branchRateModel id="StrictClock.c:nd2_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd2_pos3"/>

</distribution>

```

```

    <distribution id="treeLikelihood.nd3_pos1" spec="TreeLikelihood" data="@nd3_pos1"
tree="@Tree.t:nd3_pos1" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd3_pos1" spec="SiteModel">

        <parameter id="mutationRate.s:nd3_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd3_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd3_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd3_pos1" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:nd3_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd3_pos1"/>

</distribution>

    <distribution id="treeLikelihood.nd3_pos2" spec="TreeLikelihood" data="@nd3_pos2"
tree="@Tree.t:nd3_pos2" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd3_pos2" spec="SiteModel">

        <parameter id="mutationRate.s:nd3_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd3_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd3_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd3_pos2" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:nd3_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd3_pos2"/>

</distribution>

    <distribution id="treeLikelihood.nd3_pos3" spec="TreeLikelihood" data="@nd3_pos3"
tree="@Tree.t:nd3_pos3" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd3_pos3" spec="SiteModel">

        <parameter id="mutationRate.s:nd3_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd3_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

```

```

        <parameter id="proportionInvariant.s:nd3_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd3_pos3" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:nd3_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd3_pos3"/>

</distribution>

    <distribution id="treeLikelihood.nd4_pos1" spec="TreeLikelihood" data="@nd4_pos1"
tree="@Tree.t:nd4_pos1" useAmbiguities="true">

        <siteModel id="SiteModel.s:nd4_pos1" spec="SiteModel">

            <parameter id="mutationRate.s:nd4_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:nd4_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

            <parameter id="proportionInvariant.s:nd4_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

            <substModel id="JC69.s:nd4_pos1" spec="JukesCantor"/>

        </siteModel>

        <branchRateModel id="StrictClock.c:nd4_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd4_pos1"/>

    </distribution>

    <distribution id="treeLikelihood.nd4_pos2" spec="TreeLikelihood" data="@nd4_pos2"
tree="@Tree.t:nd4_pos2" useAmbiguities="true">

        <siteModel id="SiteModel.s:nd4_pos2" spec="SiteModel">

            <parameter id="mutationRate.s:nd4_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

            <parameter id="gammaShape.s:nd4_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

            <parameter id="proportionInvariant.s:nd4_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

            <substModel id="JC69.s:nd4_pos2" spec="JukesCantor"/>

        </siteModel>

        <branchRateModel id="StrictClock.c:nd4_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd4_pos2"/>

```



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</distribution>

<distribution id="treeLikelihood.nd4_pos3" spec="TreeLikelihood" data="@nd4_pos3"
tree="@Tree.t:nd4_pos3" useAmbiguities="true">

  <siteModel id="SiteModel.s:nd4_pos3" spec="SiteModel">

    <parameter id="mutationRate.s:nd4_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:nd4_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:nd4_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:nd4_pos3" spec="JukesCantor"/>

  </siteModel>

  <branchRateModel id="StrictClock.c:nd4_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd4_pos3"/>

</distribution>

<distribution id="treeLikelihood.nd4L_pos1" spec="TreeLikelihood"
data="@nd4L_pos1" tree="@Tree.t:nd4L_pos1" useAmbiguities="true">

  <siteModel id="SiteModel.s:nd4L_pos1" spec="SiteModel">

    <parameter id="mutationRate.s:nd4L_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:nd4L_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:nd4L_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:nd4L_pos1" spec="JukesCantor"/>

  </siteModel>

  <branchRateModel id="StrictClock.c:nd4L_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd4L_pos1"/>

</distribution>

<distribution id="treeLikelihood.nd4L_pos2" spec="TreeLikelihood"
data="@nd4L_pos2" tree="@Tree.t:nd4L_pos2" useAmbiguities="true">

  <siteModel id="SiteModel.s:nd4L_pos2" spec="SiteModel">

    <parameter id="mutationRate.s:nd4L_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

```

```

    <parameter id="gammaShape.s:nd4L_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:nd4L_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:nd4L_pos2" spec="JukesCantor"/>

</siteModel>

    <branchRateModel id="StrictClock.c:nd4L_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd4L_pos2"/>

</distribution>

    <distribution id="treeLikelihood.nd4L_pos3" spec="TreeLikelihood"
data="@nd4L_pos3" tree="@Tree.t:nd4L_pos3" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd4L_pos3" spec="SiteModel">

        <parameter id="mutationRate.s:nd4L_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd4L_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd4L_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd4L_pos3" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:nd4L_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd4L_pos3"/>

</distribution>

    <distribution id="treeLikelihood.nd5_pos1" spec="TreeLikelihood" data="@nd5_pos1"
tree="@Tree.t:nd5_pos1" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd5_pos1" spec="SiteModel">

        <parameter id="mutationRate.s:nd5_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd5_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd5_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd5_pos1" spec="JukesCantor"/>

    </siteModel>

```

```

    <branchRateModel id="StrictClock.c:nd5_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd5_pos1"/>

</distribution>

<distribution id="treeLikelihood.nd5_pos2" spec="TreeLikelihood" data="@nd5_pos2"
tree="@Tree.t:nd5_pos2" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd5_pos2" spec="SiteModel">

        <parameter id="mutationRate.s:nd5_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd5_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd5_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd5_pos2" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:nd5_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd5_pos2"/>

</distribution>

<distribution id="treeLikelihood.nd5_pos3" spec="TreeLikelihood" data="@nd5_pos3"
tree="@Tree.t:nd5_pos3" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd5_pos3" spec="SiteModel">

        <parameter id="mutationRate.s:nd5_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd5_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd5_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd5_pos3" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:nd5_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd5_pos3"/>

</distribution>

<distribution id="treeLikelihood.nd6_pos1" spec="TreeLikelihood" data="@nd6_pos1"
tree="@Tree.t:nd6_pos1" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd6_pos1" spec="SiteModel">

```

```

    <parameter id="mutationRate.s:nd6_pos1" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

    <parameter id="gammaShape.s:nd6_pos1" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

    <parameter id="proportionInvariant.s:nd6_pos1" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

    <substModel id="JC69.s:nd6_pos1" spec="JukesCantor"/>

</siteModel>

    <branchRateModel id="StrictClock.c:nd6_pos1"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd6_pos1"/>

</distribution>

    <distribution id="treeLikelihood.nd6_pos2" spec="TreeLikelihood" data="@nd6_pos2"
tree="@Tree.t:nd6_pos2" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd6_pos2" spec="SiteModel">

        <parameter id="mutationRate.s:nd6_pos2" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd6_pos2" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd6_pos2" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd6_pos2" spec="JukesCantor"/>

    </siteModel>

    <branchRateModel id="StrictClock.c:nd6_pos2"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd6_pos2"/>

</distribution>

    <distribution id="treeLikelihood.nd6_pos3" spec="TreeLikelihood" data="@nd6_pos3"
tree="@Tree.t:nd6_pos3" useAmbiguities="true">

    <siteModel id="SiteModel.s:nd6_pos3" spec="SiteModel">

        <parameter id="mutationRate.s:nd6_pos3" spec="parameter.RealParameter"
estimate="false" name="mutationRate">1.0</parameter>

        <parameter id="gammaShape.s:nd6_pos3" spec="parameter.RealParameter"
estimate="false" name="shape">1.0</parameter>

        <parameter id="proportionInvariant.s:nd6_pos3" spec="parameter.RealParameter"
estimate="false" lower="0.0" name="proportionInvariant" upper="1.0">0.0</parameter>

        <substModel id="JC69.s:nd6_pos3" spec="JukesCantor"/>

```

```

</siteModel>

<branchRateModel id="StrictClock.c:nd6_pos3"
spec="beast.evolution.branchratemodel.StrictClockModel"
clock.rate="@clockRate.c:nd6_pos3"/>

</distribution>

<distribution id="treeLikelihood.Fl26seq-pt8-11401-123ps4" spec="TreeLikelihood"
data="@Fl26seq-pt8-11401-123ps4" tree="@Tree.t:Fl26seq-pt8-11401-123ps4"
useAmbiguities="true">

<siteModel id="SiteModel.s:Fl26seq-pt8-11401-123ps4" spec="SiteModel">

<parameter id="mutationRate.s:Fl26seq-pt8-11401-123ps4"
spec="parameter.RealParameter" estimate="false" name="mutationRate">1.0</parameter>

<parameter id="gammaShape.s:Fl26seq-pt8-11401-123ps4"
spec="parameter.RealParameter" estimate="false" name="shape">1.0</parameter>

<parameter id="proportionInvariant.s:Fl26seq-pt8-11401-123ps4"
spec="parameter.RealParameter" estimate="false" lower="0.0" name="proportionInvariant"
upper="1.0">0.0</parameter>

<substModel id="JC69.s:Fl26seq-pt8-11401-123ps4" spec="JukesCantor"/>

</siteModel>

<branchRateModel id="StrictClock.c:Fl26seq-pt8-11401-123ps4"
spec="beast.evolution.branchratemodel.StrictClockModel" clock.rate="@clockRate.c:Fl26seq-
pt8-11401-123ps4"/>

</distribution>

</distribution>

</distribution>

<operator id="StrictClockRateScaler.c:nd4_pos3" spec="ScaleOperator"
parameter="@clockRate.c:nd4_pos3" weight="3.0"/>

<operator id="treeScaler.t:nd4_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd4_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:nd4_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd4_pos3" weight="3.0"/>

<operator id="UniformOperator.t:nd4_pos3" spec="Uniform" tree="@Tree.t:nd4_pos3"
weight="30.0"/>

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<operator id="SubtreeSlide.t:nd4_pos3" spec="SubtreeSlide" tree="@Tree.t:nd4_pos3"
weight="15.0"/>

<operator id="narrow.t:nd4_pos3" spec="Exchange" tree="@Tree.t:nd4_pos3"
weight="15.0"/>

<operator id="wide.t:nd4_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:nd4_pos3" spec="WilsonBalding" tree="@Tree.t:nd4_pos3"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd4_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd4_pos3"/>

<down idref="Tree.t:nd4_pos3"/>

</operator>

<operator id="treeScaler.t:atp6_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="treeRootScaler.t:atp6_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="UniformOperator.t:atp6_pos1" spec="Uniform" tree="@Tree.t:atp6_pos1"
weight="30.0"/>

<operator id="SubtreeSlide.t:atp6_pos1" spec="SubtreeSlide" tree="@Tree.t:atp6_pos1"
weight="15.0"/>

<operator id="narrow.t:atp6_pos1" spec="Exchange" tree="@Tree.t:atp6_pos1"
weight="15.0"/>

<operator id="wide.t:atp6_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="WilsonBalding.t:atp6_pos1" spec="WilsonBalding" tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="StrictClockRateScaler.c:atp8_pos2" spec="ScaleOperator" parameter="@clockRate.c:atp8_pos2" weight="3.0"/>

<operator id="treeScaler.t:atp8_pos2" spec="ScaleOperator" scaleFactor="0.5" tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="treeRootScaler.t:atp8_pos2" spec="ScaleOperator" rootOnly="true" scaleFactor="0.5" tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="UniformOperator.t:atp8_pos2" spec="Uniform" tree="@Tree.t:atp8_pos2" weight="30.0"/>

<operator id="SubtreeSlide.t:atp8_pos2" spec="SubtreeSlide" tree="@Tree.t:atp8_pos2" weight="15.0"/>

<operator id="narrow.t:atp8_pos2" spec="Exchange" tree="@Tree.t:atp8_pos2" weight="15.0"/>

<operator id="wide.t:atp8_pos2" spec="Exchange" isNarrow="false" tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="WilsonBalding.t:atp8_pos2" spec="WilsonBalding" tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:atp8_pos2" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:atp8_pos2"/>

<down idref="Tree.t:atp8_pos2"/>

</operator>

<operator id="StrictClockRateScaler.c:nd4L_pos3" spec="ScaleOperator" parameter="@clockRate.c:nd4L_pos3" weight="3.0"/>

<operator id="treeScaler.t:nd4L_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd4L_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:nd4L_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd4L_pos3" weight="3.0"/>

<operator id="UniformOperator.t:nd4L_pos3" spec="Uniform" tree="@Tree.t:nd4L_pos3"
weight="30.0"/>

<operator id="SubtreeSlide.t:nd4L_pos3" spec="SubtreeSlide" tree="@Tree.t:nd4L_pos3"
weight="15.0"/>

<operator id="narrow.t:nd4L_pos3" spec="Exchange" tree="@Tree.t:nd4L_pos3"
weight="15.0"/>

<operator id="wide.t:nd4L_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4L_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:nd4L_pos3" spec="WilsonBalding"
tree="@Tree.t:nd4L_pos3" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd4L_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd4L_pos3"/>

<down idref="Tree.t:nd4L_pos3"/>

</operator>

<operator id="StrictClockRateScaler.c:coi_pos3" spec="ScaleOperator"
parameter="@clockRate.c:coi_pos3" weight="3.0"/>

<operator id="treeScaler.t:coi_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:coi_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:coi_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:coi_pos3" weight="3.0"/>


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<operator id="UniformOperator.t:coi_pos3" spec="Uniform" tree="@Tree.t:coi_pos3"
weight="30.0"/>
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```
<operator id="SubtreeSlide.t:coi_pos3" spec="SubtreeSlide" tree="@Tree.t:coi_pos3"
weight="15.0"/>
```

```
<operator id="narrow.t:coi_pos3" spec="Exchange" tree="@Tree.t:coi_pos3"
weight="15.0"/>
```

```
<operator id="wide.t:coi_pos3" spec="Exchange" isNarrow="false" tree="@Tree.t:coi_pos3"
weight="3.0"/>
```

```
<operator id="WilsonBalding.t:coi_pos3" spec="WilsonBalding" tree="@Tree.t:coi_pos3"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:coi_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:coi_pos3"/>
```

```
<down idref="Tree.t:coi_pos3"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd2_pos3" spec="ScaleOperator"
parameter="@clockRate.c:nd2_pos3" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd2_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd2_pos3" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd2_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd2_pos3" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd2_pos3" spec="Uniform" tree="@Tree.t:nd2_pos3"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd2_pos3" spec="SubtreeSlide" tree="@Tree.t:nd2_pos3"
weight="15.0"/>
```

