

**Deciduous dentition and dental eruption of Hyainailouroidea (Hyaenodonta, “Creodonta,”  
Placentalia, Mammalia)**

By Matthew R. Borths and Nancy J. Stevens

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**APPENDIX 5.**

Consensus “allcompat” (majority-rule plus compatible groups) tree from Bayesian phylogenetic  
analysis

```
#NEXUS
[ID: 2644095400]
begin taxa;
  dimensions ntax=84;
  taxlabels
    Eomaia
    Maelestes_gobiensis
    Altacreodus
    Akhnatenavus_leptognathus
    Akhnatenavus_nefertiticyon
    Allopterodon_torvidus
    Anasinopa_spp_
    Apterodon_gaudryi
    Apterodon_langebadae
    Apterodon_macrognathus
    Arfia_gingerichi
    Arfia_shoshoniensis
    Arfia_opisthotoma
    Boualitomus
    Boritia_duffaudi
    Brychotherium_ephalmos
    Buhakia_moghraensis
    Cynohyaenodon_cayluxi
    Cynohyaenodon_trux
    Dissopsalis_pyroclasticus
    Eoproviverra
    Eurotherium_matthesi
    Eurotherium_theriodis
    Furodon
    Galecyon_chronius
    Galecyon_mordax
    Galecyon_morloi
    Galecyon_peregrinus
    Gazinocyon_whitiae
    Glibzegdouia
    Hemipsalodon
    Hyaeonodon_horridus
    Hyaeonodon_ErgiliynDzo
    Hyaeonodon_minor
    Hyaeonodon_exiguus
    Hyaeonodon_neimongoliensis
    Hyainailouros_sulzeri
    Indohyaenodon
    Isohyaenodon_pilgrimi
    Kerberos
    Koholia
    Kyawdawia
    Lahimia
    Leakitherium_hiwegi
    Lesmesodon
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Limnocyon_verus
Leonhardtina_gracilis
Masrasector_aegypticum
Masrasector_ligabuei
Masrasector_nananubis
Matthodon_tritens
Megistotherium
Metapterodon
Metasinopa_spp_
Mlanyama_sugu
Morlodon
Orienspterodon_dahkoensis
Oxyaenoides_bicuspidens
Oxyaenoides_lindgreni
Rukwa_Rift
Paratritemnodon
Paroxyaena_sp
Parvagula_palulae
Preregidens_langebadae
Prolimnocyon_atavus
Prolimnocyon_chowi
Propterodon_tongi
Propterodon_morrisi
Proviverra
Prototomus_minimus
Prototomus_phobos
Pterodon_africanus
Pterodon_dasyuroides
Pterodon_phiomensis
Pyrocyon_strenuus
Quasiapterodon
Quercytherium_simplicidens
Quercytherium_tenebrosum
Sinopa_grangeri
Sinopa_jilinia
Teratodon
Thinocyon
Tinerhodon
Tritemnodon_agilis
;
end;
begin trees;
    translate
        1      Eomaia,
        2      Maelestes_gobiensis,
        3      Altacreodus,
        4      Akhnatenavus_leptognathus,
        5      Akhnatenavus_nefertiticyon,
        6      Allopterodon_torvidus,
        7      Anasinopa_spp_,

