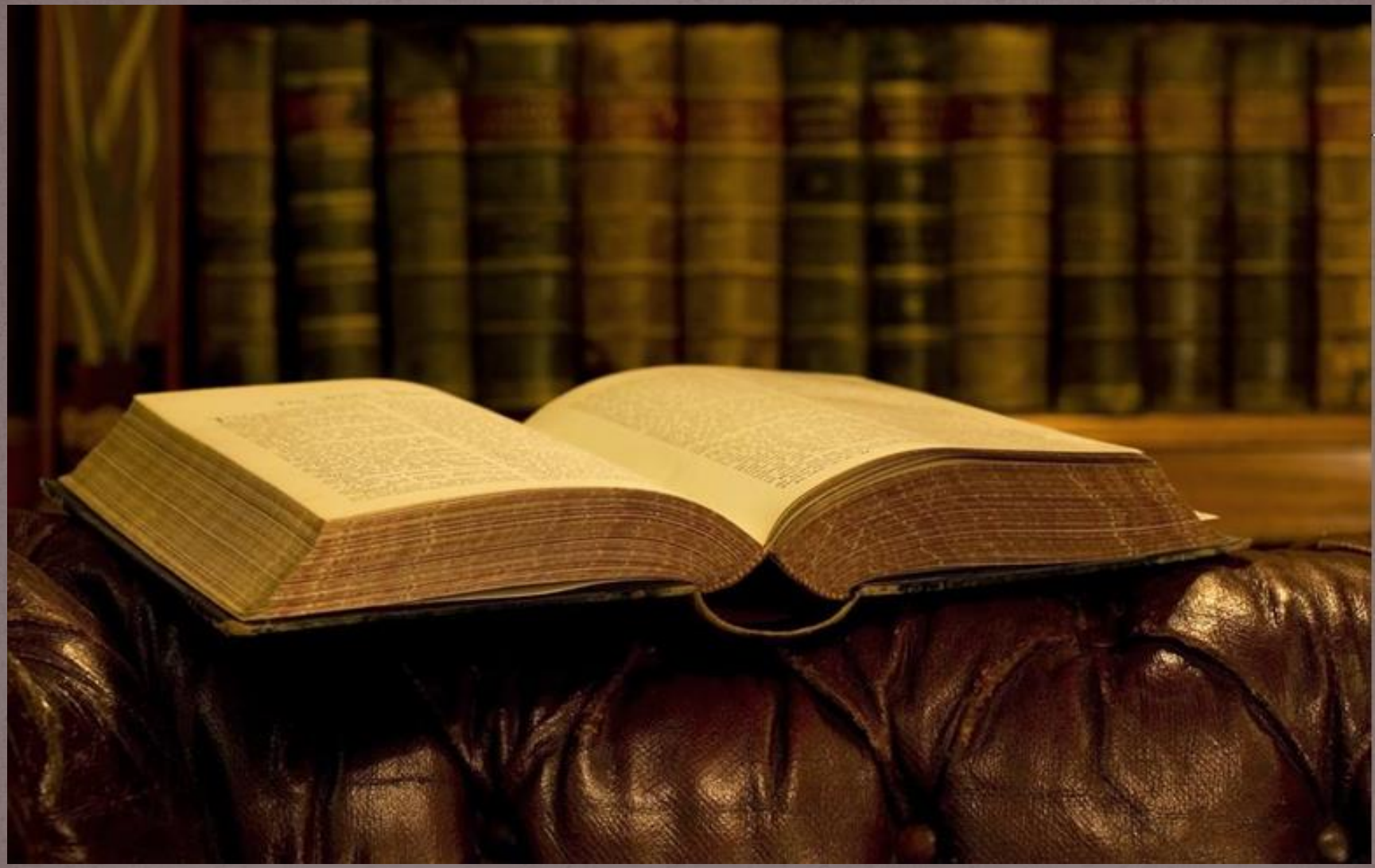
Presenter： Yingyi Yang

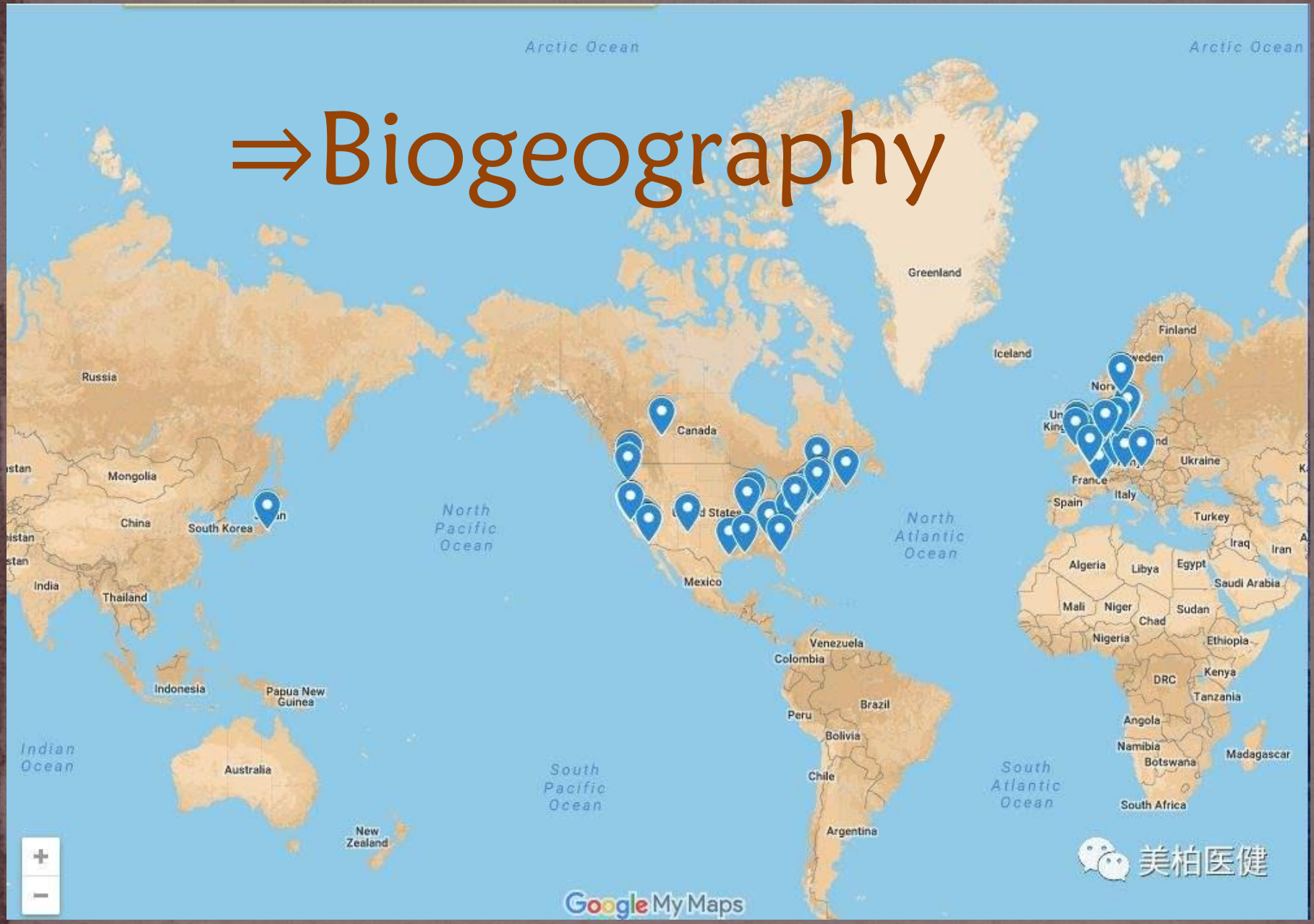


- characteristics of individuals

⇓

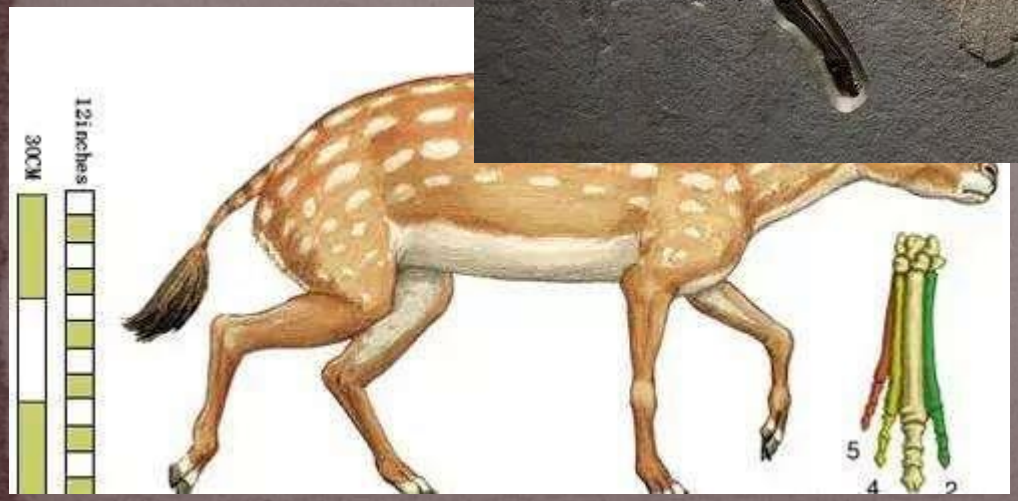
- common ancestors
  (millions of years ago)