<operator id="narrow.t:nd2_pos3" spec="Exchange" tree="@Tree.t:nd2_pos3"
weight="15.0"/>

<operator id="wide.t:nd2_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd2_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:nd2_pos3" spec="WilsonBalding" tree="@Tree.t:nd2_pos3"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd2_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd2_pos3"/>

<down idref="Tree.t:nd2_pos3"/>

</operator>

<operator id="StrictClockRateScaler.c:coiii_pos2" spec="ScaleOperator"
parameter="@clockRate.c:coiii_pos2" weight="3.0"/>

<operator id="treeScaler.t:coiii_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="treeRootScaler.t:coiii_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="UniformOperator.t:coiii_pos2" spec="Uniform" tree="@Tree.t:coiii_pos2"
weight="30.0"/>

<operator id="SubtreeSlide.t:coiii_pos2" spec="SubtreeSlide" tree="@Tree.t:coiii_pos2"
weight="15.0"/>

<operator id="narrow.t:coiii_pos2" spec="Exchange" tree="@Tree.t:coiii_pos2"
weight="15.0"/>

<operator id="wide.t:coiii_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="WilsonBalding.t:coiii_pos2" spec="WilsonBalding" tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:coiii_pos2" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:coiii_pos2"/>

<down idref="Tree.t:coiii_pos2"/>

</operator>

<operator id="StrictClockRateScaler.c:nd6_pos3" spec="ScaleOperator" parameter="@clockRate.c:nd6_pos3" weight="3.0"/>

<operator id="treeScaler.t:nd6_pos3" spec="ScaleOperator" scaleFactor="0.5" tree="@Tree.t:nd6_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:nd6_pos3" spec="ScaleOperator" rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd6_pos3" weight="3.0"/>

<operator id="UniformOperator.t:nd6_pos3" spec="Uniform" tree="@Tree.t:nd6_pos3" weight="30.0"/>

<operator id="SubtreeSlide.t:nd6_pos3" spec="SubtreeSlide" tree="@Tree.t:nd6_pos3" weight="15.0"/>

<operator id="narrow.t:nd6_pos3" spec="Exchange" tree="@Tree.t:nd6_pos3" weight="15.0"/>

<operator id="wide.t:nd6_pos3" spec="Exchange" isNarrow="false" tree="@Tree.t:nd6_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:nd6_pos3" spec="WilsonBalding" tree="@Tree.t:nd6_pos3" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd6_pos3" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd6_pos3"/>

```

    <down idref="Tree.t:nd6_pos3"/>

</operator>

<operator id="StrictClockRateScaler.c:nd1_pos3" spec="ScaleOperator"
parameter="@clockRate.c:nd1_pos3" weight="3.0"/>

<operator id="treeScaler.t:nd1_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd1_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:nd1_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd1_pos3" weight="3.0"/>

<operator id="UniformOperator.t:nd1_pos3" spec="Uniform" tree="@Tree.t:nd1_pos3"
weight="30.0"/>

<operator id="SubtreeSlide.t:nd1_pos3" spec="SubtreeSlide" tree="@Tree.t:nd1_pos3"
weight="15.0"/>

<operator id="narrow.t:nd1_pos3" spec="Exchange" tree="@Tree.t:nd1_pos3"
weight="15.0"/>

<operator id="wide.t:nd1_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd1_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:nd1_pos3" spec="WilsonBalding" tree="@Tree.t:nd1_pos3"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd1_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
    <up idref="clockRate.c:nd1_pos3"/>
    <down idref="Tree.t:nd1_pos3"/>
</operator>

<operator id="StrictClockRateScaler.c:coii_pos3" spec="ScaleOperator"
parameter="@clockRate.c:coii_pos3" weight="3.0"/>

```

```
<operator id="treeScaler.t:coii_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:coii_pos3" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:coii_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:coii_pos3" weight="3.0"/>
```

```
<operator id="UniformOperator.t:coii_pos3" spec="Uniform" tree="@Tree.t:coii_pos3"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:coii_pos3" spec="SubtreeSlide" tree="@Tree.t:coii_pos3"
weight="15.0"/>
```

```
<operator id="narrow.t:coii_pos3" spec="Exchange" tree="@Tree.t:coii_pos3"
weight="15.0"/>
```

```
<operator id="wide.t:coii_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:coii_pos3" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:coii_pos3" spec="WilsonBalding" tree="@Tree.t:coii_pos3"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:coii_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:coii_pos3"/>
```

```
<down idref="Tree.t:coii_pos3"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd2_pos2" spec="ScaleOperator"
parameter="@clockRate.c:nd2_pos2" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd2_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd2_pos2" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd2_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd2_pos2" weight="3.0"/>
```

<operator id="UniformOperator.t:nd2_pos2" spec="Uniform" tree="@Tree.t:nd2_pos2"
weight="30.0"/>

<operator id="SubtreeSlide.t:nd2_pos2" spec="SubtreeSlide" tree="@Tree.t:nd2_pos2"
weight="15.0"/>

<operator id="narrow.t:nd2_pos2" spec="Exchange" tree="@Tree.t:nd2_pos2"
weight="15.0"/>

<operator id="wide.t:nd2_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd2_pos2" weight="3.0"/>

<operator id="WilsonBalding.t:nd2_pos2" spec="WilsonBalding" tree="@Tree.t:nd2_pos2"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd2_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd2_pos2"/>

<down idref="Tree.t:nd2_pos2"/>

</operator>

<operator id="StrictClockRateScaler.c:nd4L_pos1" spec="ScaleOperator"
parameter="@clockRate.c:nd4L_pos1" weight="3.0"/>

<operator id="treeScaler.t:nd4L_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd4L_pos1" weight="3.0"/>

<operator id="treeRootScaler.t:nd4L_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd4L_pos1" weight="3.0"/>

<operator id="UniformOperator.t:nd4L_pos1" spec="Uniform" tree="@Tree.t:nd4L_pos1"
weight="30.0"/>

<operator id="SubtreeSlide.t:nd4L_pos1" spec="SubtreeSlide" tree="@Tree.t:nd4L_pos1"
weight="15.0"/>

```
<operator id="narrow.t:nd4L_pos1" spec="Exchange" tree="@Tree.t:nd4L_pos1"
weight="15.0"/>
```

```
<operator id="wide.t:nd4L_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4L_pos1" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd4L_pos1" spec="WilsonBalding"
tree="@Tree.t:nd4L_pos1" weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:nd4L_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd4L_pos1"/>
```

```
<down idref="Tree.t:nd4L_pos1"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:coi_pos2" spec="ScaleOperator"
parameter="@clockRate.c:coi_pos2" weight="3.0"/>
```

```
<operator id="treeScaler.t:coi_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:coi_pos2" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:coi_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:coi_pos2" weight="3.0"/>
```

```
<operator id="UniformOperator.t:coi_pos2" spec="Uniform" tree="@Tree.t:coi_pos2"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:coi_pos2" spec="SubtreeSlide" tree="@Tree.t:coi_pos2"
weight="15.0"/>
```

```
<operator id="narrow.t:coi_pos2" spec="Exchange" tree="@Tree.t:coi_pos2"
weight="15.0"/>
```

```
<operator id="wide.t:coi_pos2" spec="Exchange" isNarrow="false" tree="@Tree.t:coi_pos2"
weight="3.0"/>
```

<operator id="WilsonBalding.t:coi_pos2" spec="WilsonBalding" tree="@Tree.t:coi_pos2" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:coi_pos2" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:coi_pos2"/>

<down idref="Tree.t:coi_pos2"/>

</operator>

<operator id="StrictClockRateScaler.c:coii_pos2" spec="ScaleOperator" parameter="@clockRate.c:coii_pos2" weight="3.0"/>

<operator id="treeScaler.t:coii_pos2" spec="ScaleOperator" scaleFactor="0.5" tree="@Tree.t:coii_pos2" weight="3.0"/>

<operator id="treeRootScaler.t:coii_pos2" spec="ScaleOperator" rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coii_pos2" weight="3.0"/>

<operator id="UniformOperator.t:coii_pos2" spec="Uniform" tree="@Tree.t:coii_pos2" weight="30.0"/>

<operator id="SubtreeSlide.t:coii_pos2" spec="SubtreeSlide" tree="@Tree.t:coii_pos2" weight="15.0"/>

<operator id="narrow.t:coii_pos2" spec="Exchange" tree="@Tree.t:coii_pos2" weight="15.0"/>

<operator id="wide.t:coii_pos2" spec="Exchange" isNarrow="false" tree="@Tree.t:coii_pos2" weight="3.0"/>