```

8       Apterodon\_gaudryi,  
9       Apterodon\_langebadrae,  
10      Apterodon\_macrognathus,  
11      Arfia\_gingerichi,  
12      Arfia\_shoshoniensis,  
13      Arfia\_opisthotoma,  
14      Boualitomus,  
15      Boritia\_duffaudi,  
16      Brychotherium\_ephalmos,  
17      Buhakia\_moghraensis,  
18      Cynohyaenodon\_cayluxi,  
19      Cynohyaenodon\_trux,  
20      Dissopsalis\_pyroclasticus,  
21      Eoproviverra,  
22      Eurotherium\_matthesi,  
23      Eurotherium\_theriodis,  
24      Furodon,  
25      Galecyon\_chronius,  
26      Galecyon\_mordax,  
27      Galecyon\_morloi,  
28      Galecyon\_peregrinus,  
29      Gazinocyon\_whitiae,  
30      Glibzegdouia,  
31      Hemipsalodon,  
32      Hyaenodon\_horridus,  
33      Hyaenodon\_ErgiliynDzo,  
34      Hyaenodon\_minor,  
35      Hyaenodon\_exiguus,  
36      Hyaenodon\_neimongoliensis,  
37      Hyainailouros\_sulzeri,  
38      Indohyaenodon,  
39      Isohyaenodon\_pilgrimi,  
40      Kerberos,  
41      Koholia,  
42      Kyawdawia,  
43      Lahimia,  
44      Leakitherium\_hiwegi,  
45      Lesmesodon,  
46      Limnocyon\_verus,  
47      Leonhardtina\_gracilis,  
48      Masrasector\_aegypticum,  
49      Masrasector\_ligabuei,  
50      Masrasector\_nananubis,  
51      Matthodon\_tritens,  
52      Megistotherium,  
53      Metapterodon,  
54      Metasinopa\_spp\_,  
55      Mlanyama\_sugu,  
56      Morlodon,  
57      Orienspterodon\_dahkoensis,

```

58      Oxyaenoides_bicuspidens,
59      Oxyaenoides_lindgreni,
60      Rukwa_Rift,
61      Paratritemnodon,
62      Paroxyaena_sp,
63      Parvagula_palulae,
64      Preregidens_langebadae,
65      Prolimnocyon_atavus,
66      Prolimnocyon_chowi,
67      Propterodon_tongi,
68      Propterodon_morrisi,
69      Proviverra,
70      Prototomus_minimus,
71      Prototomus_phobos,
72      Pterodon_africanus,
73      Pterodon_dasyuroides,
74      Pterodon_phiomensis,
75      Pyrocyon_strenuus,
76      Quasiapterodon,
77      Quercytherium_simplicidens,
78      Quercytherium_tenebrosum,
79      Sinopa_grangeri,
80      Sinopa_jilinia,
81      Teratodon,
82      Thinocyon,
83      Tinerhodon,
84      Tritemnodon_agilis

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;
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2[&prob=1.00000000e+000,prob_stddev=0.00000000e+000,prob_range={1.0000
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((3[&prob=1.00000000e+000,prob_stddev=0.00000000e+000,prob_range={1.00
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1.680760e-001[&length_mean=1.90754278e-001,length_median=1.68076000e-0
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934e-001,8.16458228e-001},prob(percent)="82",prob+-sd="82+-0"]:
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((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((
4[&prob=1.00000000e+000,prob_stddev=0.000000

```

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4.388468e-002 [&length\_mean=5.68582994e-002, length\_median=4.38846800e-002, length\_95%HPD={5.95158600e-006, 1.54528300e-001}],  
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( (44 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
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[&prob=6.64848937e-001, prob\_stddev=2.92263009e-003, prob\_range={6.62782326e-001, 6.66915549e-001}, prob(percent)="66", prob+-sd="66+-0"]:  
1.071624e-001 [&length\_mean=1.26973103e-001, length\_median=1.07162400e-001, length\_95%HPD={5.26848100e-006, 3.05726900e-001}])  
[&prob=2.85019066e-001, prob\_stddev=2.13069162e-003, prob\_range={2.83512440e-001, 2.86525693e-001}, prob(percent)="29", prob+-sd="29+-0"]:  
2.186441e-001 [&length\_mean=2.41465981e-001, length\_median=2.18644100e-001, length\_95%HPD={2.22812700e-002, 4.88052300e-001}],  
(((7 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
8.729363e-002 [&length\_mean=1.02033584e-001, length\_median=8.72936300e-002, length\_95%HPD={1.20337200e-005, 2.37977600e-001}],  
24 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
3.991095e-001 [&length\_mean=4.34059150e-001, length\_median=3.99109500e-001, length\_95%HPD={1.47770800e-001, 7.94317800e-001}])  
[&prob=6.36316365e-001, prob\_stddev=1.11248500e-003, prob\_range={6.35529719e-001, 6.37103011e-001}, prob(percent)="64", prob+-sd="64+-0"]:  
9.755778e-002 [&length\_mean=1.12657683e-001, length\_median=9.75577800e-002, length\_95%HPD={1.07849700e-005, 2.56327100e-001}],  
(16 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
2.228689e-001 [&length\_mean=2.43864773e-001, length\_median=2.22868900e-001, length\_95%HPD={5.05457200e-002, 4.86665900e-001}],  
20 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
3.745639e-001 [&length\_mean=4.10092253e-001, length\_median=3.74563900e-001, length\_95%HPD={1.52982900e-001, 7.58697500e-001}])  
[&prob=5.26399296e-001, prob\_stddev=1.97984619e-003, prob\_range={5.24999333e-001, 5.27799259e-001}, prob(percent)="53", prob+-sd="53+-0"]:  
9.376678e-002 [&length\_mean=1.10987450e-001, length\_median=9.37667800e-002, length\_95%HPD={4.78697000e-006, 2.64232100e-001}])  
[&prob=5.01333298e-001, prob\_stddev=3.11118687e-003, prob\_range={4.99133356e-001, 5.03533239e-001}, prob(percent)="50", prob+-sd="50+-0"]:  
1.144846e-001 [&length\_mean=1.30854283e-001, length\_median=1.14484600e-001, length\_95%HPD={2.49757200e-005, 2.87637800e-001}],  
((30 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
1.568246e-001 [&length\_mean=1.76892221e-001, length\_median=1.56824600e-001, length\_95%HPD={1.89728000e-002, 3.77436000e-001}],  
81 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
6.549639e-002 [&length\_mean=8.35288456e-002, length\_median=6.54963900e-002, length\_95%HPD={2.01708200e-006, 2.19257200e-001}])