⇒Biogeography

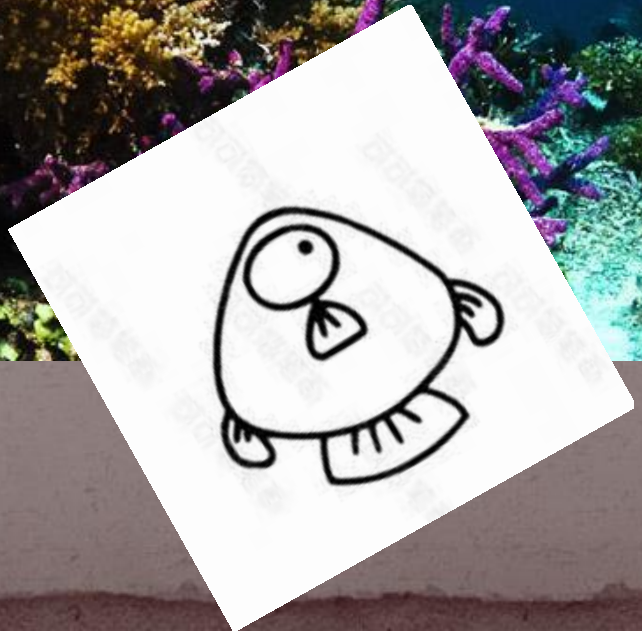


acotherium

马



⇒Character mapping



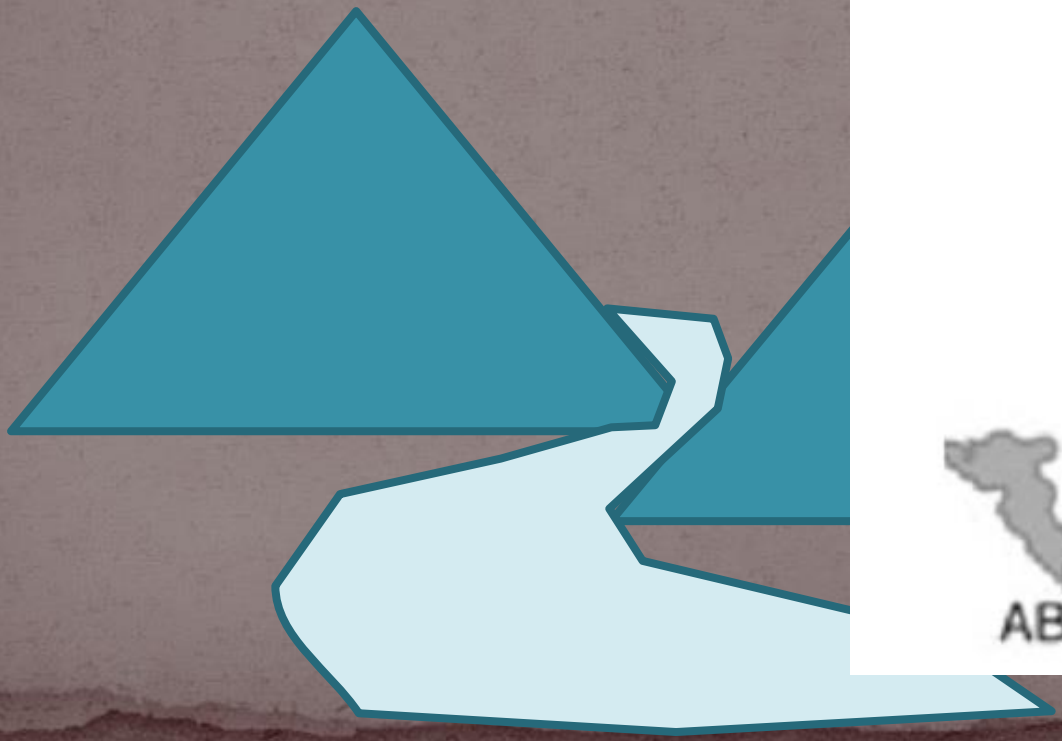
Two model:

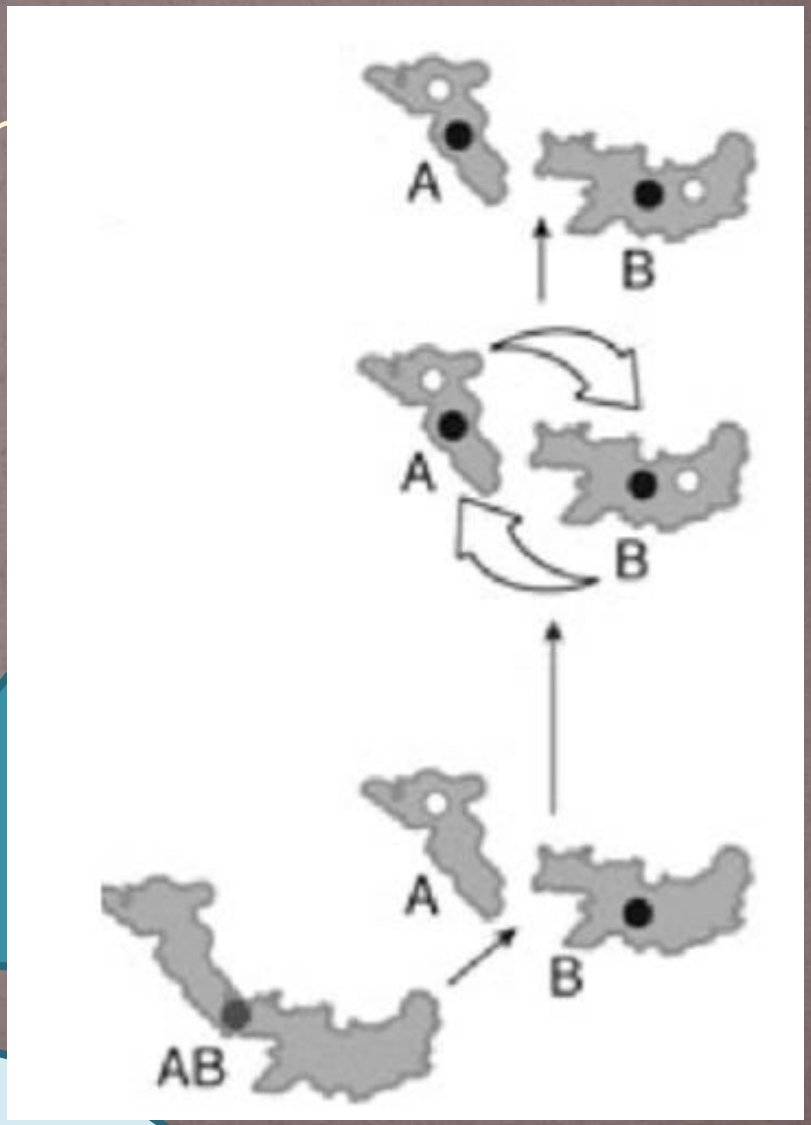
- DIVA
- DEC

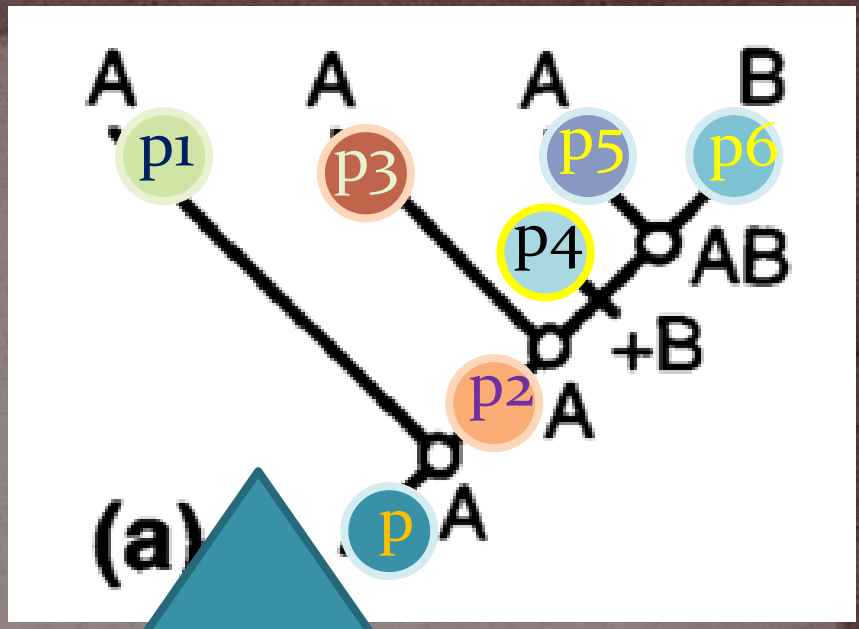
- ——Dispersal-Vicar

  扩散地理隔离分

- Vicariance







p

p1

A

p2

p3

p5

p4

B

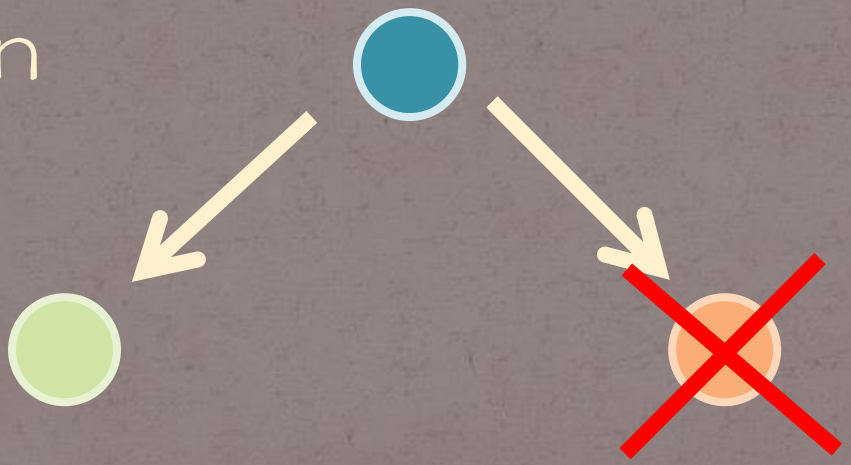
p4

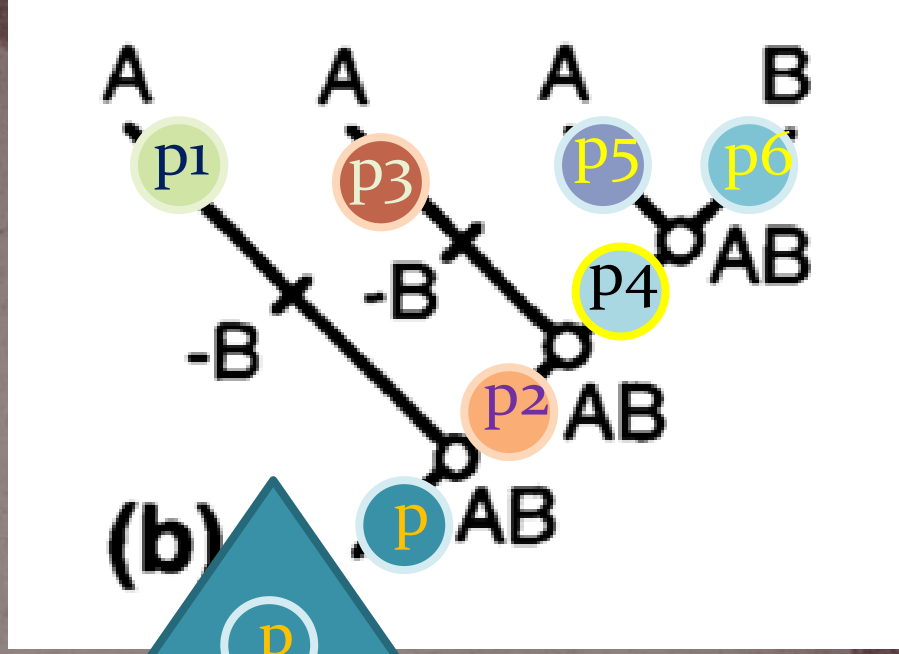
p6

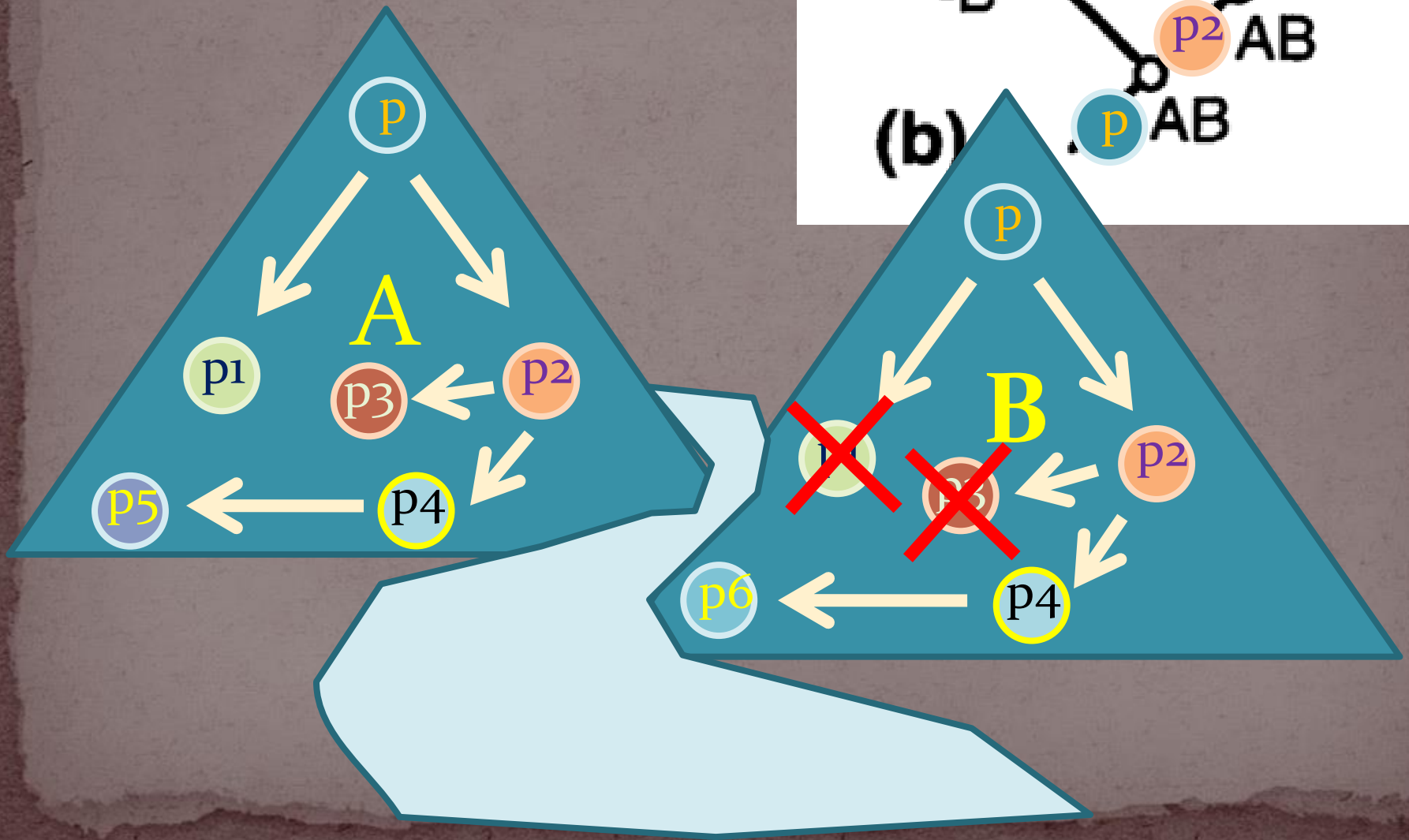
- ——The dispersal-extinction-cladogenesis model

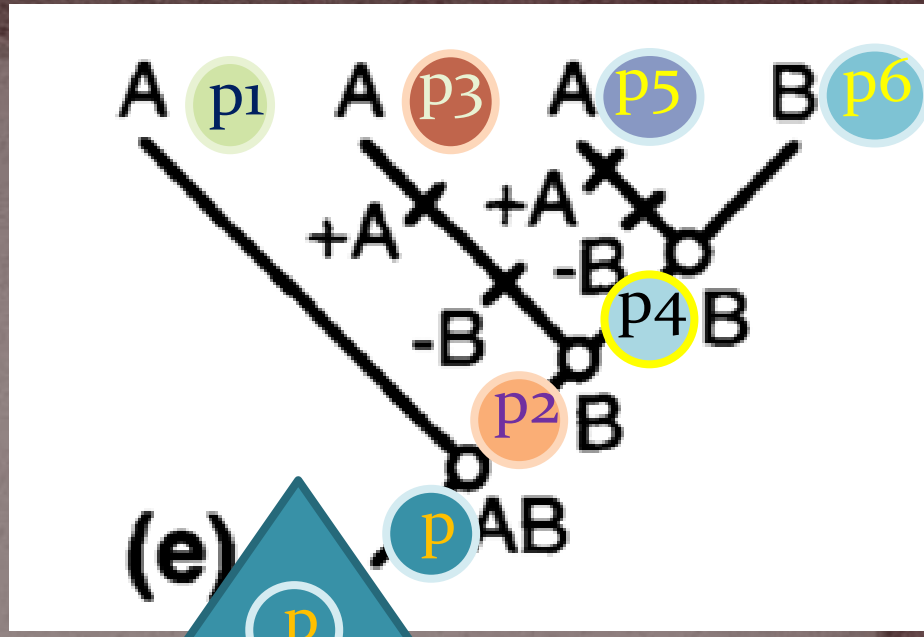
  传播灭绝分枝进化模型

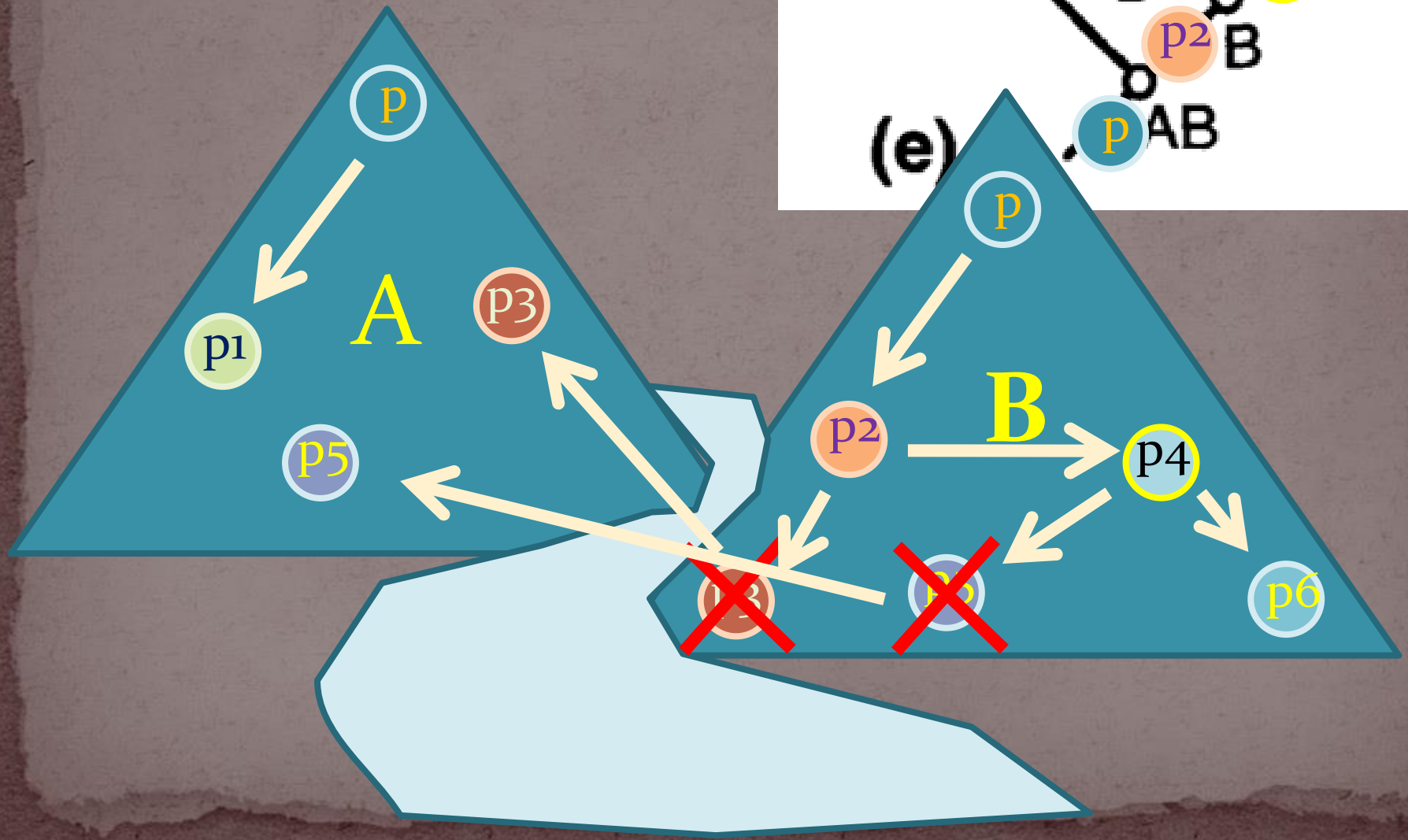
- extinction

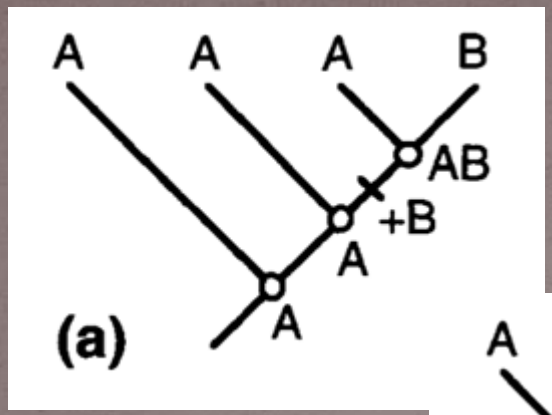


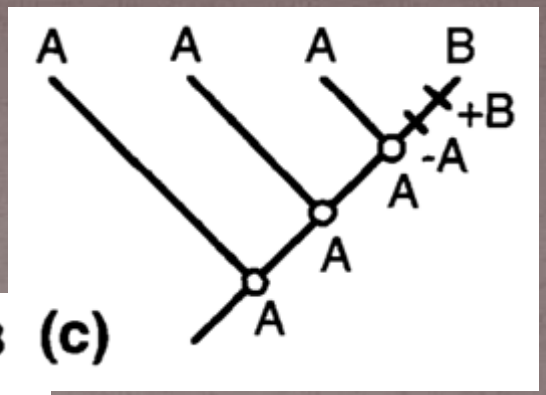

A
A
A
B
p1
p3
p5
p6
-B
-B
p4
AB
p2
AB
p
AB
(b)