<operator id="WilsonBalding.t:coii_pos2" spec="WilsonBalding" tree="@Tree.t:coii_pos2" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:coii_pos2" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">


```

    <up idref="clockRate.c:coii_pos2"/>

    <down idref="Tree.t:coii_pos2"/>

</operator>

<operator id="StrictClockRateScaler.c:coii_pos1" spec="ScaleOperator"
parameter="@clockRate.c:coii_pos1" weight="3.0"/>

<operator id="treeScaler.t:coii_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:coii_pos1" weight="3.0"/>

<operator id="treeRootScaler.t:coii_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:coii_pos1" weight="3.0"/>

<operator id="UniformOperator.t:coii_pos1" spec="Uniform" tree="@Tree.t:coii_pos1"
weight="30.0"/>

<operator id="SubtreeSlide.t:coii_pos1" spec="SubtreeSlide" tree="@Tree.t:coii_pos1"
weight="15.0"/>

<operator id="narrow.t:coii_pos1" spec="Exchange" tree="@Tree.t:coii_pos1"
weight="15.0"/>

<operator id="wide.t:coii_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:coii_pos1" weight="3.0"/>

<operator id="WilsonBalding.t:coii_pos1" spec="WilsonBalding" tree="@Tree.t:coii_pos1"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:coii_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

    <up idref="clockRate.c:coii_pos1"/>

    <down idref="Tree.t:coii_pos1"/>

</operator>

```

<operator id="StrictClockRateScaler.c:nd1_pos1" spec="ScaleOperator"
parameter="@clockRate.c:nd1_pos1" weight="3.0"/>

<operator id="treeScaler.t:nd1_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd1_pos1" weight="3.0"/>

<operator id="treeRootScaler.t:nd1_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd1_pos1" weight="3.0"/>

<operator id="UniformOperator.t:nd1_pos1" spec="Uniform" tree="@Tree.t:nd1_pos1"
weight="30.0"/>

<operator id="SubtreeSlide.t:nd1_pos1" spec="SubtreeSlide" tree="@Tree.t:nd1_pos1"
weight="15.0"/>

<operator id="narrow.t:nd1_pos1" spec="Exchange" tree="@Tree.t:nd1_pos1"
weight="15.0"/>

<operator id="wide.t:nd1_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd1_pos1" weight="3.0"/>

<operator id="WilsonBalding.t:nd1_pos1" spec="WilsonBalding" tree="@Tree.t:nd1_pos1"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd1_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd1_pos1"/>

<down idref="Tree.t:nd1_pos1"/>

</operator>

<operator id="StrictClockRateScaler.c:nd4_pos1" spec="ScaleOperator"
parameter="@clockRate.c:nd4_pos1" weight="3.0"/>

<operator id="treeScaler.t:nd4_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd4_pos1" weight="3.0"/>

```
<operator id="treeRootScaler.t:nd4_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd4_pos1" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd4_pos1" spec="Uniform" tree="@Tree.t:nd4_pos1"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd4_pos1" spec="SubtreeSlide" tree="@Tree.t:nd4_pos1"
weight="15.0"/>
```

```
<operator id="narrow.t:nd4_pos1" spec="Exchange" tree="@Tree.t:nd4_pos1"
weight="15.0"/>
```

```
<operator id="wide.t:nd4_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4_pos1" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd4_pos1" spec="WilsonBalding" tree="@Tree.t:nd4_pos1"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:nd4_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd4_pos1"/>
```

```
<down idref="Tree.t:nd4_pos1"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd5_pos1" spec="ScaleOperator"
parameter="@clockRate.c:nd5_pos1" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd5_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd5_pos1" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd5_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd5_pos1" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd5_pos1" spec="Uniform" tree="@Tree.t:nd5_pos1"
weight="30.0"/>
```

<operator id="SubtreeSlide.t:nd5_pos1" spec="SubtreeSlide" tree="@Tree.t:nd5_pos1"
weight="15.0"/>

<operator id="narrow.t:nd5_pos1" spec="Exchange" tree="@Tree.t:nd5_pos1"
weight="15.0"/>

<operator id="wide.t:nd5_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd5_pos1" weight="3.0"/>

<operator id="WilsonBalding.t:nd5_pos1" spec="WilsonBalding" tree="@Tree.t:nd5_pos1"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd5_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd5_pos1"/>

<down idref="Tree.t:nd5_pos1"/>

</operator>

<operator id="StrictClockRateScaler.c:atp6_pos2" spec="ScaleOperator"
parameter="@clockRate.c:atp6_pos2" weight="3.0"/>

<operator id="treeScaler.t:atp6_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:atp6_pos2" weight="3.0"/>

<operator id="treeRootScaler.t:atp6_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:atp6_pos2" weight="3.0"/>

<operator id="UniformOperator.t:atp6_pos2" spec="Uniform" tree="@Tree.t:atp6_pos2"
weight="30.0"/>

<operator id="SubtreeSlide.t:atp6_pos2" spec="SubtreeSlide" tree="@Tree.t:atp6_pos2"
weight="15.0"/>

<operator id="narrow.t:atp6_pos2" spec="Exchange" tree="@Tree.t:atp6_pos2"
weight="15.0"/>

```
<operator id="wide.t:atp6_pos2" spec="Exchange" isNarrow="false"  
tree="@Tree.t:atp6_pos2" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:atp6_pos2" spec="WilsonBalding" tree="@Tree.t:atp6_pos2"  
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:atp6_pos2" spec="UpDownOperator"  
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:atp6_pos2"/>
```

```
<down idref="Tree.t:atp6_pos2"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd5_pos3" spec="ScaleOperator"  
parameter="@clockRate.c:nd5_pos3" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd5_pos3" spec="ScaleOperator" scaleFactor="0.5"  
tree="@Tree.t:nd5_pos3" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd5_pos3" spec="ScaleOperator" rootOnly="true"  
scaleFactor="0.5" tree="@Tree.t:nd5_pos3" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd5_pos3" spec="Uniform" tree="@Tree.t:nd5_pos3"  
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd5_pos3" spec="SubtreeSlide" tree="@Tree.t:nd5_pos3"  
weight="15.0"/>
```

```
<operator id="narrow.t:nd5_pos3" spec="Exchange" tree="@Tree.t:nd5_pos3"  
weight="15.0"/>
```

```
<operator id="wide.t:nd5_pos3" spec="Exchange" isNarrow="false"  
tree="@Tree.t:nd5_pos3" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd5_pos3" spec="WilsonBalding" tree="@Tree.t:nd5_pos3"  
weight="3.0"/>
```

<operator id="strictClockUpDownOperator.c:nd5_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd5_pos3"/>

<down idref="Tree.t:nd5_pos3"/>

</operator>

<operator id="StrictClockRateScaler.c:atp6_pos3" spec="ScaleOperator"
parameter="@clockRate.c:atp6_pos3" weight="3.0"/>

<operator id="treeScaler.t:atp6_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:atp6_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:atp6_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:atp6_pos3" weight="3.0"/>

<operator id="UniformOperator.t:atp6_pos3" spec="Uniform" tree="@Tree.t:atp6_pos3"
weight="30.0"/>

<operator id="SubtreeSlide.t:atp6_pos3" spec="SubtreeSlide" tree="@Tree.t:atp6_pos3"
weight="15.0"/>

<operator id="narrow.t:atp6_pos3" spec="Exchange" tree="@Tree.t:atp6_pos3"
weight="15.0"/>

<operator id="wide.t:atp6_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp6_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:atp6_pos3" spec="WilsonBalding" tree="@Tree.t:atp6_pos3"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:atp6_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:atp6_pos3"/>

<down idref="Tree.t:atp6_pos3"/>

</operator>

```
<operator id="StrictClockRateScaler.c:nd3_pos1" spec="ScaleOperator"
parameter="@clockRate.c:nd3_pos1" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd3_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd3_pos1" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd3_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd3_pos1" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd3_pos1" spec="Uniform" tree="@Tree.t:nd3_pos1"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd3_pos1" spec="SubtreeSlide" tree="@Tree.t:nd3_pos1"
weight="15.0"/>
```

```
<operator id="narrow.t:nd3_pos1" spec="Exchange" tree="@Tree.t:nd3_pos1"
weight="15.0"/>
```

```
<operator id="wide.t:nd3_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd3_pos1" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd3_pos1" spec="WilsonBalding" tree="@Tree.t:nd3_pos1"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:nd3_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd3_pos1"/>
```

```
<down idref="Tree.t:nd3_pos1"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd6_pos2" spec="ScaleOperator"
parameter="@clockRate.c:nd6_pos2" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd6_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd6_pos2" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd6_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd6_pos2" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd6_pos2" spec="Uniform" tree="@Tree.t:nd6_pos2"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd6_pos2" spec="SubtreeSlide" tree="@Tree.t:nd6_pos2"
weight="15.0"/>
```

```
<operator id="narrow.t:nd6_pos2" spec="Exchange" tree="@Tree.t:nd6_pos2"
weight="15.0"/>
```

```
<operator id="wide.t:nd6_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd6_pos2" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd6_pos2" spec="WilsonBalding" tree="@Tree.t:nd6_pos2"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:nd6_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd6_pos2"/>
```

```
<down idref="Tree.t:nd6_pos2"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:coiii_pos1" spec="ScaleOperator"
parameter="@clockRate.c:coiii_pos1" weight="3.0"/>
```

```
<operator id="treeScaler.t:coiii_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:coiii_pos1" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:coiii_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:coiii_pos1" weight="3.0"/>
```

```
<operator id="UniformOperator.t:coiii_pos1" spec="Uniform" tree="@Tree.t:coiii_pos1"
weight="30.0"/>
```


<operator id="SubtreeSlide.t:coiii_pos1" spec="SubtreeSlide" tree="@Tree.t:coiii_pos1"
weight="15.0"/>

<operator id="narrow.t:coiii_pos1" spec="Exchange" tree="@Tree.t:coiii_pos1"
weight="15.0"/>

<operator id="wide.t:coiii_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:coiii_pos1" weight="3.0"/>

<operator id="WilsonBalding.t:coiii_pos1" spec="WilsonBalding" tree="@Tree.t:coiii_pos1"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:coiii_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:coiii_pos1"/>

<down idref="Tree.t:coiii_pos1"/>

</operator>

<operator id="StrictClockRateScaler.c:atp8_pos1" spec="ScaleOperator"
parameter="@clockRate.c:atp8_pos1" weight="3.0"/>

<operator id="treeScaler.t:atp8_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:atp8_pos1" weight="3.0"/>

<operator id="treeRootScaler.t:atp8_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:atp8_pos1" weight="3.0"/>

<operator id="UniformOperator.t:atp8_pos1" spec="Uniform" tree="@Tree.t:atp8_pos1"
weight="30.0"/>

<operator id="SubtreeSlide.t:atp8_pos1" spec="SubtreeSlide" tree="@Tree.t:atp8_pos1"
weight="15.0"/>

<operator id="narrow.t:atp8_pos1" spec="Exchange" tree="@Tree.t:atp8_pos1"
weight="15.0"/>

<operator id="wide.t:atp8_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp8_pos1" weight="3.0"/>

<operator id="WilsonBalding.t:atp8_pos1" spec="WilsonBalding" tree="@Tree.t:atp8_pos1"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:atp8_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:atp8_pos1"/>

<down idref="Tree.t:atp8_pos1"/>

</operator>

<operator id="StrictClockRateScaler.c:nd5_pos2" spec="ScaleOperator"
parameter="@clockRate.c:nd5_pos2" weight="3.0"/>

<operator id="treeScaler.t:nd5_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd5_pos2" weight="3.0"/>

<operator id="treeRootScaler.t:nd5_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd5_pos2" weight="3.0"/>

<operator id="UniformOperator.t:nd5_pos2" spec="Uniform" tree="@Tree.t:nd5_pos2"
weight="30.0"/>

<operator id="SubtreeSlide.t:nd5_pos2" spec="SubtreeSlide" tree="@Tree.t:nd5_pos2"
weight="15.0"/>

<operator id="narrow.t:nd5_pos2" spec="Exchange" tree="@Tree.t:nd5_pos2"
weight="15.0"/>