[&prob=9.56321165e-001,prob\_stddev=2.33810407e-003,prob\_range={9.54667876e-001,9.57974454e-001},prob(percent)="96",prob+-sd="96+-0"]:  
1.949048e-001 [&length\_mean=2.15459853e-001,length\_median=1.94904800e-001,length\_95%HPD={2.29051300e-002,4.47787900e-001}],  
( (48 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
6.083663e-002 [&length\_mean=7.82018834e-002,length\_median=6.08366300e-002,length\_95%HPD={8.81833100e-007,2.05846000e-001}],  
50 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
6.695405e-002 [&length\_mean=7.86567756e-002,length\_median=6.69540500e-002,length\_95%HPD={3.49977400e-004,1.80721000e-001}])  
[&prob=4.21135436e-001,prob\_stddev=2.03641323e-003,prob\_range={4.19695475e-001,4.22575398e-001},prob(percent)="42",prob+-sd="42+-0"]:  
5.210791e-002 [&length\_mean=6.69786612e-002,length\_median=5.21079100e-002,length\_95%HPD={1.72956200e-006,1.80214900e-001}],  
49 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
2.562891e-002 [&length\_mean=3.84062183e-002,length\_median=2.56289100e-002,length\_95%HPD={7.80578100e-007,1.18371400e-001}])  
[&prob=6.97021413e-001,prob\_stddev=6.52406459e-003,prob\_range={6.92408202e-001,7.01634623e-001},prob(percent)="70",prob+-sd="70+-1"]:  
9.725004e-002 [&length\_mean=1.11951492e-001,length\_median=9.72500400e-002,length\_95%HPD={5.56491700e-005,2.56610700e-001}])  
[&prob=6.20010133e-001,prob\_stddev=2.22497001e-003,prob\_range={6.18436842e-001,6.21583424e-001},prob(percent)="62",prob+-sd="62+-0"]:  
1.130936e-001 [&length\_mean=1.30424355e-001,length\_median=1.13093600e-001,length\_95%HPD={2.17621800e-006,2.98653100e-001}])  
[&prob=7.07794459e-001,prob\_stddev=1.09740046e-002,prob\_range={7.00034666e-001,7.15554252e-001},prob(percent)="71",prob+-sd="71+-1"]:  
1.776045e-001 [&length\_mean=1.96282671e-001,length\_median=1.77604500e-001,length\_95%HPD={9.28911900e-003,4.08069400e-001}],  
54 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.528423e-001 [&length\_mean=1.71354630e-001,length\_median=1.52842300e-001,length\_95%HPD={2.04619000e-002,3.61655500e-001}])  
[&prob=4.35148396e-001,prob\_stddev=4.99675467e-003,prob\_range={4.31615157e-001,4.38681635e-001},prob(percent)="44",prob+-sd="44+-0"]:  
1.011487e-001 [&length\_mean=1.19670850e-001,length\_median=1.01148700e-001,length\_95%HPD={2.09315700e-005,2.87468900e-001}])  
[&prob=1.80448521e-001,prob\_stddev=4.63849679e-003,prob\_range={1.77168609e-001,1.83728434e-001},prob(percent)="18",prob+-sd="18+-0"]:  
1.678302e-001 [&length\_mean=1.87300936e-001,length\_median=1.67830200e-001,length\_95%HPD={2.11626100e-003,3.90452900e-001}],  
61 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
6.825059e-002 [&length\_mean=8.49005367e-002,length\_median=6.82505900e-002,length\_95%HPD={2.10790700e-006,2.18979700e-001}])  
[&prob=1.49996000e-001,prob\_stddev=4.26138323e-003,prob\_range={1.46982747e-001,1.53009253e-001},prob(percent)="15",prob+-sd="15+-0"]:

1.166318e-001[&length\_mean=1.32201246e-001,length\_median=1.16631800e-001,length\_95%HPD={6.55521400e-005,2.88913900e-001}],  
42[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.523587e-001[&length\_mean=1.69067067e-001,length\_median=1.52358700e-001,length\_95%HPD={1.42527400e-002,3.53914600e-001}])  
[&prob=1.55369190e-001,prob\_stddev=2.28153704e-003,prob\_range={1.53755900e-001,1.56982480e-001},prob(percent)="16",prob+-sd="16+-0"]:  
1.357919e-001[&length\_mean=1.54231027e-001,length\_median=1.35791900e-001,length\_95%HPD={6.92642800e-004,3.32688300e-001}],  
84[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.935012e-001[&length\_mean=2.12138660e-001,length\_median=1.93501200e-001,length\_95%HPD={2.92568400e-005,4.46047100e-001}])  
[&prob=1.39182955e-001,prob\_stddev=8.80560163e-003,prob\_range={1.32956454e-001,1.45409456e-001},prob(percent)="14",prob+-sd="14+-1"]:  
9.939176e-002[&length\_mean=1.16009406e-001,length\_median=9.93917600e-002,length\_95%HPD={6.87147000e-005,2.74679500e-001}],  
38[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.837601e-001[&length\_mean=2.05476280e-001,length\_median=1.83760100e-001,length\_95%HPD={2.03365700e-002,4.28009300e-001}])  
[&prob=2.64766273e-001,prob\_stddev=2.15708956e-002,prob\_range={2.49513346e-001,2.80019199e-001},prob(percent)="26",prob+-sd="26+-2"]:  
1.731549e-001[&length\_mean=1.94334587e-001,length\_median=1.73154900e-001,length\_95%HPD={9.44809700e-004,4.08555500e-001}],  
60[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.103960e-001[&length\_mean=1.59884014e-001,length\_median=1.10396000e-001,length\_95%HPD={8.53497700e-006,4.77375100e-001}])  
[&prob=1.79635210e-001,prob\_stddev=1.04271899e-002,prob\_range={1.72262073e-001,1.87008346e-001},prob(percent)="18",prob+-sd="18+-1"]:  
1.728325e-001[&length\_mean=1.94071176e-001,length\_median=1.72832500e-001,length\_95%HPD={1.47523600e-003,4.06733400e-001}],  
(((14[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
7.009279e-002[&length\_mean=1.10160488e-001,length\_median=7.00927900e-002,length\_95%HPD={5.41050600e-006,3.66513800e-001}],  
43[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
2.015628e-001[&length\_mean=2.35491229e-001,length\_median=2.01562800e-001,length\_95%HPD={1.09112100e-004,5.24244200e-001}])  
[&prob=8.78589904e-001,prob\_stddev=7.99480748e-003,prob\_range={8.72936722e-001,8.84243087e-001},prob(percent)="88",prob+-sd="88+-1"]:  
3.305440e-001[&length\_mean=3.64812399e-001,length\_median=3.30544000e-001,length\_95%HPD={6.16469500e-003,7.42841500e-001}],  
64[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
3.397140e-001[&length\_mean=3.74712764e-001,length\_median=3.39714000e-001,length\_95%HPD={2.05288800e-002,7.54189400e-001}])

[&prob=2.22500733e-001,prob\_stddev=5.39272391e-003,prob\_range={2.18687502e-001,2.26313965e-001},prob(percent)="22",prob+-sd="22+-1"]:  
1.535890e-001[&length\_mean=1.86351757e-001,length\_median=1.53589000e-001,length\_95%HPD={1.71907900e-005,4.68451600e-001}],  
75[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
2.136145e-001[&length\_mean=2.33465019e-001,length\_median=2.13614500e-001,length\_95%HPD={1.42127000e-002,4.75620200e-001}])  
[&prob=7.92512200e-002,prob\_stddev=1.96099051e-003,prob\_range={7.78645903e-002,8.06378497e-002},prob(percent)="8",prob+-sd="8+-0"]:  
1.164803e-001[&length\_mean=1.38662912e-001,length\_median=1.16480300e-001,length\_95%HPD={7.37066200e-005,3.38617400e-001}])  
[&prob=5.75051332e-002,prob\_stddev=6.39207485e-003,prob\_range={5.29852537e-002,6.20250127e-002},prob(percent)="6",prob+-sd="6+-1"]:  
9.455037e-002[&length\_mean=1.18817997e-001,length\_median=9.45503700e-002,length\_95%HPD={1.42027800e-004,3.05691100e-001}],  
(((25[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.077059e-001[&length\_mean=1.21406393e-001,length\_median=1.07705900e-001,length\_95%HPD={3.37022300e-003,2.58508300e-001}],  
26[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.038956e-001[&length\_mean=1.17766411e-001,length\_median=1.03895600e-001,length\_95%HPD={1.27187700e-002,2.52612600e-001}])  
[&prob=4.84493747e-001,prob\_stddev=6.41093052e-004,prob\_range={4.84040426e-001,4.84947068e-001},prob(percent)="48",prob+-sd="48+-0"]:  
5.891220e-002[&length\_mean=7.16268606e-002,length\_median=5.89122000e-002,length\_95%HPD={1.15389400e-005,1.76070800e-001}],  
28[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
9.627670e-002[&length\_mean=1.11690823e-001,length\_median=9.62767000e-002,length\_95%HPD={1.08359600e-003,2.52796200e-001}])  
[&prob=3.18138183e-001,prob\_stddev=4.58192976e-003,prob\_range={3.14898269e-001,3.21378097e-001},prob(percent)="32",prob+-sd="32+-0"]:  
5.601314e-002[&length\_mean=7.07638468e-002,length\_median=5.60131400e-002,length\_95%HPD={6.67505800e-006,1.85989000e-001}],  
27[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
9.228377e-002[&length\_mean=1.05910968e-001,length\_median=9.22837700e-002,length\_95%HPD={2.97674800e-004,2.34957700e-001}])  
[&prob=7.88272313e-001,prob\_stddev=2.37581543e-003,prob\_range={7.86592358e-001,7.89952268e-001},prob(percent)="79",prob+-sd="79+-0"]:  
1.576497e-001[&length\_mean=1.76255346e-001,length\_median=1.57649700e-001,length\_95%HPD={2.59437100e-003,3.69761800e-001}],  
29[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
2.826428e-001[&length\_mean=3.07652198e-001,length\_median=2.82642800e-001,length\_95%HPD={5.10141200e-002,5.93760700e-001}])  
[&prob=2.56126503e-001,prob\_stddev=2.18725865e-003,prob\_range={2.54579