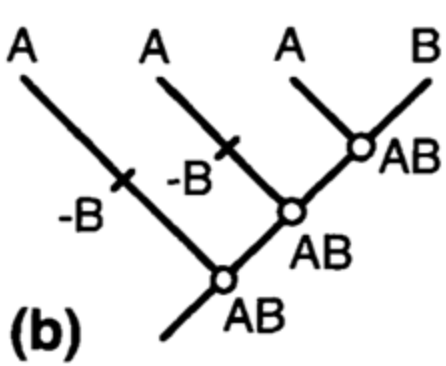

p
A
p1
p3
p2
p5
p4
p
B
p2
p6
p4

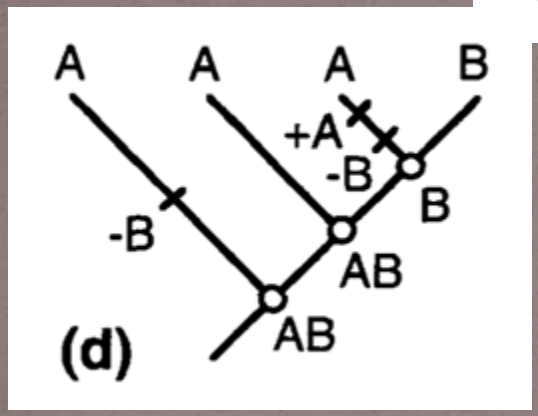

A
p1
A
p3
A
p5
B
p6
+A
+A
-B
p4
B
-B
p2
B
p
AB
(e)

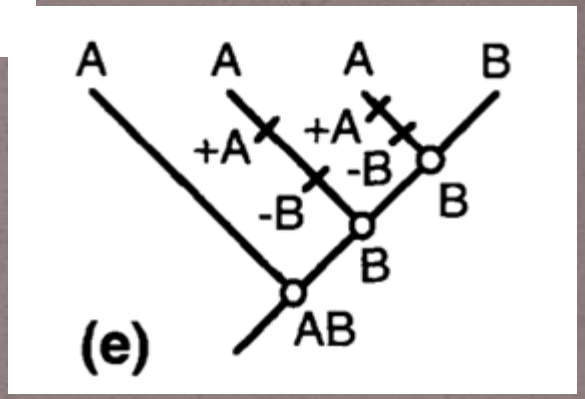

p
A
p3
p1
p5
p
B
p2
p4
p6


A
A
A
B
AB
+B
A
A
(a)


A
A
A
B
+B
-A
A
A
(c)

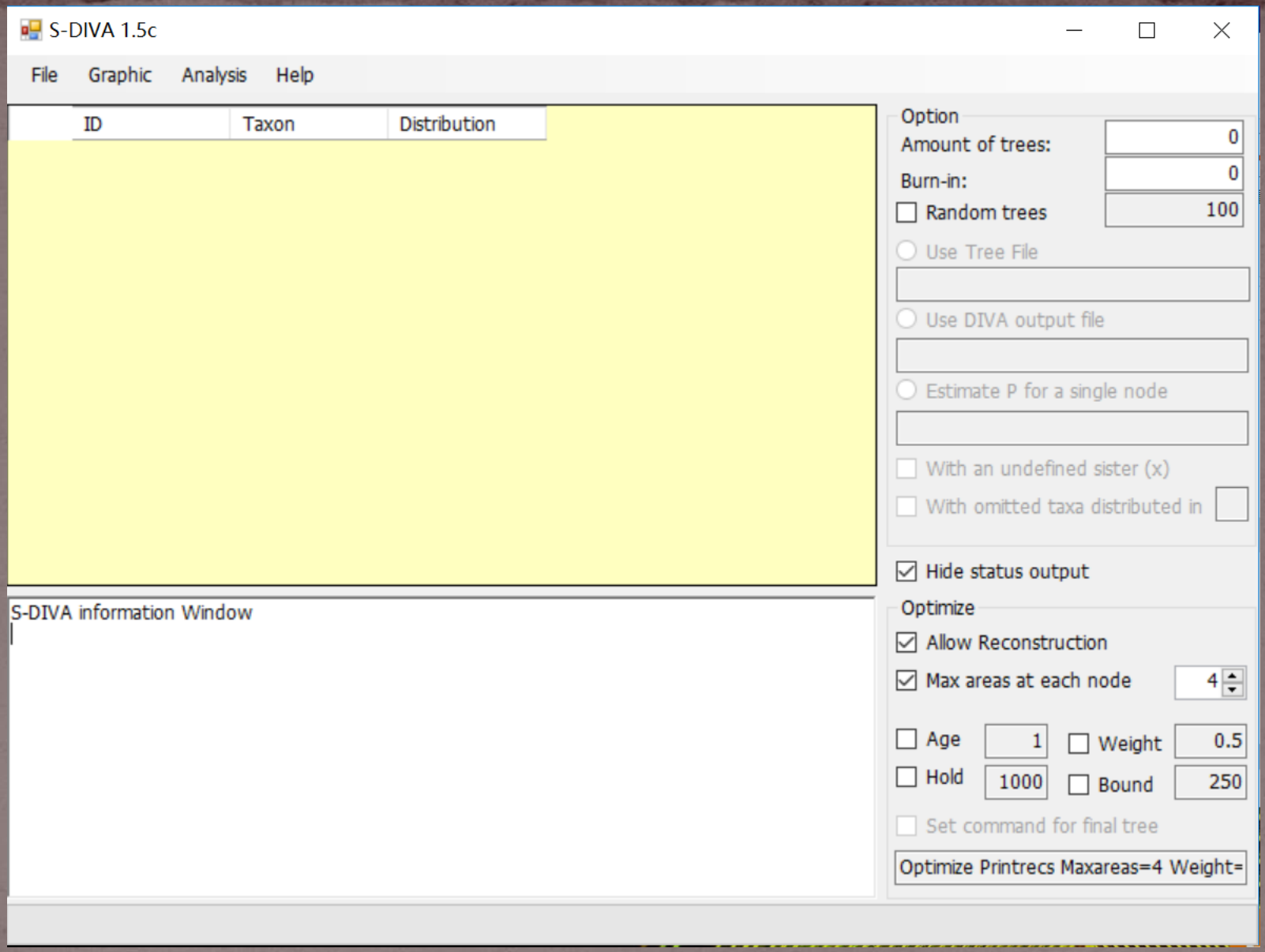

A
A
A
B
AB
-B
-B
AB
AB
(b)


A
A
A
B
+A
-B
B
-B
AB
AB
(d)

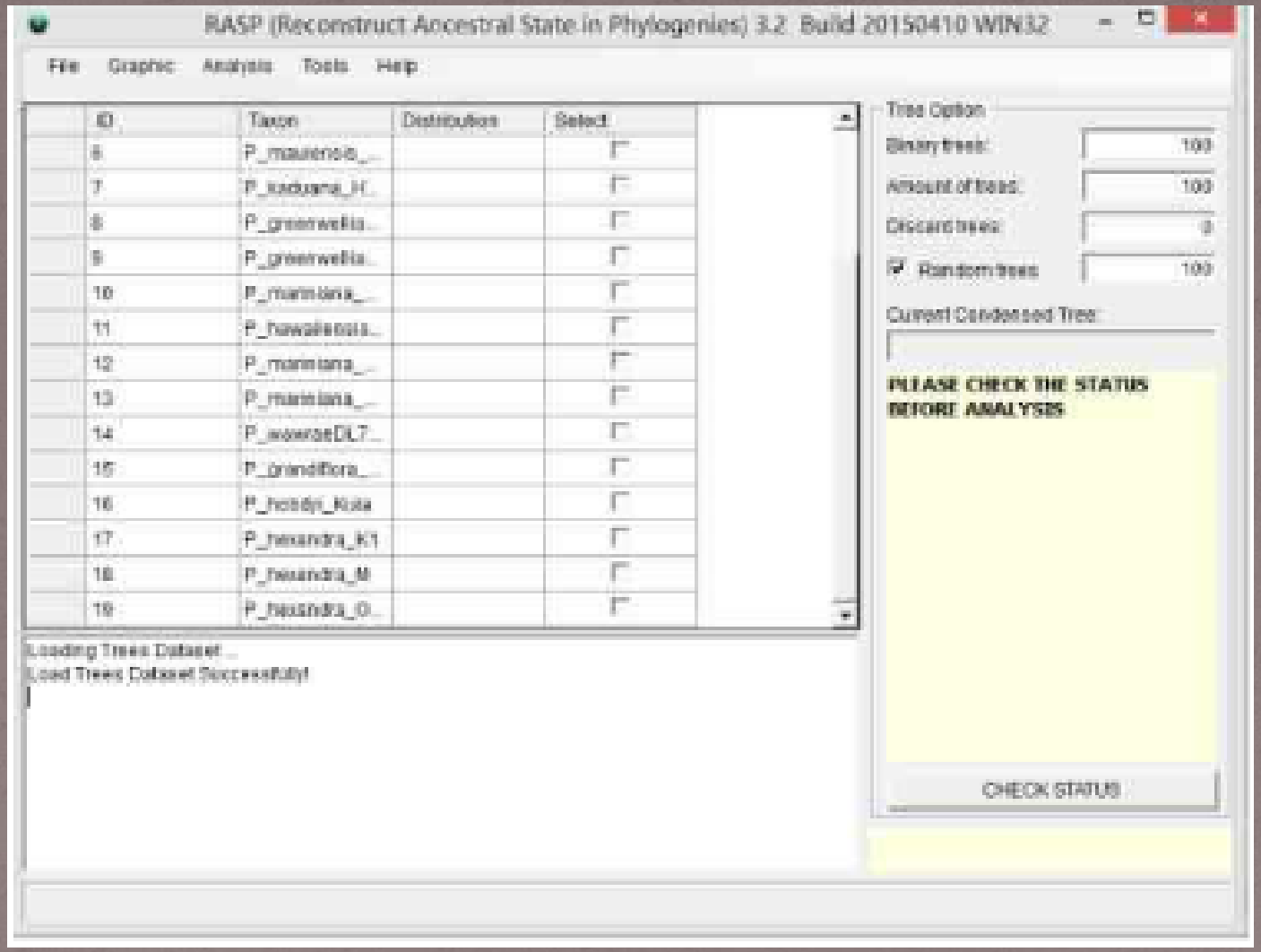

A
A
A
B
+A
+A
-B
-B
B
B
AB
(e)