<operator id="wide.t:nd5_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd5_pos2" weight="3.0"/>

<operator id="WilsonBalding.t:nd5_pos2" spec="WilsonBalding" tree="@Tree.t:nd5_pos2"
weight="3.0"/>

```
<operator id="strictClockUpDownOperator.c:nd5_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd5_pos2"/>
```

```
<down idref="Tree.t:nd5_pos2"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd3_pos3" spec="ScaleOperator"
parameter="@clockRate.c:nd3_pos3" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd3_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd3_pos3" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd3_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd3_pos3" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd3_pos3" spec="Uniform" tree="@Tree.t:nd3_pos3"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd3_pos3" spec="SubtreeSlide" tree="@Tree.t:nd3_pos3"
weight="15.0"/>
```

```
<operator id="narrow.t:nd3_pos3" spec="Exchange" tree="@Tree.t:nd3_pos3"
weight="15.0"/>
```

```
<operator id="wide.t:nd3_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd3_pos3" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd3_pos3" spec="WilsonBalding" tree="@Tree.t:nd3_pos3"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:nd3_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd3_pos3"/>
```

```
<down idref="Tree.t:nd3_pos3"/>
```

</operator>

<operator id="StrictClockRateScaler.c:cytb_pos3" spec="ScaleOperator"
parameter="@clockRate.c:cytb_pos3" weight="3.0"/>

<operator id="treeScaler.t:cytb_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:cytb_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:cytb_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:cytb_pos3" weight="3.0"/>

<operator id="UniformOperator.t:cytb_pos3" spec="Uniform" tree="@Tree.t:cytb_pos3"
weight="30.0"/>

<operator id="SubtreeSlide.t:cytb_pos3" spec="SubtreeSlide" tree="@Tree.t:cytb_pos3"
weight="15.0"/>

<operator id="narrow.t:cytb_pos3" spec="Exchange" tree="@Tree.t:cytb_pos3"
weight="15.0"/>

<operator id="wide.t:cytb_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:cytb_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:cytb_pos3" spec="WilsonBalding" tree="@Tree.t:cytb_pos3"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:cytb_pos3" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:cytb_pos3"/>

<down idref="Tree.t:cytb_pos3"/>

</operator>

<operator id="StrictClockRateScaler.c:cytb_pos1" spec="ScaleOperator"
parameter="@clockRate.c:cytb_pos1" weight="3.0"/>

```
<operator id="treeScaler.t:cytb_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:cytb_pos1" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:cytb_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:cytb_pos1" weight="3.0"/>
```

```
<operator id="UniformOperator.t:cytb_pos1" spec="Uniform" tree="@Tree.t:cytb_pos1"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:cytb_pos1" spec="SubtreeSlide" tree="@Tree.t:cytb_pos1"
weight="15.0"/>
```

```
<operator id="narrow.t:cytb_pos1" spec="Exchange" tree="@Tree.t:cytb_pos1"
weight="15.0"/>
```

```
<operator id="wide.t:cytb_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:cytb_pos1" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:cytb_pos1" spec="WilsonBalding" tree="@Tree.t:cytb_pos1"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:cytb_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:cytb_pos1"/>
```

```
<down idref="Tree.t:cytb_pos1"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:cytb_pos2" spec="ScaleOperator"
parameter="@clockRate.c:cytb_pos2" weight="3.0"/>
```

```
<operator id="treeScaler.t:cytb_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:cytb_pos2" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:cytb_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:cytb_pos2" weight="3.0"/>
```

```
<operator id="UniformOperator.t:cytb_pos2" spec="Uniform" tree="@Tree.t:cytb_pos2"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:cytb_pos2" spec="SubtreeSlide" tree="@Tree.t:cytb_pos2"
weight="15.0"/>
```

```
<operator id="narrow.t:cytb_pos2" spec="Exchange" tree="@Tree.t:cytb_pos2"
weight="15.0"/>
```

```
<operator id="wide.t:cytb_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:cytb_pos2" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:cytb_pos2" spec="WilsonBalding" tree="@Tree.t:cytb_pos2"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:cytb_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:cytb_pos2"/>
```

```
<down idref="Tree.t:cytb_pos2"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd3_pos2" spec="ScaleOperator"
parameter="@clockRate.c:nd3_pos2" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd3_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd3_pos2" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd3_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd3_pos2" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd3_pos2" spec="Uniform" tree="@Tree.t:nd3_pos2"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd3_pos2" spec="SubtreeSlide" tree="@Tree.t:nd3_pos2"
weight="15.0"/>
```

<operator id="narrow.t:nd3_pos2" spec="Exchange" tree="@Tree.t:nd3_pos2"
weight="15.0"/>

<operator id="wide.t:nd3_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd3_pos2" weight="3.0"/>

<operator id="WilsonBalding.t:nd3_pos2" spec="WilsonBalding" tree="@Tree.t:nd3_pos2"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd3_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd3_pos2"/>

<down idref="Tree.t:nd3_pos2"/>

</operator>

<operator id="StrictClockRateScaler.c:coi_pos1" spec="ScaleOperator"
parameter="@clockRate.c:coi_pos1" weight="3.0"/>

<operator id="treeScaler.t:coi_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:coi_pos1" weight="3.0"/>

<operator id="treeRootScaler.t:coi_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:coi_pos1" weight="3.0"/>

<operator id="UniformOperator.t:coi_pos1" spec="Uniform" tree="@Tree.t:coi_pos1"
weight="30.0"/>

<operator id="SubtreeSlide.t:coi_pos1" spec="SubtreeSlide" tree="@Tree.t:coi_pos1"
weight="15.0"/>

<operator id="narrow.t:coi_pos1" spec="Exchange" tree="@Tree.t:coi_pos1"
weight="15.0"/>

<operator id="wide.t:coi_pos1" spec="Exchange" isNarrow="false" tree="@Tree.t:coi_pos1"
weight="3.0"/>

<operator id="WilsonBalding.t:coi_pos1" spec="WilsonBalding" tree="@Tree.t:coi_pos1" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:coi_pos1" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:coi_pos1"/>

<down idref="Tree.t:coi_pos1"/>

</operator>

<operator id="StrictClockRateScaler.c:coiii_pos3" spec="ScaleOperator" parameter="@clockRate.c:coiii_pos3" weight="3.0"/>

<operator id="treeScaler.t:coiii_pos3" spec="ScaleOperator" scaleFactor="0.5" tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="treeRootScaler.t:coiii_pos3" spec="ScaleOperator" rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="UniformOperator.t:coiii_pos3" spec="Uniform" tree="@Tree.t:coiii_pos3" weight="30.0"/>

<operator id="SubtreeSlide.t:coiii_pos3" spec="SubtreeSlide" tree="@Tree.t:coiii_pos3" weight="15.0"/>

<operator id="narrow.t:coiii_pos3" spec="Exchange" tree="@Tree.t:coiii_pos3" weight="15.0"/>

<operator id="wide.t:coiii_pos3" spec="Exchange" isNarrow="false" tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:coiii_pos3" spec="WilsonBalding" tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:coiii_pos3" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:coiii_pos3"/>


```

    <down idref="Tree.t:coiii_pos3"/>

</operator>

<operator id="StrictClockRateScaler.c:nd1_pos2" spec="ScaleOperator"
parameter="@clockRate.c:nd1_pos2" weight="3.0"/>

<operator id="treeScaler.t:nd1_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd1_pos2" weight="3.0"/>

<operator id="treeRootScaler.t:nd1_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd1_pos2" weight="3.0"/>

<operator id="UniformOperator.t:nd1_pos2" spec="Uniform" tree="@Tree.t:nd1_pos2"
weight="30.0"/>

<operator id="SubtreeSlide.t:nd1_pos2" spec="SubtreeSlide" tree="@Tree.t:nd1_pos2"
weight="15.0"/>

<operator id="narrow.t:nd1_pos2" spec="Exchange" tree="@Tree.t:nd1_pos2"
weight="15.0"/>

<operator id="wide.t:nd1_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd1_pos2" weight="3.0"/>

<operator id="WilsonBalding.t:nd1_pos2" spec="WilsonBalding" tree="@Tree.t:nd1_pos2"
weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd1_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
    <up idref="clockRate.c:nd1_pos2"/>
    <down idref="Tree.t:nd1_pos2"/>
</operator>

<operator id="StrictClockRateScaler.c:nd4L_pos2" spec="ScaleOperator"
parameter="@clockRate.c:nd4L_pos2" weight="3.0"/>

```

```
<operator id="treeScaler.t:nd4L_pos2" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd4L_pos2" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd4L_pos2" spec="Uniform" tree="@Tree.t:nd4L_pos2"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd4L_pos2" spec="SubtreeSlide" tree="@Tree.t:nd4L_pos2"
weight="15.0"/>
```

```
<operator id="narrow.t:nd4L_pos2" spec="Exchange" tree="@Tree.t:nd4L_pos2"
weight="15.0"/>
```

```
<operator id="wide.t:nd4L_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd4L_pos2" spec="WilsonBalding"
tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:nd4L_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd4L_pos2"/>
```

```
<down idref="Tree.t:nd4L_pos2"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:atp8_pos3" spec="ScaleOperator"
parameter="@clockRate.c:atp8_pos3" weight="3.0"/>
```

```
<operator id="treeScaler.t:atp8_pos3" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:atp8_pos3" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:atp8_pos3" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:atp8_pos3" weight="3.0"/>
```

<operator id="UniformOperator.t:atp8_pos3" spec="Uniform" tree="@Tree.t:atp8_pos3" weight="30.0"/>

<operator id="SubtreeSlide.t:atp8_pos3" spec="SubtreeSlide" tree="@Tree.t:atp8_pos3" weight="15.0"/>

<operator id="narrow.t:atp8_pos3" spec="Exchange" tree="@Tree.t:atp8_pos3" weight="15.0"/>

<operator id="wide.t:atp8_pos3" spec="Exchange" isNarrow="false" tree="@Tree.t:atp8_pos3" weight="3.0"/>

<operator id="WilsonBalding.t:atp8_pos3" spec="WilsonBalding" tree="@Tree.t:atp8_pos3" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:atp8_pos3" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:atp8_pos3"/>

<down idref="Tree.t:atp8_pos3"/>

</operator>

<operator id="StrictClockRateScaler.c:nd4_pos2" spec="ScaleOperator" parameter="@clockRate.c:nd4_pos2" weight="3.0"/>

<operator id="treeScaler.t:nd4_pos2" spec="ScaleOperator" scaleFactor="0.5" tree="@Tree.t:nd4_pos2" weight="3.0"/>

<operator id="treeRootScaler.t:nd4_pos2" spec="ScaleOperator" rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd4_pos2" weight="3.0"/>

<operator id="UniformOperator.t:nd4_pos2" spec="Uniform" tree="@Tree.t:nd4_pos2" weight="30.0"/>