878e-001,2.57673129e-001},prob(percent)="26",prob+-sd="26+-0"]:  
9.996851e-002 [&length\_mean=1.23203773e-001,length\_median=9.99685100e-0  
02,length\_95%HPD={7.72681400e-006,3.17380900e-001}])  
[&prob=1.29796539e-001,prob\_stddev=1.02763445e-002,prob\_range={1.22530  
066e-001,1.37063012e-001},prob(percent)="13",prob+-sd="13+-1"]:  
1.331345e-001 [&length\_mean=1.51951552e-001,length\_median=1.33134500e-0  
01,length\_95%HPD={1.68712300e-005,3.36255200e-001}],  
(((46 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.  
00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
6.018457e-002 [&length\_mean=6.93644884e-002,length\_median=6.01845700e-0  
02,length\_95%HPD={1.87234200e-005,1.57232500e-001}],  
(65 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00  
000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
4.643280e-002 [&length\_mean=5.48014198e-002,length\_median=4.64328000e-0  
02,length\_95%HPD={8.71715300e-006,1.29521300e-001}],  
66 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
00000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
3.424103e-002 [&length\_mean=4.68730055e-002,length\_median=3.42410300e-0  
02,length\_95%HPD={4.79742100e-007,1.33700100e-001}])  
[&prob=9.02055945e-001,prob\_stddev=2.82835170e-003,prob\_range={9.00055  
999e-001,9.04055892e-001},prob(percent)="90",prob+-sd="90+-0"]:  
1.241574e-001 [&length\_mean=1.36567563e-001,length\_median=1.24157400e-0  
01,length\_95%HPD={1.02952400e-002,2.78232300e-001}])  
[&prob=7.12954321e-001,prob\_stddev=3.18660958e-003,prob\_range={7.10701  
048e-001,7.15207594e-001},prob(percent)="71",prob+-sd="71+-0"]:  
8.116047e-002 [&length\_mean=9.16667064e-002,length\_median=8.11604700e-0  
02,length\_95%HPD={4.95392300e-006,1.96699500e-001}],  
82 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
00000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
6.361566e-002 [&length\_mean=7.46771435e-002,length\_median=6.36156600e-0  
02,length\_95%HPD={8.85916500e-006,1.73380100e-001}])  
[&prob=9.72360737e-001,prob\_stddev=1.41417585e-003,prob\_range={9.71360  
764e-001,9.73360710e-001},prob(percent)="97",prob+-sd="97+-0"]:  
1.953231e-001 [&length\_mean=2.14715037e-001,length\_median=1.95323100e-0  
01,length\_95%HPD={3.70192800e-002,4.27270400e-001}],  
(70 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00  
000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
6.835188e-002 [&length\_mean=8.42189842e-002,length\_median=6.83518800e-0  
02,length\_95%HPD={1.83716100e-006,2.12886200e-001}],  
(71 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00  
000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
2.242921e-001 [&length\_mean=2.43572604e-001,length\_median=2.24292100e-0  
01,length\_95%HPD={5.32717800e-002,4.76521900e-001}],  
(79 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00  
000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.584703e-001 [&length\_mean=1.74889371e-001,length\_median=1.58470300e-0  
01,length\_95%HPD={2.88475400e-002,3.59327600e-001}],  
80 [&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
00000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
7.033220e-002 [&length\_mean=8.54192372e-002,length\_median=7.03322000e-0