重建系统发育的祖先状态

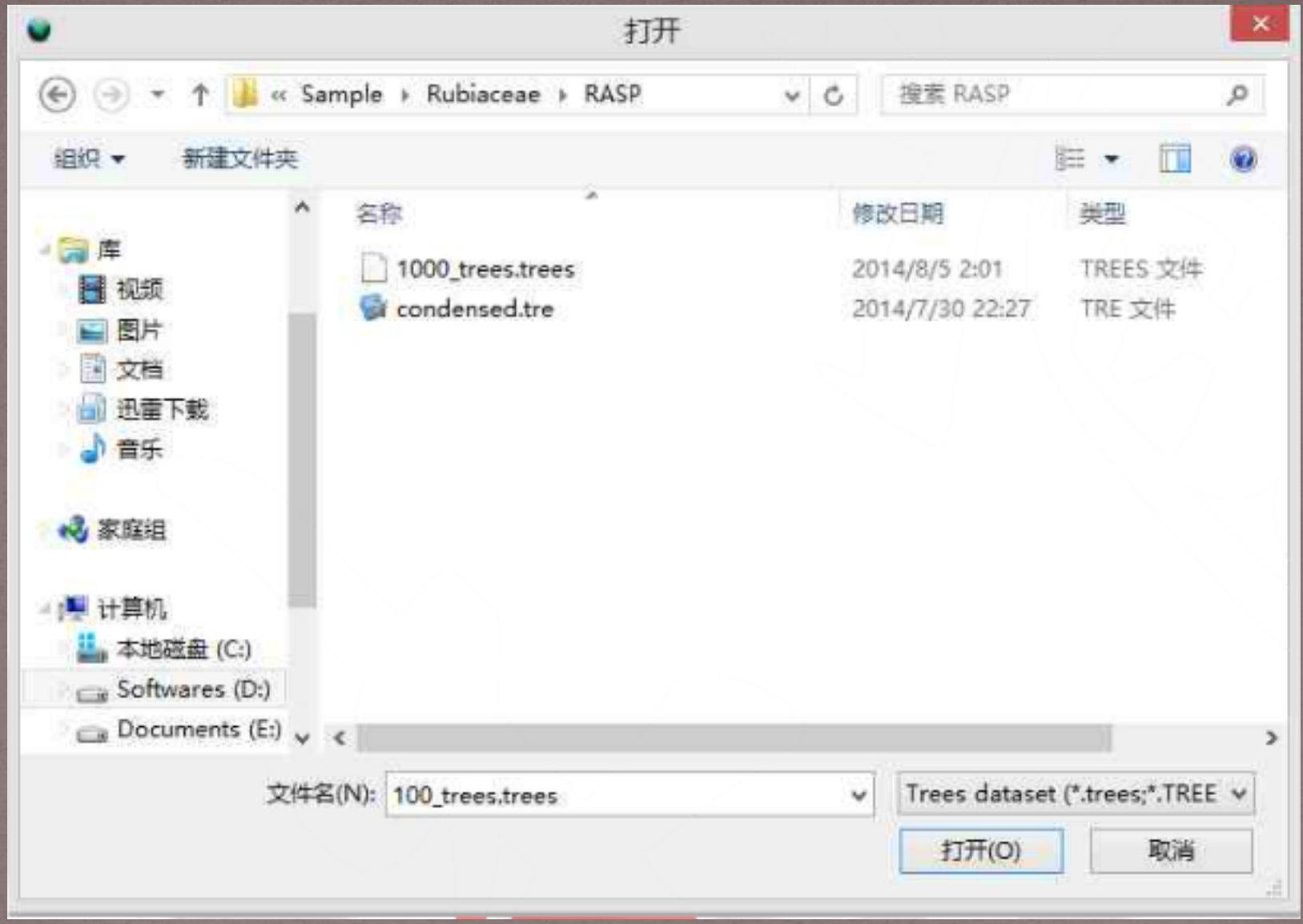
- Detailed operating procedures：
- http://www.docin.com/p-20903193329.html