<operator id="SubtreeSlide.t:nd4_pos2" spec="SubtreeSlide" tree="@Tree.t:nd4_pos2" weight="15.0"/>

```
<operator id="narrow.t:nd4_pos2" spec="Exchange" tree="@Tree.t:nd4_pos2"
weight="15.0"/>
```

```
<operator id="wide.t:nd4_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4_pos2" weight="3.0"/>
```

```
<operator id="WilsonBalding.t:nd4_pos2" spec="WilsonBalding" tree="@Tree.t:nd4_pos2"
weight="3.0"/>
```

```
<operator id="strictClockUpDownOperator.c:nd4_pos2" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">
```

```
<up idref="clockRate.c:nd4_pos2"/>
```

```
<down idref="Tree.t:nd4_pos2"/>
```

```
</operator>
```

```
<operator id="StrictClockRateScaler.c:nd6_pos1" spec="ScaleOperator"
parameter="@clockRate.c:nd6_pos1" weight="3.0"/>
```

```
<operator id="treeScaler.t:nd6_pos1" spec="ScaleOperator" scaleFactor="0.5"
tree="@Tree.t:nd6_pos1" weight="3.0"/>
```

```
<operator id="treeRootScaler.t:nd6_pos1" spec="ScaleOperator" rootOnly="true"
scaleFactor="0.5" tree="@Tree.t:nd6_pos1" weight="3.0"/>
```

```
<operator id="UniformOperator.t:nd6_pos1" spec="Uniform" tree="@Tree.t:nd6_pos1"
weight="30.0"/>
```

```
<operator id="SubtreeSlide.t:nd6_pos1" spec="SubtreeSlide" tree="@Tree.t:nd6_pos1"
weight="15.0"/>
```

```
<operator id="narrow.t:nd6_pos1" spec="Exchange" tree="@Tree.t:nd6_pos1"
weight="15.0"/>
```

```
<operator id="wide.t:nd6_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd6_pos1" weight="3.0"/>
```

<operator id="WilsonBalding.t:nd6_pos1" spec="WilsonBalding" tree="@Tree.t:nd6_pos1" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd6_pos1" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

<up idref="clockRate.c:nd6_pos1"/>

<down idref="Tree.t:nd6_pos1"/>

</operator>

<operator id="StrictClockRateScaler.c:nd2_pos1" spec="ScaleOperator" parameter="@clockRate.c:nd2_pos1" weight="3.0"/>

<operator id="treeScaler.t:nd2_pos1" spec="ScaleOperator" scaleFactor="0.5" tree="@Tree.t:nd2_pos1" weight="3.0"/>

<operator id="treeRootScaler.t:nd2_pos1" spec="ScaleOperator" rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd2_pos1" weight="3.0"/>

<operator id="UniformOperator.t:nd2_pos1" spec="Uniform" tree="@Tree.t:nd2_pos1" weight="30.0"/>

<operator id="SubtreeSlide.t:nd2_pos1" spec="SubtreeSlide" tree="@Tree.t:nd2_pos1" weight="15.0"/>

<operator id="narrow.t:nd2_pos1" spec="Exchange" tree="@Tree.t:nd2_pos1" weight="15.0"/>

<operator id="wide.t:nd2_pos1" spec="Exchange" isNarrow="false" tree="@Tree.t:nd2_pos1" weight="3.0"/>

<operator id="WilsonBalding.t:nd2_pos1" spec="WilsonBalding" tree="@Tree.t:nd2_pos1" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:nd2_pos1" spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

```

    <up idref="clockRate.c:nd2_pos1"/>

    <down idref="Tree.t:nd2_pos1"/>

</operator>

<operator id="allTipDatesRandomWalker.t:atp6_pos1" spec="TipDatesRandomWalker"
tree="@Tree.t:atp6_pos1" weight="1.0" windowSize="1.0"/>

<operator id="StrictClockRateScaler.c:Fl26seq-pt8-11401-123ps4" spec="ScaleOperator"
parameter="@clockRate.c:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="treeScaler.t:Fl26seq-pt8-11401-123ps4" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="treeRootScaler.t:Fl26seq-pt8-11401-123ps4" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="UniformOperator.t:Fl26seq-pt8-11401-123ps4" spec="Uniform"
tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="30.0"/>

<operator id="SubtreeSlide.t:Fl26seq-pt8-11401-123ps4" spec="SubtreeSlide"
tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="15.0"/>

<operator id="narrow.t:Fl26seq-pt8-11401-123ps4" spec="Exchange" tree="@Tree.t:Fl26seq-
pt8-11401-123ps4" weight="15.0"/>

<operator id="wide.t:Fl26seq-pt8-11401-123ps4" spec="Exchange" isNarrow="false"
tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="WilsonBalding.t:Fl26seq-pt8-11401-123ps4" spec="WilsonBalding"
tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="strictClockUpDownOperator.c:Fl26seq-pt8-11401-123ps4"
spec="UpDownOperator" scaleFactor="0.75" weight="3.0">

    <up idref="clockRate.c:Fl26seq-pt8-11401-123ps4"/>

    <down idref="Tree.t:Fl26seq-pt8-11401-123ps4"/>

```

</operator>

<operator id="hyperScaler.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
spec="ScaleOperator" parameter="@parameter.hyperLogNormalDistributionModel-M-Fl26sq-
Par-oliv+Pleuro" scaleFactor="0.5" weight="0.1"/>

<operator id="hyperScaler.hyperLogNormalDistributionModel-S-Fl26sq-Par-oliv+Pleuro"
spec="ScaleOperator" parameter="@parameter.hyperLogNormalDistributionModel-S-Fl26sq-
Par-oliv+Pleuro" scaleFactor="0.5" weight="0.1"/>

<operator id="hyperScaler.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
spec="ScaleOperator" parameter="@parameter.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" scaleFactor="0.5"
weight="0.1"/>

<operator id="hyperScaler.hyperGamma-beta-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
spec="ScaleOperator" parameter="@parameter.hyperGamma-beta-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" scaleFactor="0.5"
weight="0.1"/>

<operator id="hyperScaler.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
spec="ScaleOperator" parameter="@parameter.hyperGamma-alpha-HyperPrior.hyperGamma-
alpha-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
scaleFactor="0.5" weight="0.1"/>

<operator id="hyperScaler.hyperGamma-beta-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
spec="ScaleOperator" parameter="@parameter.hyperGamma-beta-HyperPrior.hyperGamma-
alpha-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro"
scaleFactor="0.5" weight="0.1"/>

<operator id="hyperScaler.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-
oliv+Pleuro" spec="ScaleOperator" parameter="@parameter.hyperGamma-alpha-
HyperPrior.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" scaleFactor="0.5"
weight="0.1"/>

```
<operator id="hyperScaler.hyperGamma-beta-HyperPrior.hyperGamma-alpha-  
HyperPrior.hyperGamma-alpha-HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-  
oliv+Pleuro" spec="ScaleOperator" parameter="@parameter.hyperGamma-beta-  
HyperPrior.hyperGamma-alpha-HyperPrior.hyperGamma-alpha-  
HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro" scaleFactor="0.5"  
weight="0.1"/>
```

```
<operator id="hyperScaler.hyperGamma-alpha-Fl26sq-Par-oliv+Pleuro"  
spec="ScaleOperator" parameter="@parameter.hyperGamma-alpha-Fl26sq-Par-oliv+Pleuro"  
scaleFactor="0.5" weight="0.1"/>
```

```
<operator id="hyperScaler.hyperGamma-beta-Fl26sq-Par-oliv+Pleuro" spec="ScaleOperator"  
parameter="@parameter.hyperGamma-beta-Fl26sq-Par-oliv+Pleuro" scaleFactor="0.5"  
weight="0.1"/>
```

```
<operator id="hyperScaler.hyperGamma-alpha-CalibratedYuleBirthRatePrior.t:nd5_pos2"  
spec="ScaleOperator" parameter="@parameter.hyperGamma-alpha-  
CalibratedYuleBirthRatePrior.t:nd5_pos2" scaleFactor="0.5" weight="0.1"/>
```

```
<operator id="hyperScaler.hyperGamma-beta-CalibratedYuleBirthRatePrior.t:nd5_pos2"  
spec="ScaleOperator" parameter="@parameter.hyperGamma-beta-  
CalibratedYuleBirthRatePrior.t:nd5_pos2" scaleFactor="0.5" weight="0.1"/>
```

```
<operator id="hyperScaler.hyperGamma-alpha-UCMeanRatePrior.c:atp6_pos1"  
spec="ScaleOperator" parameter="@parameter.hyperGamma-alpha-  
UCMeanRatePrior.c:atp6_pos1" scaleFactor="0.5" weight="0.1"/>
```

```
<operator id="hyperScaler.hyperGamma-beta-UCMeanRatePrior.c:atp6_pos1"  
spec="ScaleOperator" parameter="@parameter.hyperGamma-beta-  
UCMeanRatePrior.c:atp6_pos1" scaleFactor="0.5" weight="0.1"/>
```

```
<operator id="ucedMeanScaler.c:atp6_pos1" spec="ScaleOperator"  
parameter="@ucedMean.c:atp6_pos1" scaleFactor="0.5" weight="1.0"/>
```

```
<operator id="ExpCategoriesRandomWalk.c:atp6_pos1" spec="IntRandomWalkOperator"  
parameter="@expRateCategories.c:atp6_pos1" weight="10.0" windowSize="1"/>
```


<operator id="ExpCategoriesSwapOperator.c:atp6_pos1" spec="SwapOperator"
intparameter="@expRateCategories.c:atp6_pos1" weight="10.0"/>

<operator id="ExpCategoriesUniform.c:atp6_pos1" spec="UniformOperator"
parameter="@expRateCategories.c:atp6_pos1" weight="10.0"/>

<operator id="relaxedUpDownOperatorExp.c:atp6_pos1" spec="UpDownOperator"
scaleFactor="0.75" weight="3.0">

<up idref="ucedMean.c:atp6_pos1"/>

<down idref="Tree.t:atp6_pos1"/>

</operator>

<operator id="hyperScaler.hyperLogNormalDistributionModel-M-Fl26sq-Par-
oliv+Pleuro1.prior" spec="ScaleOperator"
parameter="@parameter.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro1.prior"
scaleFactor="0.5" weight="0.1"/>

<operator id="hyperScaler.hyperLogNormalDistributionModel-S-Fl26sq-Par-
oliv+Pleuro1.prior" spec="ScaleOperator"
parameter="@parameter.hyperLogNormalDistributionModel-S-Fl26sq-Par-oliv+Pleuro1.prior"
scaleFactor="0.5" weight="0.1"/>

<operator id="hyperScaler.hyperGamma-alpha-ClockPrior.c:Fl26seq-pt8-11401-123ps4"
spec="ScaleOperator" parameter="@parameter.hyperGamma-alpha-ClockPrior.c:Fl26seq-pt8-
11401-123ps4" scaleFactor="0.5" weight="0.1"/>

<operator id="hyperScaler.hyperGamma-beta-ClockPrior.c:Fl26seq-pt8-11401-123ps4"
spec="ScaleOperator" parameter="@parameter.hyperGamma-beta-ClockPrior.c:Fl26seq-pt8-
11401-123ps4" scaleFactor="0.5" weight="0.1"/>

<operator id="CoalescentConstantTreeScaler.t:Fl26seq-pt8-11401-123ps4"
spec="ScaleOperator" scaleFactor="0.5" tree="@Tree.t:Fl26seq-pt8-11401-123ps4"
weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:Fl26seq-pt8-11401-123ps4"
spec="ScaleOperator" rootOnly="true" scaleFactor="0.5" tree="@Tree.t:Fl26seq-pt8-11401-
123ps4" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:Fl26seq-pt8-11401-123ps4"
spec="Uniform" tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:Fl26seq-pt8-11401-123ps4"
spec="SubtreeSlide" tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:Fl26seq-pt8-11401-123ps4" spec="Exchange"
tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="15.0"/>

<operator id="CoalescentConstantWide.t:Fl26seq-pt8-11401-123ps4" spec="Exchange"
isNarrow="false" tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:Fl26seq-pt8-11401-123ps4"
spec="WilsonBalding" tree="@Tree.t:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="PopSizeScaler.t:Fl26seq-pt8-11401-123ps4" spec="ScaleOperator"
parameter="@popSize.t:Fl26seq-pt8-11401-123ps4" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:atp6_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:atp6_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:atp6_pos1" spec="Uniform"
tree="@Tree.t:atp6_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:atp6_pos1" spec="SubtreeSlide"
tree="@Tree.t:atp6_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:atp6_pos1" spec="Exchange"
tree="@Tree.t:atp6_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:atp6_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:atp6_pos1" spec="WilsonBalding"
tree="@Tree.t:atp6_pos1" weight="3.0"/>