02, length\_95%HPD={1.08802100e-005,2.06128300e-001}})  
[&prob=8.27564598e-001,prob\_stddev=2.05526890e-003,prob\_range={8.26111  
304e-001,8.29017893e-001},prob(percent)="83",prob+-sd="83+-0"]:  
1.195170e-001[&length\_mean=1.36557349e-001,length\_median=1.19517000e-0  
01,length\_95%HPD={1.22310700e-005,3.06104900e-001}})  
[&prob=6.03157249e-001,prob\_stddev=4.94018764e-003,prob\_range={5.99664  
009e-001,6.06650489e-001},prob(percent)="60",prob+-sd="60+-0"]:  
1.120846e-001[&length\_mean=1.27382106e-001,length\_median=1.12084600e-0  
01,length\_95%HPD={2.72335400e-005,2.81449500e-001}})  
[&prob=5.38412309e-001,prob\_stddev=1.13134068e-004,prob\_range={5.38332  
311e-001,5.38492307e-001},prob(percent)="54",prob+-sd="54+-0"]:  
1.204272e-001[&length\_mean=1.38214288e-001,length\_median=1.20427200e-0  
01,length\_95%HPD={2.29164000e-005,3.15295200e-001}})  
[&prob=2.10741047e-001,prob\_stddev=4.52536272e-003,prob\_range={2.07541  
132e-001,2.13940962e-001},prob(percent)="21",prob+-sd="21+-0"]:  
9.688654e-002[&length\_mean=1.10586397e-001,length\_median=9.68865400e-0  
02,length\_95%HPD={2.24253000e-005,2.50613200e-001}})  
[&prob=1.02423935e-001,prob\_stddev=9.39012765e-003,prob\_range={9.57841  
124e-002,1.09063758e-001},prob(percent)="10",prob+-sd="10+-1"]:  
1.342543e-001[&length\_mean=1.50730634e-001,length\_median=1.34254300e-0  
01,length\_95%HPD={1.64373800e-005,3.24828200e-001}],  
( (11[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.0  
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1.218445e-001[&length\_mean=1.33575799e-001,length\_median=1.21844500e-0  
01,length\_95%HPD={4.18175100e-003,2.69874500e-001}],  
12[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
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2.440186e-002[&length\_mean=3.15395876e-002,length\_median=2.44018600e-0  
02,length\_95%HPD={1.28808900e-006,8.40822600e-002}})  
[&prob=8.05271859e-001,prob\_stddev=2.77178467e-003,prob\_range={8.03311  
912e-001,8.07231807e-001},prob(percent)="81",prob+-sd="81+-0"]:  
6.794746e-002[&length\_mean=7.70901296e-002,length\_median=6.79474600e-0  
02,length\_95%HPD={4.44495400e-003,1.66774800e-001}],  
13[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
00000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
3.107966e-002[&length\_mean=4.22539202e-002,length\_median=3.10796600e-0  
02,length\_95%HPD={6.86674000e-007,1.18613600e-001}})  
[&prob=9.89493614e-001,prob\_stddev=1.50845424e-004,prob\_range={9.89386  
950e-001,9.89600277e-001},prob(percent)="99",prob+-sd="99+-0"]:  
3.041930e-001[&length\_mean=3.33889995e-001,length\_median=3.04193000e-0  
01,length\_95%HPD={8.94174100e-002,6.46710600e-001}})  
[&prob=7.16380897e-002,prob\_stddev=3.11118687e-003,prob\_range={6.94381  
483e-002,7.38380310e-002},prob(percent)="7",prob+-sd="7+-0"]:  
1.132495e-001[&length\_mean=1.32242195e-001,length\_median=1.13249500e-0  
01,length\_95%HPD={6.93638300e-005,3.07343100e-001}],  
(6[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
00000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
1.046607e-001[&length\_mean=1.18408011e-001,length\_median=1.04660700e-0  
01,length\_95%HPD={7.37137500e-003,2.54998400e-001}],  
( (15[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.

00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0":  
2.389558e-001[&length\_mean=2.63644059e-001,length\_median=2.38955800e-0  
01,length\_95%HPD={3.13459000e-002,5.33944100e-001}],  
(18[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00  
000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0":  
1.017620e-001[&length\_mean=1.14861260e-001,length\_median=1.01762000e-0  
01,length\_95%HPD={3.41794100e-005,2.49853000e-001}],  
19[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
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1.420133e-001[&length\_mean=1.57188321e-001,length\_median=1.42013300e-0  
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508e-001,4.68334178e-001},prob(percent)="46",prob+-sd="46+-1":  
1.218848e-001[&length\_mean=1.37890755e-001,length\_median=1.21884800e-0  
01,length\_95%HPD={2.58085900e-007,3.16117900e-001}])  
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510e-001,5.68091518e-001},prob(percent)="56",prob+-sd="56+-1":  
1.378639e-001[&length\_mean=1.52449391e-001,length\_median=1.37863900e-0  
01,length\_95%HPD={9.30732200e-004,3.17213500e-001}],  
((22[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.  
00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0":  
2.258930e-002[&length\_mean=2.99807183e-002,length\_median=2.25893000e-0  
02,length\_95%HPD={2.73312500e-007,8.24256100e-002}],  
23[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
00000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0":  
9.581009e-002[&length\_mean=1.05625145e-001,length\_median=9.58100900e-0  
02,length\_95%HPD={2.18440900e-002,2.11040200e-001}])  
[&prob=9.30348524e-001,prob\_stddev=4.26138323e-003,prob\_range={9.27335  
271e-001,9.33361777e-001},prob(percent)="93",prob+-sd="93+-0":  
1.679081e-001[&length\_mean=1.82595875e-001,length\_median=1.67908100e-0  
01,length\_95%HPD={1.19179900e-005,3.71423000e-001}],  
(((((((32[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_rang  
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sd="100+-0":  
6.847394e-002[&length\_mean=7.61338357e-002,length\_median=6.84739400e-0  
02,length\_95%HPD={5.17051000e-003,1.60903000e-001}],  
34[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
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5.445855e-002[&length\_mean=6.15725656e-002,length\_median=5.44585500e-0  
02,length\_95%HPD={3.95325600e-004,1.32528900e-001}])  
[&prob=2.76739287e-001,prob\_stddev=1.88556780e-003,prob\_range={2.75405  
989e-001,2.78072585e-001},prob(percent)="28",prob+-sd="28+-0":  
2.627001e-002[&length\_mean=3.40422542e-002,length\_median=2.62700100e-0  
02,length\_95%HPD={8.91203500e-007,9.12625000e-002}],  
35[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.000  
00000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0":  
7.636950e-002[&length\_mean=8.57626145e-002,length\_median=7.63695000e-0  
02,length\_95%HPD={8.96861000e-003,1.84244500e-001}])  
[&prob=4.23108717e-001,prob\_stddev=7.54227121e-004,prob\_range={4.22575  
398e-001,4.23642036e-001},prob(percent)="42",prob+-sd="42+-0"]:

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33 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
5.715132e-002 [&length\_mean=6.52759592e-002, length\_median=5.71513200e-002, length\_95%HPD={5.04602100e-006, 1.48464100e-001}])  
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5.209234e-002 [&length\_mean=6.48893172e-002, length\_median=5.20923400e-002, length\_95%HPD={3.48540200e-006, 1.66264700e-001}],  
36 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
8.218474e-002 [&length\_mean=9.36428041e-002, length\_median=8.21847400e-002, length\_95%HPD={1.11271900e-005, 2.04295600e-001}])  
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2.644066e-001 [&length\_mean=2.89836586e-001, length\_median=2.64406600e-001, length\_95%HPD={6.52558900e-002, 5.80716900e-001}],  
67 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
7.649053e-002 [&length\_mean=9.27757179e-002, length\_median=7.64905300e-002, length\_95%HPD={3.30829200e-008, 2.27126100e-001}])  
[&prob=6.48276046e-001, prob\_stddev=1.24447475e-003, prob\_range={6.47396069e-001, 6.49156023e-001}, prob(percent)="65", prob+-sd="65+-0"]:  
1.236490e-001 [&length\_mean=1.42961934e-001, length\_median=1.23649000e-001, length\_95%HPD={4.07865000e-006, 3.27515000e-001}],  
68 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
1.247231e-001 [&length\_mean=1.42108334e-001, length\_median=1.24723100e-001, length\_95%HPD={3.41476300e-006, 3.20340500e-001}])  
[&prob=7.96498760e-001, prob\_stddev=4.20481620e-003, prob\_range={7.93525506e-001, 7.99472014e-001}, prob(percent)="80", prob+-sd="80+-0"]:  
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(58 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
6.108146e-002 [&length\_mean=7.75133288e-002, length\_median=6.10814600e-002, length\_95%HPD={1.31610400e-007, 2.04285000e-001}],  
59 [&prob=1.00000000e+000, prob\_stddev=0.00000000e+000, prob\_range={1.00000000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:  
1.551889e-001 [&length\_mean=1.71575069e-001, length\_median=1.55188900e-001, length\_95%HPD={7.97948000e-003, 3.51636700e-001}])  
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2.814963e-001 [&length\_mean=3.10861227e-001, length\_median=2.81496300e-001, length\_95%HPD={3.48712700e-004, 6.47391400e-001}],