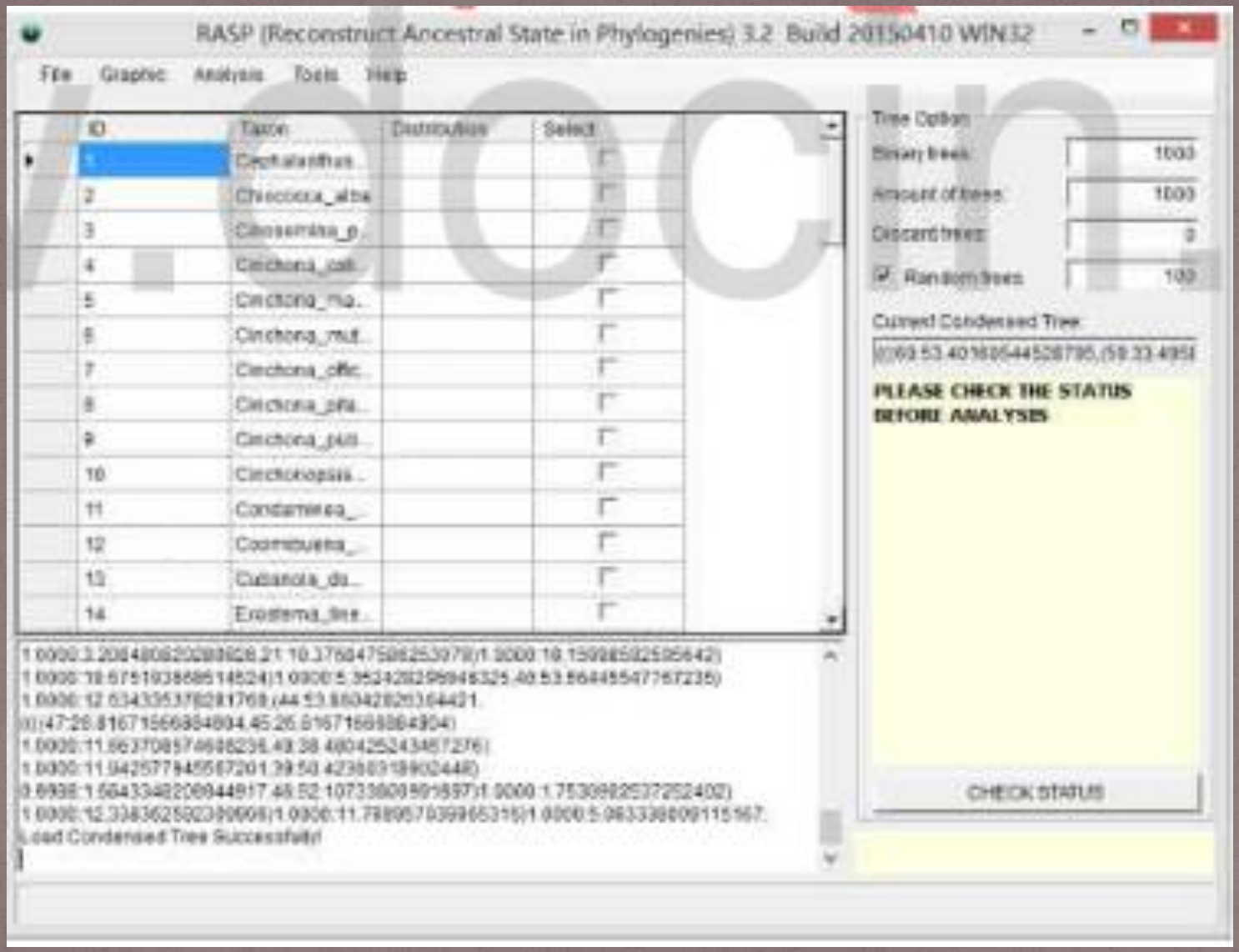
- File->load tree



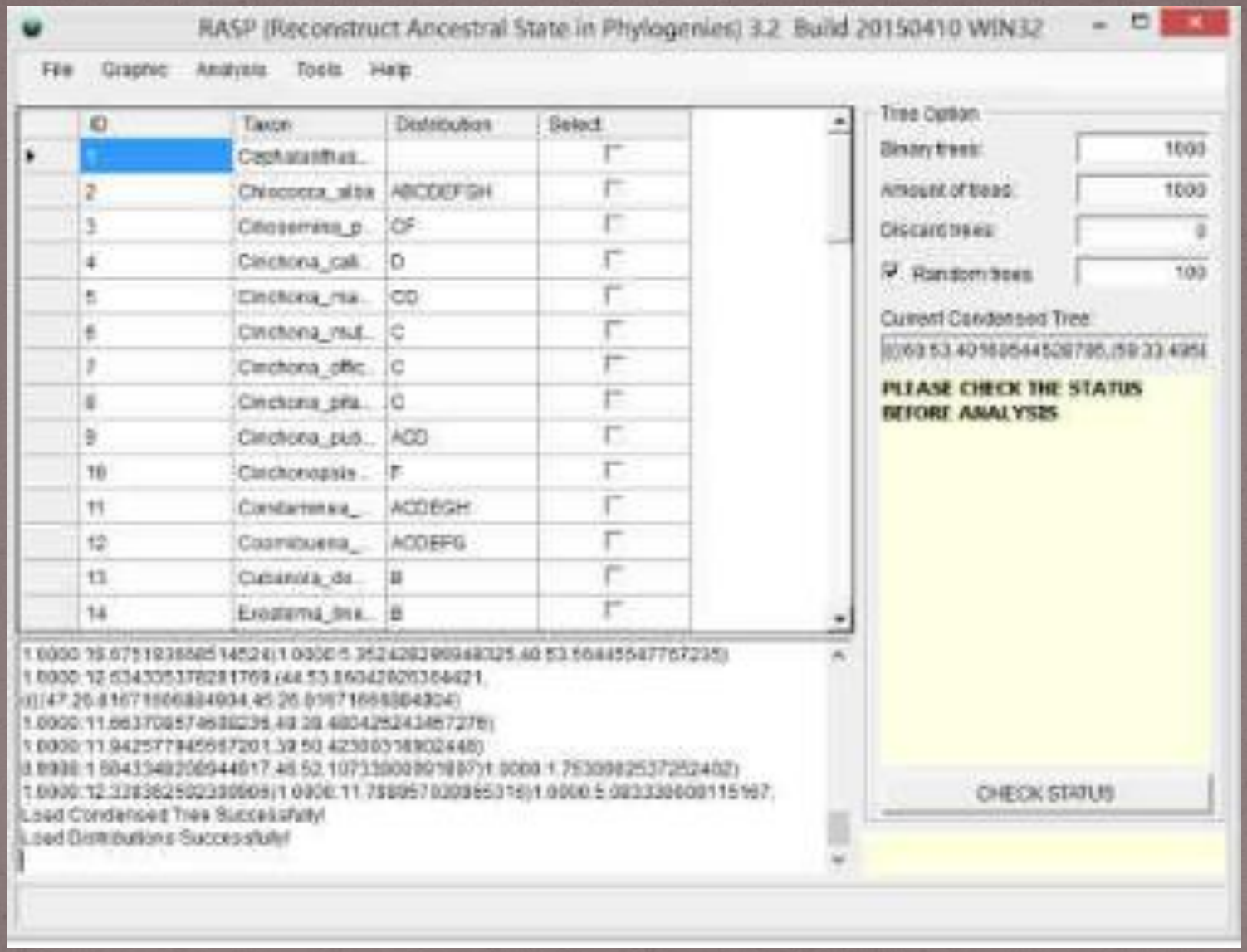
- File->save distribution



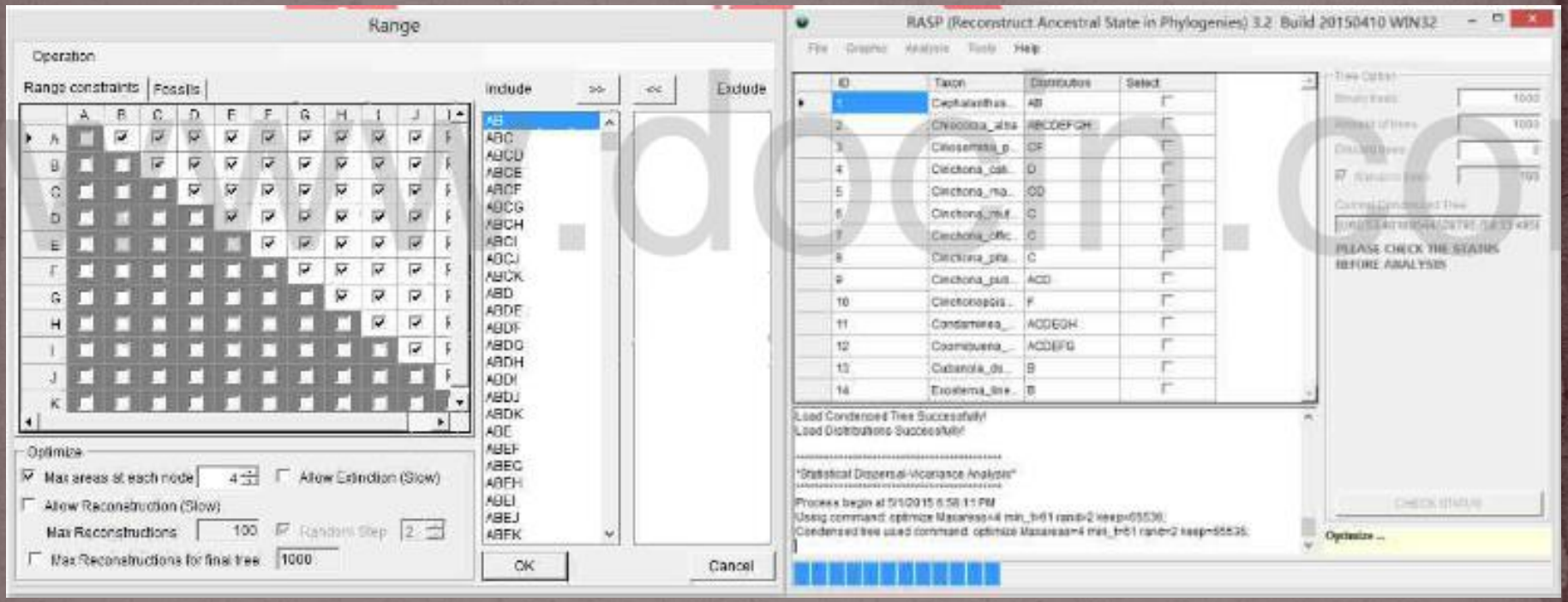
- File->load tree->load trees



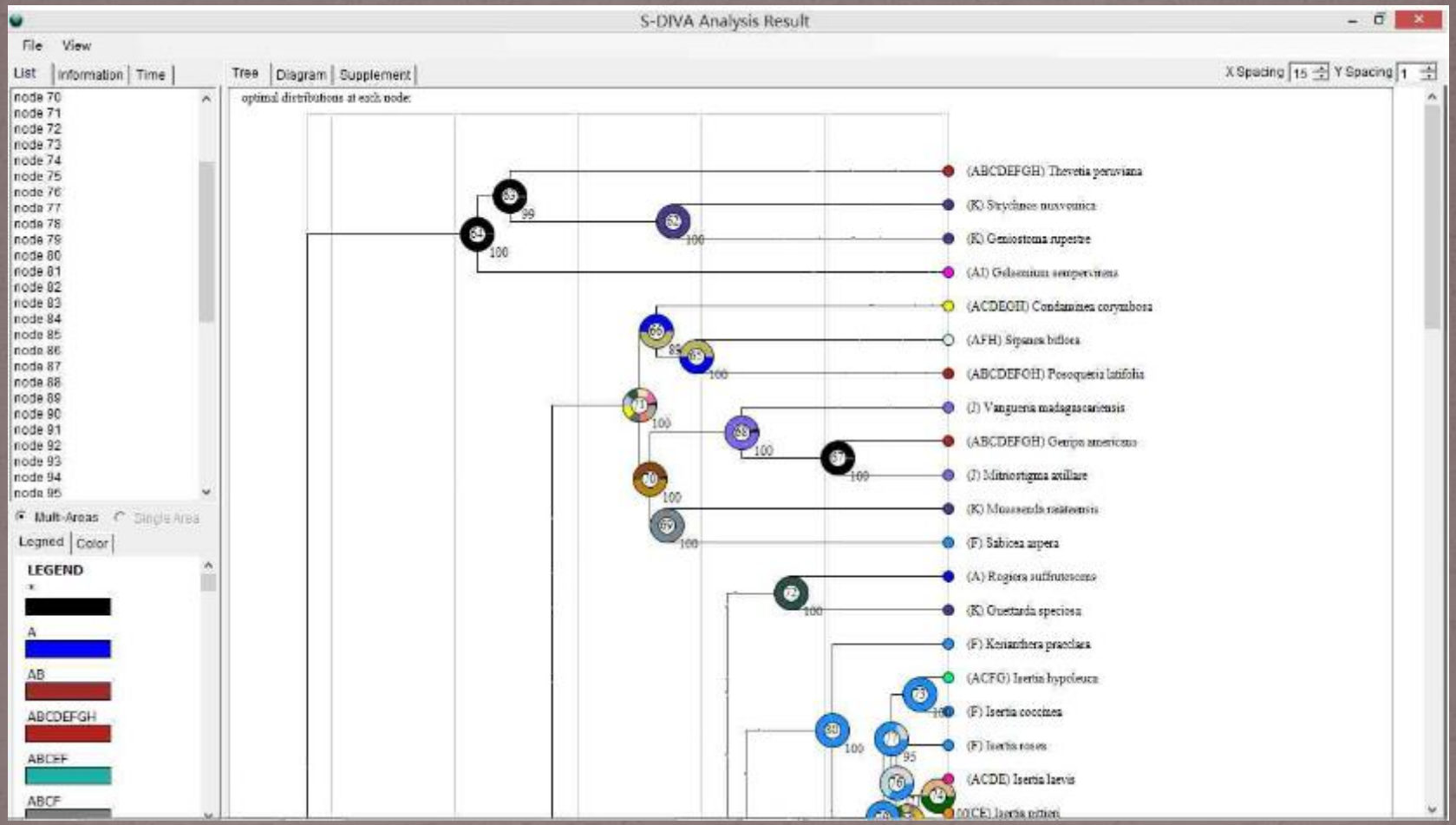
- File->load Condense Tree