<operator id="PopSizeScaler.t:atp6_pos1" spec="ScaleOperator"
parameter="@popSize.t:atp6_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:atp6_pos2" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:atp6_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:atp6_pos2" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:atp6_pos2" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:atp6_pos2" spec="Uniform"
tree="@Tree.t:atp6_pos2" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:atp6_pos2" spec="SubtreeSlide"
tree="@Tree.t:atp6_pos2" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:atp6_pos2" spec="Exchange"
tree="@Tree.t:atp6_pos2" weight="15.0"/>

<operator id="CoalescentConstantWide.t:atp6_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp6_pos2" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:atp6_pos2" spec="WilsonBalding"
tree="@Tree.t:atp6_pos2" weight="3.0"/>

<operator id="PopSizeScaler.t:atp6_pos2" spec="ScaleOperator"
parameter="@popSize.t:atp6_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:atp6_pos3" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:atp6_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:atp6_pos3" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:atp6_pos3" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:atp6_pos3" spec="Uniform"
tree="@Tree.t:atp6_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:atp6_pos3" spec="SubtreeSlide"
tree="@Tree.t:atp6_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:atp6_pos3" spec="Exchange"
tree="@Tree.t:atp6_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:atp6_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp6_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:atp6_pos3" spec="WilsonBalding"
tree="@Tree.t:atp6_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:atp6_pos3" spec="ScaleOperator"
parameter="@popSize.t:atp6_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:atp8_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:atp8_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:atp8_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:atp8_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:atp8_pos1" spec="Uniform"
tree="@Tree.t:atp8_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:atp8_pos1" spec="SubtreeSlide"
tree="@Tree.t:atp8_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:atp8_pos1" spec="Exchange"
tree="@Tree.t:atp8_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:atp8_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp8_pos1" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:atp8_pos1" spec="WilsonBalding"
tree="@Tree.t:atp8_pos1" weight="3.0"/>

<operator id="PopSizeScaler.t:atp8_pos1" spec="ScaleOperator"
parameter="@popSize.t:atp8_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:atp8_pos2" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:atp8_pos2" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:atp8_pos2" spec="Uniform"
tree="@Tree.t:atp8_pos2" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:atp8_pos2" spec="SubtreeSlide"
tree="@Tree.t:atp8_pos2" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:atp8_pos2" spec="Exchange"
tree="@Tree.t:atp8_pos2" weight="15.0"/>

<operator id="CoalescentConstantWide.t:atp8_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:atp8_pos2" spec="WilsonBalding"
tree="@Tree.t:atp8_pos2" weight="3.0"/>

<operator id="PopSizeScaler.t:atp8_pos2" spec="ScaleOperator"
parameter="@popSize.t:atp8_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:atp8_pos3" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:atp8_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:atp8_pos3" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:atp8_pos3" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:atp8_pos3" spec="Uniform"
tree="@Tree.t:atp8_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:atp8_pos3" spec="SubtreeSlide"
tree="@Tree.t:atp8_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:atp8_pos3" spec="Exchange"
tree="@Tree.t:atp8_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:atp8_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:atp8_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:atp8_pos3" spec="WilsonBalding"
tree="@Tree.t:atp8_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:atp8_pos3" spec="ScaleOperator"
parameter="@popSize.t:atp8_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:coi_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:coi_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:coi_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coi_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:coi_pos1" spec="Uniform"
tree="@Tree.t:coi_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coi_pos1" spec="SubtreeSlide"
tree="@Tree.t:coi_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coi_pos1" spec="Exchange"
tree="@Tree.t:coi_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coi_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:coi_pos1" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:coi_pos1" spec="WilsonBalding"
tree="@Tree.t:coi_pos1" weight="3.0"/>

<operator id="PopSizeScaler.t:coi_pos1" spec="ScaleOperator"
parameter="@popSize.t:coi_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:coi_pos2" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:coi_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:coi_pos2" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coi_pos2" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:coi_pos2" spec="Uniform"
tree="@Tree.t:coi_pos2" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coi_pos2" spec="SubtreeSlide"
tree="@Tree.t:coi_pos2" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coi_pos2" spec="Exchange"
tree="@Tree.t:coi_pos2" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coi_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:coi_pos2" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:coi_pos2" spec="WilsonBalding"
tree="@Tree.t:coi_pos2" weight="3.0"/>

<operator id="PopSizeScaler.t:coi_pos2" spec="ScaleOperator"
parameter="@popSize.t:coi_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:coi_pos3" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:coi_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:coi_pos3" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coi_pos3" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:coi_pos3" spec="Uniform"
tree="@Tree.t:coi_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coi_pos3" spec="SubtreeSlide"
tree="@Tree.t:coi_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coi_pos3" spec="Exchange"
tree="@Tree.t:coi_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coi_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:coi_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:coi_pos3" spec="WilsonBalding"
tree="@Tree.t:coi_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:coi_pos3" spec="ScaleOperator"
parameter="@popSize.t:coi_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:coii_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:coii_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:coii_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coii_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:coii_pos1" spec="Uniform"
tree="@Tree.t:coii_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coii_pos1" spec="SubtreeSlide"
tree="@Tree.t:coii_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coii_pos1" spec="Exchange"
tree="@Tree.t:coii_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coii_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:coii_pos1" weight="3.0"/>


```
<operator id="CoalescentConstantWilsonBalding.t:coii_pos1" spec="WilsonBalding"  
tree="@Tree.t:coii_pos1" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:coii_pos1" spec="ScaleOperator"  
parameter="@popSize.t:coii_pos1" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:coii_pos2" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:coii_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:coii_pos2" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coii_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantUniformOperator.t:coii_pos2" spec="Uniform"  
tree="@Tree.t:coii_pos2" weight="30.0"/>
```

```
<operator id="CoalescentConstantSubtreeSlide.t:coii_pos2" spec="SubtreeSlide"  
tree="@Tree.t:coii_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantNarrow.t:coii_pos2" spec="Exchange"  
tree="@Tree.t:coii_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantWide.t:coii_pos2" spec="Exchange" isNarrow="false"  
tree="@Tree.t:coii_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantWilsonBalding.t:coii_pos2" spec="WilsonBalding"  
tree="@Tree.t:coii_pos2" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:coii_pos2" spec="ScaleOperator"  
parameter="@popSize.t:coii_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:coii_pos3" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:coii_pos3" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:coii_pos3" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coii_pos3" weight="3.0"/>
```

<operator id="CoalescentConstantUniformOperator.t:coii_pos3" spec="Uniform"
tree="@Tree.t:coii_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coii_pos3" spec="SubtreeSlide"
tree="@Tree.t:coii_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coii_pos3" spec="Exchange"
tree="@Tree.t:coii_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coii_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:coii_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:coii_pos3" spec="WilsonBalding"
tree="@Tree.t:coii_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:coii_pos3" spec="ScaleOperator"
parameter="@popSize.t:coii_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:coiii_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:coiii_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:coiii_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coiii_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:coiii_pos1" spec="Uniform"
tree="@Tree.t:coiii_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coiii_pos1" spec="SubtreeSlide"
tree="@Tree.t:coiii_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coiii_pos1" spec="Exchange"
tree="@Tree.t:coiii_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coiii_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:coiii_pos1" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:coiii_pos1" spec="WilsonBalding"
tree="@Tree.t:coiii_pos1" weight="3.0"/>

<operator id="PopSizeScaler.t:coiii_pos1" spec="ScaleOperator"
parameter="@popSize.t:coiii_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:coiii_pos2" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:coiii_pos2" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:coiii_pos2" spec="Uniform"
tree="@Tree.t:coiii_pos2" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coiii_pos2" spec="SubtreeSlide"
tree="@Tree.t:coiii_pos2" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coiii_pos2" spec="Exchange"
tree="@Tree.t:coiii_pos2" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coiii_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:coiii_pos2" spec="WilsonBalding"
tree="@Tree.t:coiii_pos2" weight="3.0"/>

<operator id="PopSizeScaler.t:coiii_pos2" spec="ScaleOperator"
parameter="@popSize.t:coiii_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:coiii_pos3" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:coiii_pos3" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:coiii_pos3" spec="Uniform"
tree="@Tree.t:coiii_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:coiii_pos3" spec="SubtreeSlide"
tree="@Tree.t:coiii_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:coiii_pos3" spec="Exchange"
tree="@Tree.t:coiii_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:coiii_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:coiii_pos3" spec="WilsonBalding"
tree="@Tree.t:coiii_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:coiii_pos3" spec="ScaleOperator"
parameter="@popSize.t:coiii_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:cytb_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:cytb_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:cytb_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:cytb_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:cytb_pos1" spec="Uniform"
tree="@Tree.t:cytb_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:cytb_pos1" spec="SubtreeSlide"
tree="@Tree.t:cytb_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:cytb_pos1" spec="Exchange"
tree="@Tree.t:cytb_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:cytb_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:cytb_pos1" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:cytb_pos1" spec="WilsonBalding"
tree="@Tree.t:cytb_pos1" weight="3.0"/>

<operator id="PopSizeScaler.t:cytb_pos1" spec="ScaleOperator"
parameter="@popSize.t:cytb_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:cytb_pos2" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:cytb_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:cytb_pos2" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:cytb_pos2" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:cytb_pos2" spec="Uniform"
tree="@Tree.t:cytb_pos2" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:cytb_pos2" spec="SubtreeSlide"
tree="@Tree.t:cytb_pos2" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:cytb_pos2" spec="Exchange"
tree="@Tree.t:cytb_pos2" weight="15.0"/>

<operator id="CoalescentConstantWide.t:cytb_pos2" spec="Exchange" isNarrow="false"
tree="@Tree.t:cytb_pos2" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:cytb_pos2" spec="WilsonBalding"
tree="@Tree.t:cytb_pos2" weight="3.0"/>

<operator id="PopSizeScaler.t:cytb_pos2" spec="ScaleOperator"
parameter="@popSize.t:cytb_pos2" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:cytb_pos3" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:cytb_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:cytb_pos3" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:cytb_pos3" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:cytb_pos3" spec="Uniform"
tree="@Tree.t:cytb_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:cytb_pos3" spec="SubtreeSlide"
tree="@Tree.t:cytb_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:cytb_pos3" spec="Exchange"
tree="@Tree.t:cytb_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:cytb_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:cytb_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:cytb_pos3" spec="WilsonBalding"
tree="@Tree.t:cytb_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:cytb_pos3" spec="ScaleOperator"
parameter="@popSize.t:cytb_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:nd1_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:nd1_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:nd1_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd1_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:nd1_pos1" spec="Uniform"
tree="@Tree.t:nd1_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd1_pos1" spec="SubtreeSlide"
tree="@Tree.t:nd1_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd1_pos1" spec="Exchange"
tree="@Tree.t:nd1_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd1_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd1_pos1" weight="3.0"/>

```
<operator id="CoalescentConstantWilsonBalding.t:nd1_pos1" spec="WilsonBalding"  
tree="@Tree.t:nd1_pos1" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:nd1_pos1" spec="ScaleOperator"  
parameter="@popSize.t:nd1_pos1" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:nd1_pos2" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd1_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:nd1_pos2" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd1_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantUniformOperator.t:nd1_pos2" spec="Uniform"  
tree="@Tree.t:nd1_pos2" weight="30.0"/>
```

```
<operator id="CoalescentConstantSubtreeSlide.t:nd1_pos2" spec="SubtreeSlide"  
tree="@Tree.t:nd1_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantNarrow.t:nd1_pos2" spec="Exchange"  
tree="@Tree.t:nd1_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantWide.t:nd1_pos2" spec="Exchange" isNarrow="false"  
tree="@Tree.t:nd1_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantWilsonBalding.t:nd1_pos2" spec="WilsonBalding"  
tree="@Tree.t:nd1_pos2" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:nd1_pos2" spec="ScaleOperator"  
parameter="@popSize.t:nd1_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:nd1_pos3" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd1_pos3" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:nd1_pos3" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd1_pos3" weight="3.0"/>
```