51[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
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3.415160e-001[&length\_mean=3.75638105e-001,length\_median=3.41516000e-001,length\_95%HPD={5.75464600e-002,7.70525500e-001}])  
[&prob=3.98602704e-001,prob\_stddev=3.04330643e-002,prob\_range={3.77083278e-001,4.20122130e-001},prob(percent)="40",prob+-sd="40+-3"]:  
1.375535e-001[&length\_mean=1.56755349e-001,length\_median=1.37553500e-001,length\_95%HPD={1.22837500e-005,3.43517200e-001}],  
47[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
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1.117052e-001[&length\_mean=1.26783811e-001,length\_median=1.11705200e-001,length\_95%HPD={1.56598900e-006,2.76979700e-001}])  
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(77[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
3.835074e-002[&length\_mean=5.13877410e-002,length\_median=3.83507400e-002,length\_95%HPD={1.06660500e-006,1.44100400e-001}],  
78[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:  
2.112158e-001[&length\_mean=2.30034307e-001,length\_median=2.11215800e-001,length\_95%HPD={6.51117800e-002,4.40028500e-001}])  
[&prob=9.70294125e-001,prob\_stddev=1.73472238e-003,prob\_range={9.69067492e-001,9.71520759e-001},prob(percent)="97",prob+-sd="97+-0"]:  
3.077414e-001[&length\_mean=3.31842216e-001,length\_median=3.07741400e-001,length\_95%HPD={9.15531800e-002,6.48969500e-001}])  
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9.399890e-002[&length\_mean=1.07220179e-001,length\_median=9.39989000e-002,length\_95%HPD={1.71696100e-004,2.40513600e-001}])  
[&prob=1.32156476e-001,prob\_stddev=1.67061307e-002,prob\_range={1.20343458e-001,1.43969494e-001},prob(percent)="13",prob+-sd="13+-2"]:  
1.045780e-001[&length\_mean=1.16667461e-001,length\_median=1.04578000e-001,length\_95%HPD={6.93995900e-005,2.54328100e-001}])  
[&prob=1.23863364e-001,prob\_stddev=1.09362932e-003,prob\_range={1.23090051e-001,1.24636676e-001},prob(percent)="12",prob+-sd="12+-0"]:  
1.088298e-001[&length\_mean=1.24863519e-001,length\_median=1.08829800e-001,length\_95%HPD={5.41017100e-005,2.85526700e-001}],  
69[&prob=1.00000000e+000,prob\_stddev=0.00000000e+000,prob\_range={1.00000000e+000,1.00000000e+000},prob(percent)="100",prob+-sd="100+-0"]:

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1.318863e-001 [&length_mean=1.49073609e-001, length_median=1.31886300e-0
01, length_95%HPD={1.49684600e-002, 3.16663600e-001}])
[&prob=1.94101491e-001, prob_stddev=2.67750628e-003, prob_range={1.92208
208e-001, 1.95994773e-001}, prob(percent)="19", prob+-sd="19+-0"]:
1.262952e-001 [&length_mean=1.41396181e-001, length_median=1.26295200e-0
01, length_95%HPD={9.42120500e-005, 3.04082700e-001}],
63 [&prob=1.00000000e+000, prob_stddev=0.00000000e+000, prob_range={1.000
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1.560616e-001 [&length_mean=1.79138560e-001, length_median=1.56061600e-0
01, length_95%HPD={6.65747100e-006, 4.02707300e-001}])
[&prob=3.99842671e-001, prob_stddev=8.01366316e-003, prob_range={3.94176
155e-001, 4.05509186e-001}, prob(percent)="40", prob+-sd="40+-1"]:
1.110892e-001 [&length_mean=1.27329147e-001, length_median=1.11089200e-0
01, length_95%HPD={5.08095300e-005, 2.88279100e-001}],
45 [&prob=1.00000000e+000, prob_stddev=0.00000000e+000, prob_range={1.000
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5.822260e-002 [&length_mean=7.26650161e-002, length_median=5.82226000e-0
02, length_95%HPD={1.20229400e-006, 1.87439300e-001}])
[&prob=4.46828085e-001, prob_stddev=6.01496129e-003, prob_range={4.42574
865e-001, 4.51081304e-001}, prob(percent)="45", prob+-sd="45+-1"]:
9.391742e-002 [&length_mean=1.12116506e-001, length_median=9.39174200e-0
02, length_95%HPD={1.58161400e-006, 2.72646900e-001}],
56 [&prob=1.00000000e+000, prob_stddev=0.00000000e+000, prob_range={1.000
00000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:
1.166888e-001 [&length_mean=1.33320183e-001, length_median=1.16688800e-0
01, length_95%HPD={1.58975800e-003, 2.91752800e-001}])
[&prob=7.78712568e-001, prob_stddev=2.96034145e-003, prob_range={7.76619
290e-001, 7.80805845e-001}, prob(percent)="78", prob+-sd="78+-0"]:
1.173739e-001 [&length_mean=1.38819779e-001, length_median=1.17373900e-0
01, length_95%HPD={1.10453400e-005, 3.29944900e-001}],
21 [&prob=1.00000000e+000, prob_stddev=0.00000000e+000, prob_range={1.000
00000e+000, 1.00000000e+000}, prob(percent)="100", prob+-sd="100+-0"]:
1.392295e-001 [&length_mean=1.61376794e-001, length_median=1.39229500e-0
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1.975556e-001 [&length_mean=2.18749491e-001, length_median=1.97555600e-0
01, length_95%HPD={2.62622600e-002, 4.49072500e-001}])
[&prob=8.44297485e-001, prob_stddev=4.90247628e-004, prob_range={8.43950
828e-001, 8.44644143e-001}, prob(percent)="84", prob+-sd="84+-0"]:
1.020238e-001 [&length_mean=1.16708454e-001, length_median=1.02023800e-0
01, length_95%HPD={4.06130300e-006, 2.61893300e-001}]);
end;

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