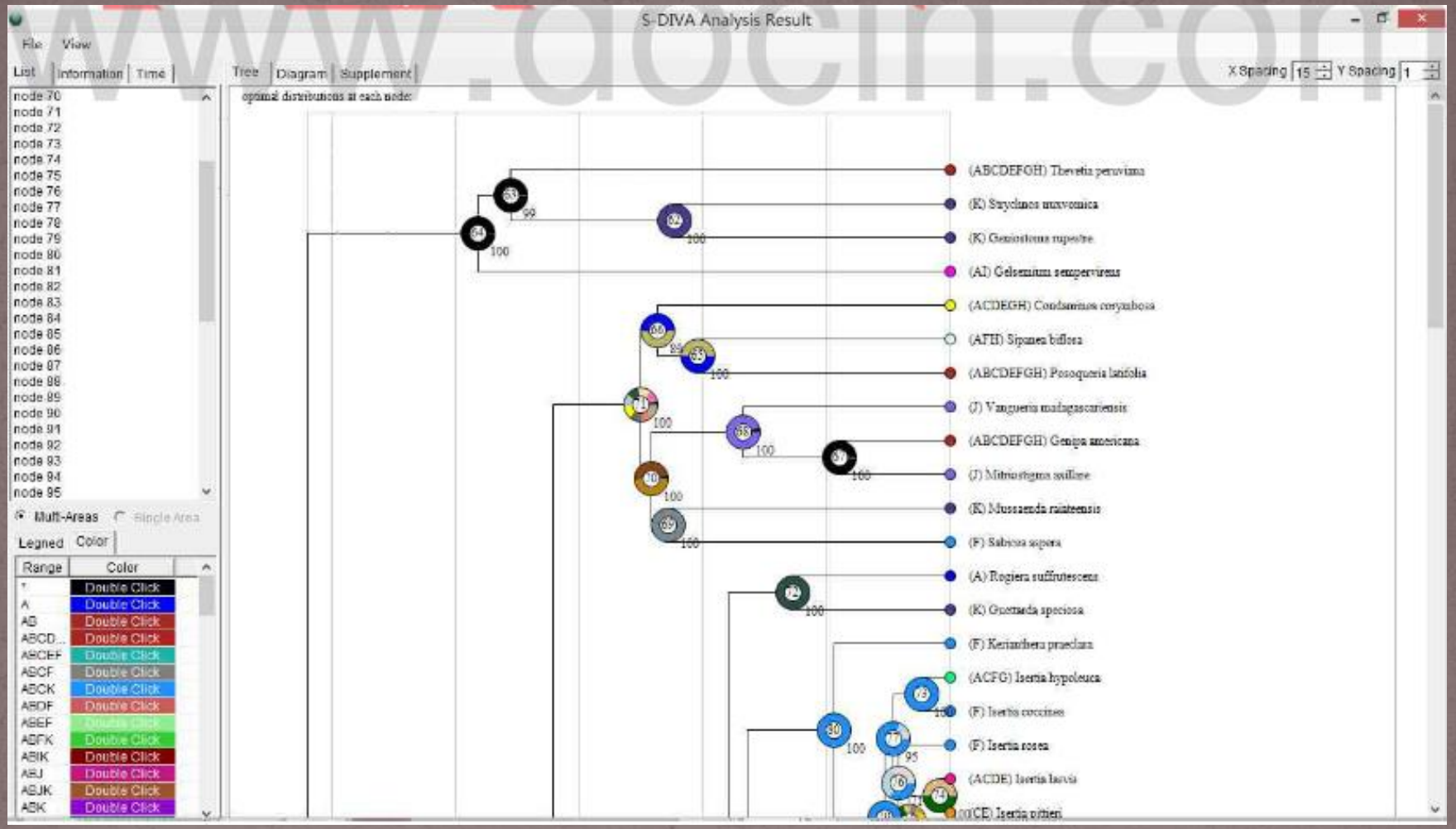
- File->load Distribution



- Analysis->Statistical Dispersal Vicariance Analysis

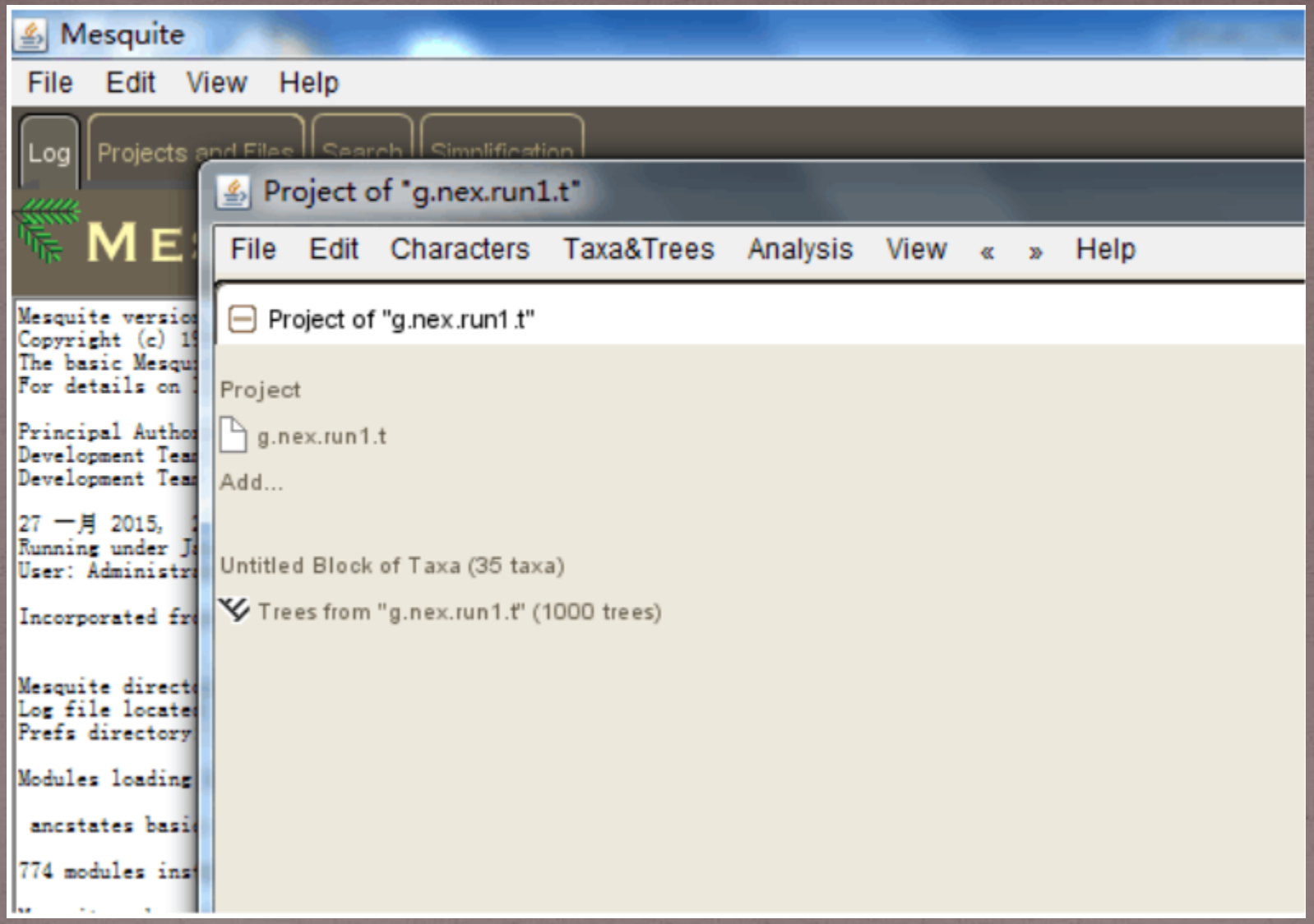


- Graphic->Tree view

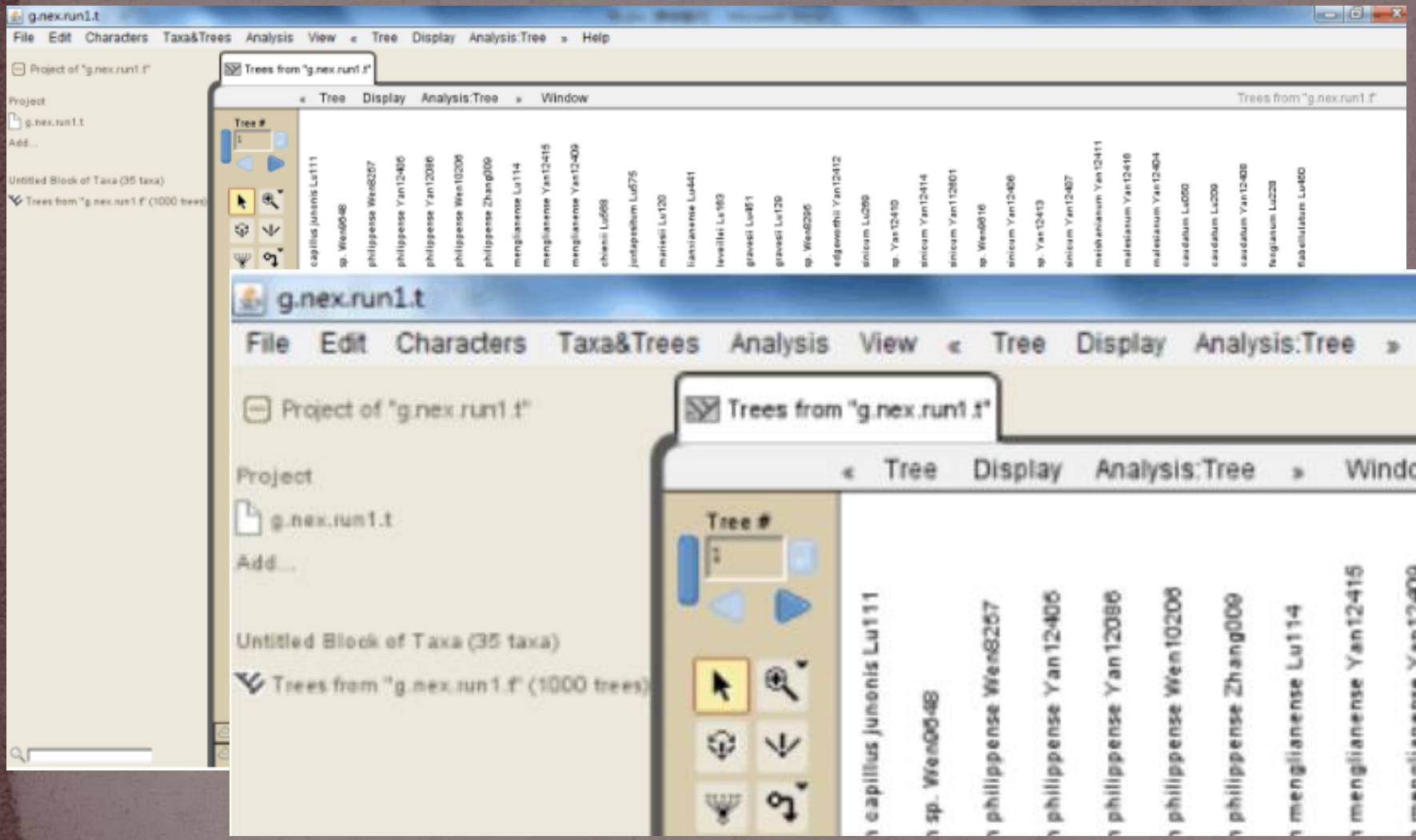


- Color
- File-> Export Graphic