<operator id="CoalescentConstantUniformOperator.t:nd1_pos3" spec="Uniform"
tree="@Tree.t:nd1_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd1_pos3" spec="SubtreeSlide"
tree="@Tree.t:nd1_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd1_pos3" spec="Exchange"
tree="@Tree.t:nd1_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd1_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd1_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:nd1_pos3" spec="WilsonBalding"
tree="@Tree.t:nd1_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:nd1_pos3" spec="ScaleOperator"
parameter="@popSize.t:nd1_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:nd2_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:nd2_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:nd2_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd2_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:nd2_pos1" spec="Uniform"
tree="@Tree.t:nd2_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd2_pos1" spec="SubtreeSlide"
tree="@Tree.t:nd2_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd2_pos1" spec="Exchange"
tree="@Tree.t:nd2_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd2_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd2_pos1" weight="3.0"/>


```
<operator id="CoalescentConstantWilsonBalding.t:nd2_pos1" spec="WilsonBalding"  
tree="@Tree.t:nd2_pos1" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:nd2_pos1" spec="ScaleOperator"  
parameter="@popSize.t:nd2_pos1" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:nd2_pos2" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd2_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:nd2_pos2" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd2_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantUniformOperator.t:nd2_pos2" spec="Uniform"  
tree="@Tree.t:nd2_pos2" weight="30.0"/>
```

```
<operator id="CoalescentConstantSubtreeSlide.t:nd2_pos2" spec="SubtreeSlide"  
tree="@Tree.t:nd2_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantNarrow.t:nd2_pos2" spec="Exchange"  
tree="@Tree.t:nd2_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantWide.t:nd2_pos2" spec="Exchange" isNarrow="false"  
tree="@Tree.t:nd2_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantWilsonBalding.t:nd2_pos2" spec="WilsonBalding"  
tree="@Tree.t:nd2_pos2" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:nd2_pos2" spec="ScaleOperator"  
parameter="@popSize.t:nd2_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:nd2_pos3" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd2_pos3" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:nd2_pos3" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd2_pos3" weight="3.0"/>
```

<operator id="CoalescentConstantUniformOperator.t:nd2_pos3" spec="Uniform"
tree="@Tree.t:nd2_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd2_pos3" spec="SubtreeSlide"
tree="@Tree.t:nd2_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd2_pos3" spec="Exchange"
tree="@Tree.t:nd2_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd2_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd2_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:nd2_pos3" spec="WilsonBalding"
tree="@Tree.t:nd2_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:nd2_pos3" spec="ScaleOperator"
parameter="@popSize.t:nd2_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:nd3_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:nd3_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:nd3_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd3_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:nd3_pos1" spec="Uniform"
tree="@Tree.t:nd3_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd3_pos1" spec="SubtreeSlide"
tree="@Tree.t:nd3_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd3_pos1" spec="Exchange"
tree="@Tree.t:nd3_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd3_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd3_pos1" weight="3.0"/>

```
<operator id="CoalescentConstantWilsonBalding.t:nd3_pos1" spec="WilsonBalding"  
tree="@Tree.t:nd3_pos1" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:nd3_pos1" spec="ScaleOperator"  
parameter="@popSize.t:nd3_pos1" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:nd3_pos2" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd3_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:nd3_pos2" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd3_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantUniformOperator.t:nd3_pos2" spec="Uniform"  
tree="@Tree.t:nd3_pos2" weight="30.0"/>
```

```
<operator id="CoalescentConstantSubtreeSlide.t:nd3_pos2" spec="SubtreeSlide"  
tree="@Tree.t:nd3_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantNarrow.t:nd3_pos2" spec="Exchange"  
tree="@Tree.t:nd3_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantWide.t:nd3_pos2" spec="Exchange" isNarrow="false"  
tree="@Tree.t:nd3_pos2" weight="3.0"/>
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```
<operator id="CoalescentConstantWilsonBalding.t:nd3_pos2" spec="WilsonBalding"  
tree="@Tree.t:nd3_pos2" weight="3.0"/>
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```
<operator id="PopSizeScaler.t:nd3_pos2" spec="ScaleOperator"  
parameter="@popSize.t:nd3_pos2" weight="3.0"/>
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```
<operator id="CoalescentConstantTreeScaler.t:nd3_pos3" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd3_pos3" weight="3.0"/>
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```
<operator id="CoalescentConstantTreeRootScaler.t:nd3_pos3" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd3_pos3" weight="3.0"/>
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<operator id="CoalescentConstantUniformOperator.t:nd3_pos3" spec="Uniform"
tree="@Tree.t:nd3_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd3_pos3" spec="SubtreeSlide"
tree="@Tree.t:nd3_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd3_pos3" spec="Exchange"
tree="@Tree.t:nd3_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd3_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd3_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:nd3_pos3" spec="WilsonBalding"
tree="@Tree.t:nd3_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:nd3_pos3" spec="ScaleOperator"
parameter="@popSize.t:nd3_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:nd4L_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:nd4L_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:nd4L_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd4L_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:nd4L_pos1" spec="Uniform"
tree="@Tree.t:nd4L_pos1" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd4L_pos1" spec="SubtreeSlide"
tree="@Tree.t:nd4L_pos1" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd4L_pos1" spec="Exchange"
tree="@Tree.t:nd4L_pos1" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd4L_pos1" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4L_pos1" weight="3.0"/>

```
<operator id="CoalescentConstantWilsonBalding.t:nd4L_pos1" spec="WilsonBalding"  
tree="@Tree.t:nd4L_pos1" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:nd4L_pos1" spec="ScaleOperator"  
parameter="@popSize.t:nd4L_pos1" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeScaler.t:nd4L_pos2" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:nd4L_pos2" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantUniformOperator.t:nd4L_pos2" spec="Uniform"  
tree="@Tree.t:nd4L_pos2" weight="30.0"/>
```

```
<operator id="CoalescentConstantSubtreeSlide.t:nd4L_pos2" spec="SubtreeSlide"  
tree="@Tree.t:nd4L_pos2" weight="15.0"/>
```

```
<operator id="CoalescentConstantNarrow.t:nd4L_pos2" spec="Exchange"  
tree="@Tree.t:nd4L_pos2" weight="15.0"/>
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```
<operator id="CoalescentConstantWide.t:nd4L_pos2" spec="Exchange" isNarrow="false"  
tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="CoalescentConstantWilsonBalding.t:nd4L_pos2" spec="WilsonBalding"  
tree="@Tree.t:nd4L_pos2" weight="3.0"/>
```

```
<operator id="PopSizeScaler.t:nd4L_pos2" spec="ScaleOperator"  
parameter="@popSize.t:nd4L_pos2" weight="3.0"/>
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```
<operator id="CoalescentConstantTreeScaler.t:nd4L_pos3" spec="ScaleOperator"  
scaleFactor="0.5" tree="@Tree.t:nd4L_pos3" weight="3.0"/>
```

```
<operator id="CoalescentConstantTreeRootScaler.t:nd4L_pos3" spec="ScaleOperator"  
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd4L_pos3" weight="3.0"/>
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<operator id="CoalescentConstantUniformOperator.t:nd4L_pos3" spec="Uniform"
tree="@Tree.t:nd4L_pos3" weight="30.0"/>

<operator id="CoalescentConstantSubtreeSlide.t:nd4L_pos3" spec="SubtreeSlide"
tree="@Tree.t:nd4L_pos3" weight="15.0"/>

<operator id="CoalescentConstantNarrow.t:nd4L_pos3" spec="Exchange"
tree="@Tree.t:nd4L_pos3" weight="15.0"/>

<operator id="CoalescentConstantWide.t:nd4L_pos3" spec="Exchange" isNarrow="false"
tree="@Tree.t:nd4L_pos3" weight="3.0"/>

<operator id="CoalescentConstantWilsonBalding.t:nd4L_pos3" spec="WilsonBalding"
tree="@Tree.t:nd4L_pos3" weight="3.0"/>

<operator id="PopSizeScaler.t:nd4L_pos3" spec="ScaleOperator"
parameter="@popSize.t:nd4L_pos3" weight="3.0"/>

<operator id="CoalescentConstantTreeScaler.t:nd4_pos1" spec="ScaleOperator"
scaleFactor="0.5" tree="@Tree.t:nd4_pos1" weight="3.0"/>

<operator id="CoalescentConstantTreeRootScaler.t:nd4_pos1" spec="ScaleOperator"
rootOnly="true" scaleFactor="0.5" tree="@Tree.t:nd4_pos1" weight="3.0"/>

<operator id="CoalescentConstantUniformOperator.t:nd4_pos1" spec="Uniform"
tree="@Tree.t:nd4_pos1" weight="30.0"/>

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tree="@Tree.t:nd4_pos1" weight="15.0"/>

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tree="@Tree.t:nd4_pos2" weight="15.0"/>

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<operator id="CoalescentConstantSubtreeSlide.t:nd5_pos1" spec="SubtreeSlide"
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<operator id="CoalescentConstantNarrow.t:nd5_pos2" spec="Exchange"
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<operator id="CoalescentConstantWide.t:nd5_pos2" spec="Exchange" isNarrow="false"
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<operator id="CoalescentConstantUniformOperator.t:nd5_pos3" spec="Uniform"
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<operator id="CoalescentConstantWide.t:nd5_pos3" spec="Exchange" isNarrow="false"
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<operator id="CoalescentConstantWilsonBalding.t:nd5_pos3" spec="WilsonBalding"
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<log idref="likelihood"/>
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```
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<log idref="clockRate.c:nd4_pos3"/>
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<log idref="treeLikelihood.atp6_pos1"/>
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<log idref="treeLikelihood.atp8_pos2"/>
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<log idref="clockRate.c:atp8_pos2"/>
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<log id="TreeHeight.t:nd4L_pos3" spec="beast.evolution.tree.TreeHeightLogger"
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<log idref="treeLikelihood.nd2_pos3"/>

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<log id="TreeHeight.t:coii_pos3" spec="beast.evolution.tree.TreeHeightLogger"
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<log idref="clockRate.c:coii_pos3"/>

<log idref="treeLikelihood.nd2_pos2"/>

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<log idref="treeLikelihood.nd4L_pos1"/>

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<log idref="treeLikelihood.atp6_pos3"/>

<log id="TreeHeight.t:atp6_pos3" spec="beast.evolution.tree.TreeHeightLogger"
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<log idref="treeLikelihood.nd6_pos2"/>

<log id="TreeHeight.t:nd6_pos2" spec="beast.evolution.tree.TreeHeightLogger"
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<log idref="clockRate.c:nd6_pos2"/>

<log idref="treeLikelihood.coiii_pos1"/>

<log id="TreeHeight.t:coiii_pos1" spec="beast.evolution.tree.TreeHeightLogger"
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<log idref="clockRate.c:coiii_pos1"/>

<log idref="treeLikelihood.atp8_pos1"/>

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<log id="TreeHeight.t:nd5_pos2" spec="beast.evolution.tree.TreeHeightLogger"
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<log idref="treeLikelihood.cytb_pos2"/>
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<log idref="HyperPrior.hyperGamma-beta-UCMeanRatePrior.c:atp6_pos1"/>

<log idref="ucedMean.c:atp6_pos1"/>

<log id="rateStat.c:atp6_pos1" spec="beast.evolution.branchratemodel.RateStatistic" branchratemodel="@ExponentialRelaxedClock.c:atp6_pos1" tree="@Tree.t:atp6_pos1"/>

<log idref="parameter.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro1.prior"/>

<log idref="HyperPrior.hyperLogNormalDistributionModel-M-Fl26sq-Par-oliv+Pleuro1.prior"/>

<log idref="parameter.hyperLogNormalDistributionModel-S-Fl26sq-Par-oliv+Pleuro1.prior"/>

<log idref="HyperPrior.hyperLogNormalDistributionModel-S-Fl26sq-Par-oliv+Pleuro1.prior"/>

<log idref="parameter.hyperGamma-alpha-ClockPrior.c:Fl26seq-pt8-11401-123ps4"/>

<log idref="HyperPrior.hyperGamma-alpha-ClockPrior.c:Fl26seq-pt8-11401-123ps4"/>

<log idref="parameter.hyperGamma-beta-ClockPrior.c:Fl26seq-pt8-11401-123ps4"/>

<log idref="HyperPrior.hyperGamma-beta-ClockPrior.c:Fl26seq-pt8-11401-123ps4"/>

<log idref="popSize.t:Fl26seq-pt8-11401-123ps4"/>
<log idref="CoalescentConstant.t:Fl26seq-pt8-11401-123ps4"/>
<log idref="popSize.t:atp6_pos1"/>
<log idref="CoalescentConstant.t:atp6_pos1"/>
<log idref="popSize.t:atp6_pos2"/>
<log idref="CoalescentConstant.t:atp6_pos2"/>
<log idref="popSize.t:atp6_pos3"/>
<log idref="CoalescentConstant.t:atp6_pos3"/>
<log idref="popSize.t:atp8_pos1"/>
<log idref="CoalescentConstant.t:atp8_pos1"/>
<log idref="popSize.t:atp8_pos2"/>
<log idref="CoalescentConstant.t:atp8_pos2"/>
<log idref="popSize.t:atp8_pos3"/>
<log idref="CoalescentConstant.t:atp8_pos3"/>
<log idref="popSize.t:coi_pos1"/>
<log idref="CoalescentConstant.t:coi_pos1"/>
<log idref="popSize.t:coi_pos2"/>
<log idref="CoalescentConstant.t:coi_pos2"/>
<log idref="popSize.t:coi_pos3"/>
<log idref="CoalescentConstant.t:coi_pos3"/>
<log idref="popSize.t:coii_pos1"/>
<log idref="CoalescentConstant.t:coii_pos1"/>
<log idref="popSize.t:coii_pos2"/>
<log idref="CoalescentConstant.t:coii_pos2"/>
<log idref="popSize.t:coii_pos3"/>
<log idref="CoalescentConstant.t:coii_pos3"/>
<log idref="popSize.t:coiii_pos1"/>
<log idref="CoalescentConstant.t:coiii_pos1"/>
<log idref="popSize.t:coiii_pos2"/>
<log idref="CoalescentConstant.t:coiii_pos2"/>
<log idref="popSize.t:coiii_pos3"/>
<log idref="CoalescentConstant.t:coiii_pos3"/>

<log idref="popSize.t:cytb_pos1"/>
<log idref="CoalescentConstant.t:cytb_pos1"/>
<log idref="popSize.t:cytb_pos2"/>
<log idref="CoalescentConstant.t:cytb_pos2"/>
<log idref="popSize.t:cytb_pos3"/>
<log idref="CoalescentConstant.t:cytb_pos3"/>
<log idref="popSize.t:nd1_pos1"/>
<log idref="CoalescentConstant.t:nd1_pos1"/>
<log idref="popSize.t:nd1_pos2"/>
<log idref="CoalescentConstant.t:nd1_pos2"/>
<log idref="popSize.t:nd1_pos3"/>
<log idref="CoalescentConstant.t:nd1_pos3"/>
<log idref="popSize.t:nd2_pos1"/>
<log idref="CoalescentConstant.t:nd2_pos1"/>
<log idref="popSize.t:nd2_pos2"/>
<log idref="CoalescentConstant.t:nd2_pos2"/>
<log idref="popSize.t:nd2_pos3"/>
<log idref="CoalescentConstant.t:nd2_pos3"/>
<log idref="popSize.t:nd3_pos1"/>
<log idref="CoalescentConstant.t:nd3_pos1"/>
<log idref="popSize.t:nd3_pos2"/>
<log idref="CoalescentConstant.t:nd3_pos2"/>
<log idref="popSize.t:nd3_pos3"/>
<log idref="CoalescentConstant.t:nd3_pos3"/>
<log idref="popSize.t:nd4L_pos1"/>
<log idref="CoalescentConstant.t:nd4L_pos1"/>
<log idref="popSize.t:nd4L_pos2"/>
<log idref="CoalescentConstant.t:nd4L_pos2"/>
<log idref="popSize.t:nd4L_pos3"/>
<log idref="CoalescentConstant.t:nd4L_pos3"/>
<log idref="popSize.t:nd4_pos1"/>
<log idref="CoalescentConstant.t:nd4_pos1"/>

```

<log idref="popSize.t:nd4_pos2"/>
<log idref="CoalescentConstant.t:nd4_pos2"/>
<log idref="popSize.t:nd4_pos3"/>
<log idref="CoalescentConstant.t:nd4_pos3"/>
<log idref="popSize.t:nd5_pos1"/>
<log idref="CoalescentConstant.t:nd5_pos1"/>
<log idref="popSize.t:nd5_pos2"/>
<log idref="CoalescentConstant.t:nd5_pos2"/>
<log idref="popSize.t:nd5_pos3"/>
<log idref="CoalescentConstant.t:nd5_pos3"/>
<log idref="popSize.t:nd6_pos1"/>
<log idref="CoalescentConstant.t:nd6_pos1"/>
<log idref="popSize.t:nd6_pos2"/>
<log idref="CoalescentConstant.t:nd6_pos2"/>
<log idref="popSize.t:nd6_pos3"/>
<log idref="CoalescentConstant.t:nd6_pos3"/>
</logger>

```

```

<logger id="screenlog" spec="Logger" logEvery="1000">
  <log idref="posterior"/>
  <log id="ESS.0" spec="util.ESS" arg="@posterior"/>
  <log idref="likelihood"/>
  <log idref="prior"/>
</logger>

```

```

<logger id="treelog.t:nd4_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
  <log id="TreeWithMetaDataLogger.t:nd4_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd4_pos3"/>
</logger>

```

```

<logger id="treelog.t:atp6_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">

```

```
<log id="TreeWithMetaDataLogger.t:atp6_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger"
branchratemodel="@ExponentialRelaxedClock.c:atp6_pos1" tree="@Tree.t:atp6_pos1"/>

</logger>
```

```
<logger id="treelog.t:atp8_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:atp8_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:atp8_pos2"/>

</logger>
```

```
<logger id="treelog.t:nd4L_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd4L_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd4L_pos3"/>

</logger>
```

```
<logger id="treelog.t:coi_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coi_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coi_pos3"/>

</logger>
```

```
<logger id="treelog.t:nd2_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd2_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd2_pos3"/>

</logger>
```

```
<logger id="treelog.t:coiii_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coiii_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coiii_pos2"/>

</logger>
```

```
<logger id="treelog.t:nd6_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd6_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd6_pos3"/>

</logger>
```

```
<logger id="treelog.t:nd1_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd1_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd1_pos3"/>

</logger>
```

```
<logger id="treelog.t:coii_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coii_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coii_pos3"/>

</logger>
```

```
<logger id="treelog.t:nd2_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd2_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd2_pos2"/>

</logger>
```

```
<logger id="treelog.t:nd4L_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd4L_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd4L_pos1"/>

</logger>
```

```
<logger id="treelog.t:coi_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coi_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coi_pos2"/>

</logger>
```

```
<logger id="treelog.t:coii_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coii_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coii_pos2"/>

</logger>
```

```
<logger id="treelog.t:coii_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coii_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coii_pos1"/>

</logger>
```

```
<logger id="treelog.t:nd1_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd1_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd1_pos1"/>

</logger>
```

```
<logger id="treelog.t:nd4_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd4_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd4_pos1"/>

</logger>
```

```
<logger id="treelog.t:nd5_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd5_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd5_pos1"/>

</logger>
```

```
<logger id="treelog.t:atp6_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:atp6_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:atp6_pos2"/>

</logger>
```



```
<logger id="treelog.t:nd5_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000" mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd5_pos3" spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd5_pos3"/>
```

```
</logger>
```

```
<logger id="treelog.t:atp6_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000" mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:atp6_pos3" spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:atp6_pos3"/>
```

```
</logger>
```

```
<logger id="treelog.t:nd3_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000" mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd3_pos1" spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd3_pos1"/>
```

```
</logger>
```

```
<logger id="treelog.t:nd6_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000" mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd6_pos2" spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd6_pos2"/>
```

```
</logger>
```

```
<logger id="treelog.t:coiii_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000" mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coiii_pos1" spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coiii_pos1"/>
```

```
</logger>
```

```
<logger id="treelog.t:atp8_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000" mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:atp8_pos1" spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:atp8_pos1"/>
```

```
</logger>
```

```
<logger id="treelog.t:nd5_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd5_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd5_pos2"/>

</logger>
```

```
<logger id="treelog.t:nd3_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd3_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd3_pos3"/>

</logger>
```

```
<logger id="treelog.t:cytb_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:cytb_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:cytb_pos3"/>

</logger>
```

```
<logger id="treelog.t:cytb_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:cytb_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:cytb_pos1"/>

</logger>
```

```
<logger id="treelog.t:cytb_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:cytb_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:cytb_pos2"/>

</logger>
```

```
<logger id="treelog.t:nd3_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd3_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd3_pos2"/>

</logger>
```

```
<logger id="treelog.t:coi_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coi_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coi_pos1"/>
```

```
</logger>
```

```
<logger id="treelog.t:coiii_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:coiii_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:coiii_pos3"/>
```

```
</logger>
```

```
<logger id="treelog.t:nd1_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd1_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd1_pos2"/>
```

```
</logger>
```

```
<logger id="treelog.t:nd4L_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd4L_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd4L_pos2"/>
```

```
</logger>
```

```
<logger id="treelog.t:atp8_pos3" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:atp8_pos3"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:atp8_pos3"/>
```

```
</logger>
```

```
<logger id="treelog.t:nd4_pos2" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd4_pos2"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd4_pos2"/>
```

```
</logger>
```

```
<logger id="treelog.t:nd6_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd6_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd6_pos1"/>

</logger>
```

```
<logger id="treelog.t:nd2_pos1" spec="Logger" fileName="$(tree).trees" logEvery="1000"
mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:nd2_pos1"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:nd2_pos1"/>

</logger>
```

```
<logger id="treelog.t:Fl26seq-pt8-11401-123ps4" spec="Logger" fileName="$(tree).trees"
logEvery="1000" mode="tree">
```

```
<log id="TreeWithMetaDataLogger.t:Fl26seq-pt8-11401-123ps4"
spec="beast.evolution.tree.TreeWithMetaDataLogger" tree="@Tree.t:Fl26seq-pt8-11401-
123ps4"/>

</logger>
```

```
</run>
```

```
</beast>
```