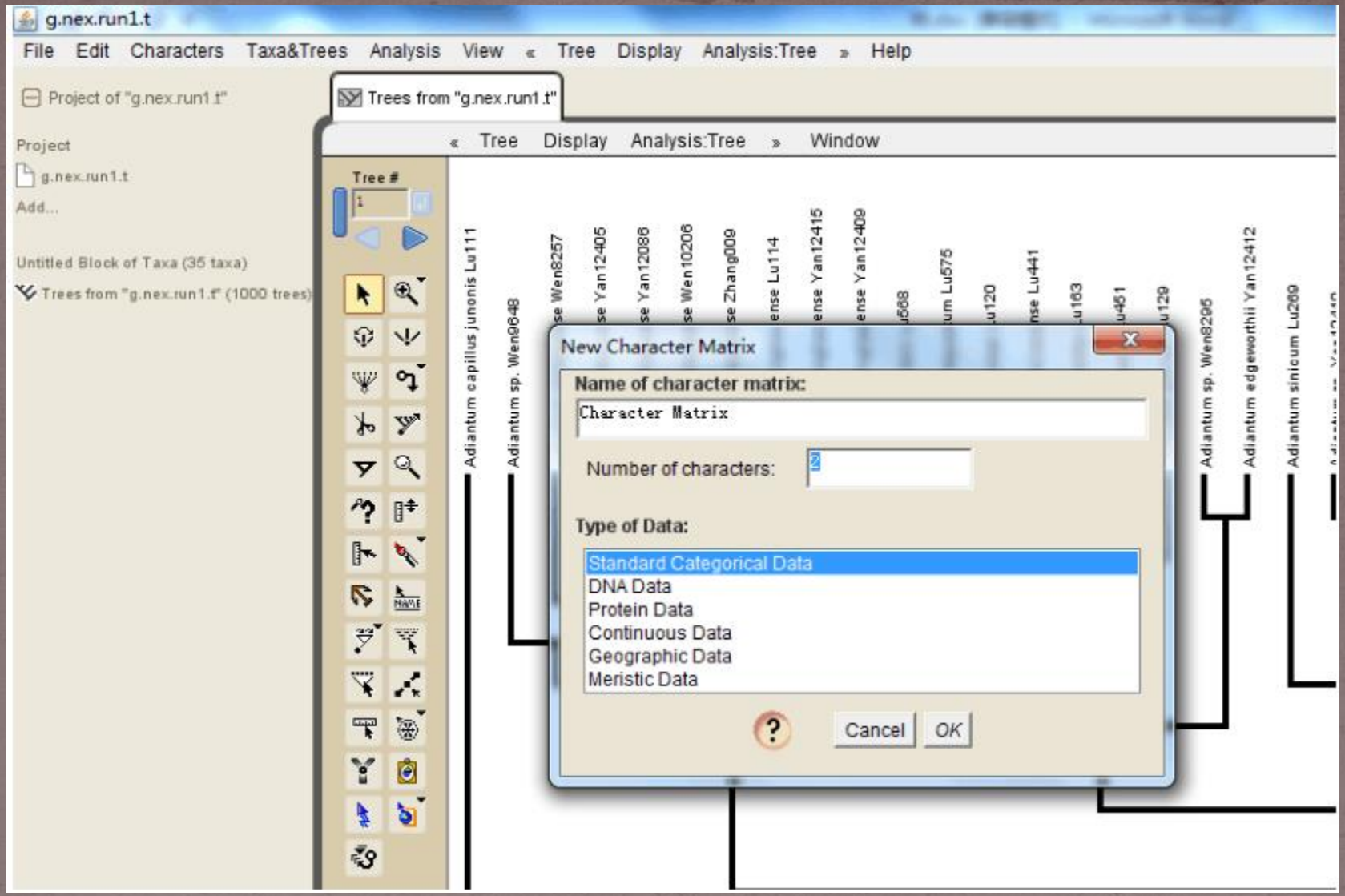
- Detailed operating procedures：
- https://wenku.baidu.com/view/f17a326cf18583d0496459ce.html



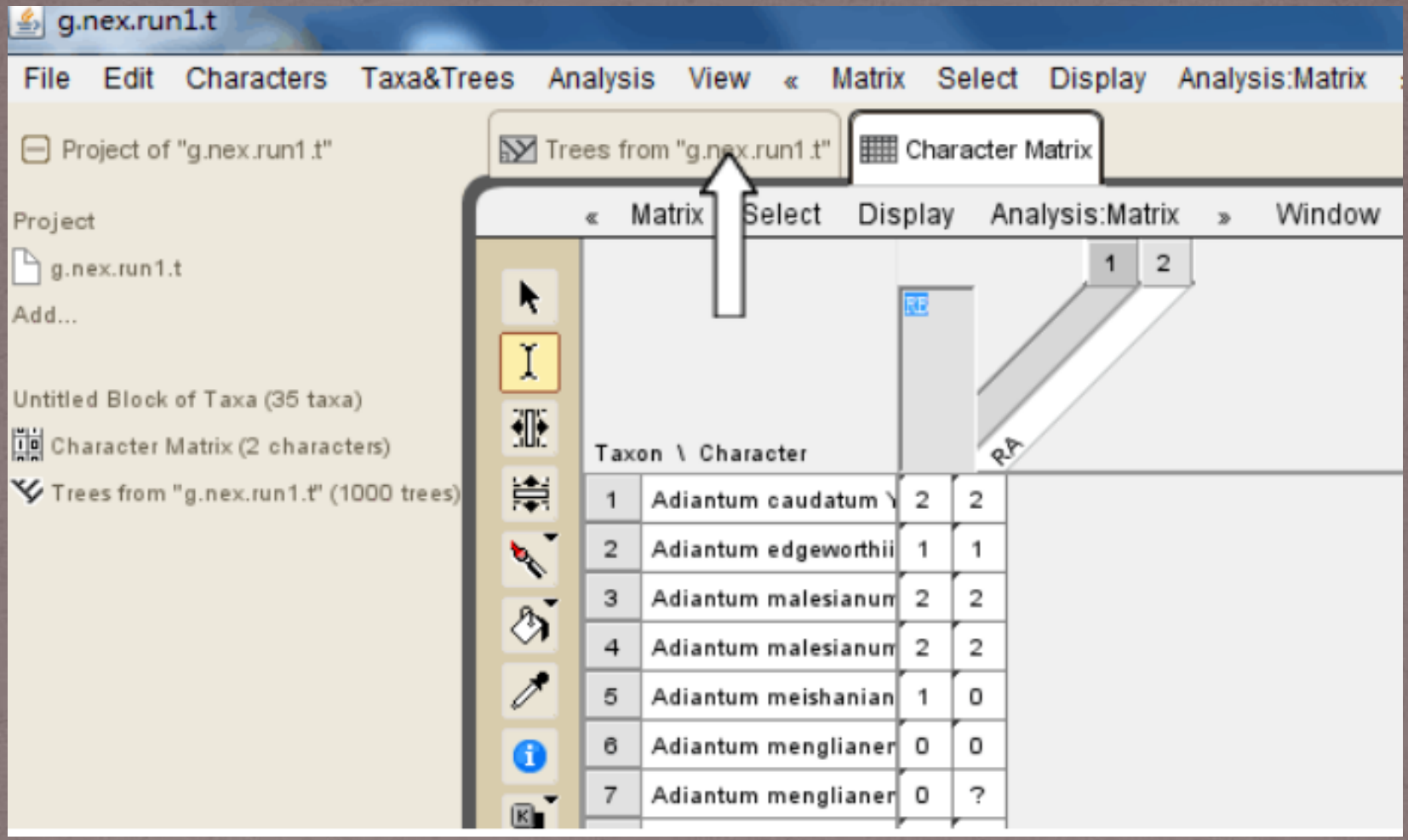
- File->load tree



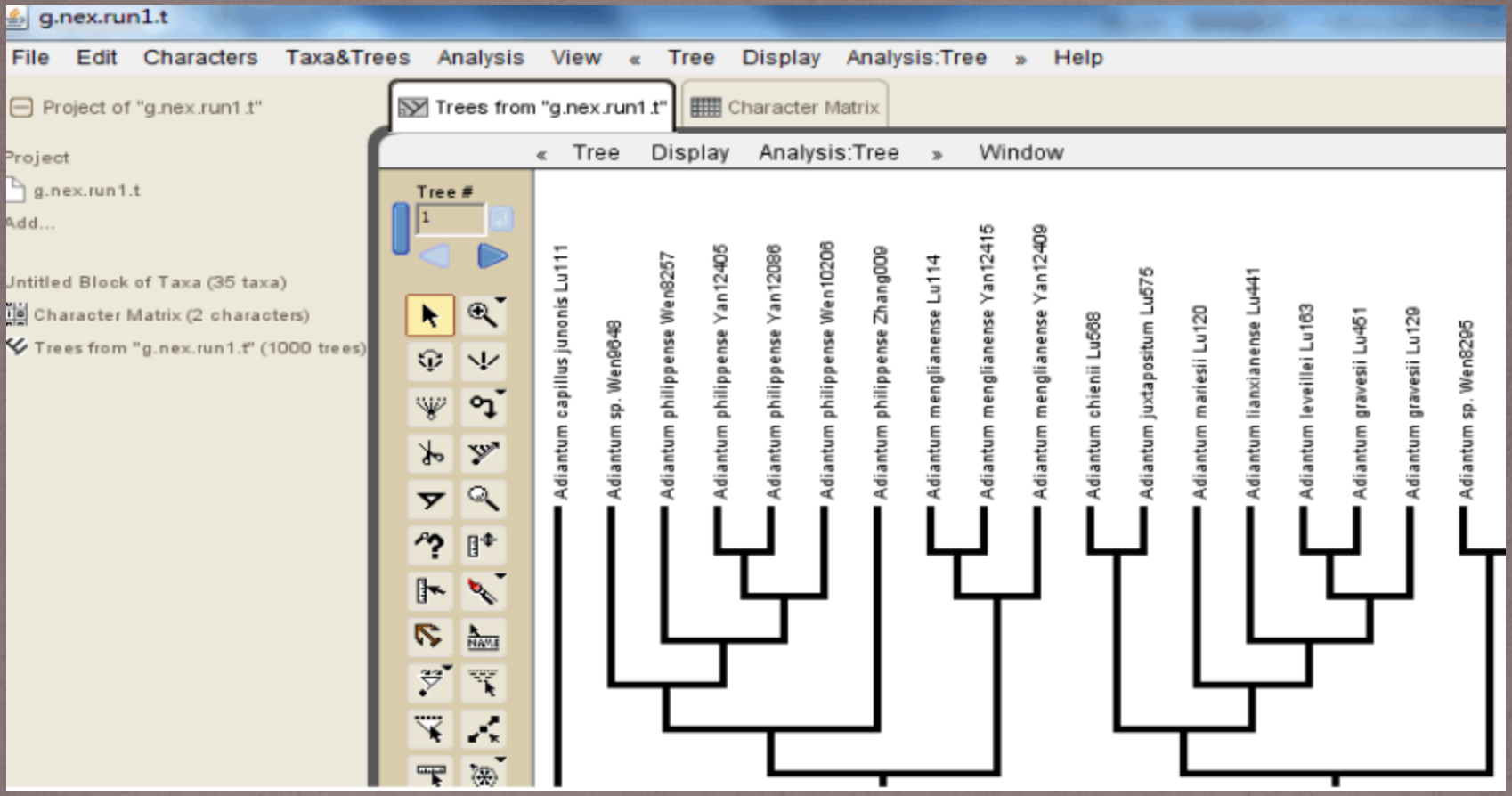
- Trees from” ” ->view tree



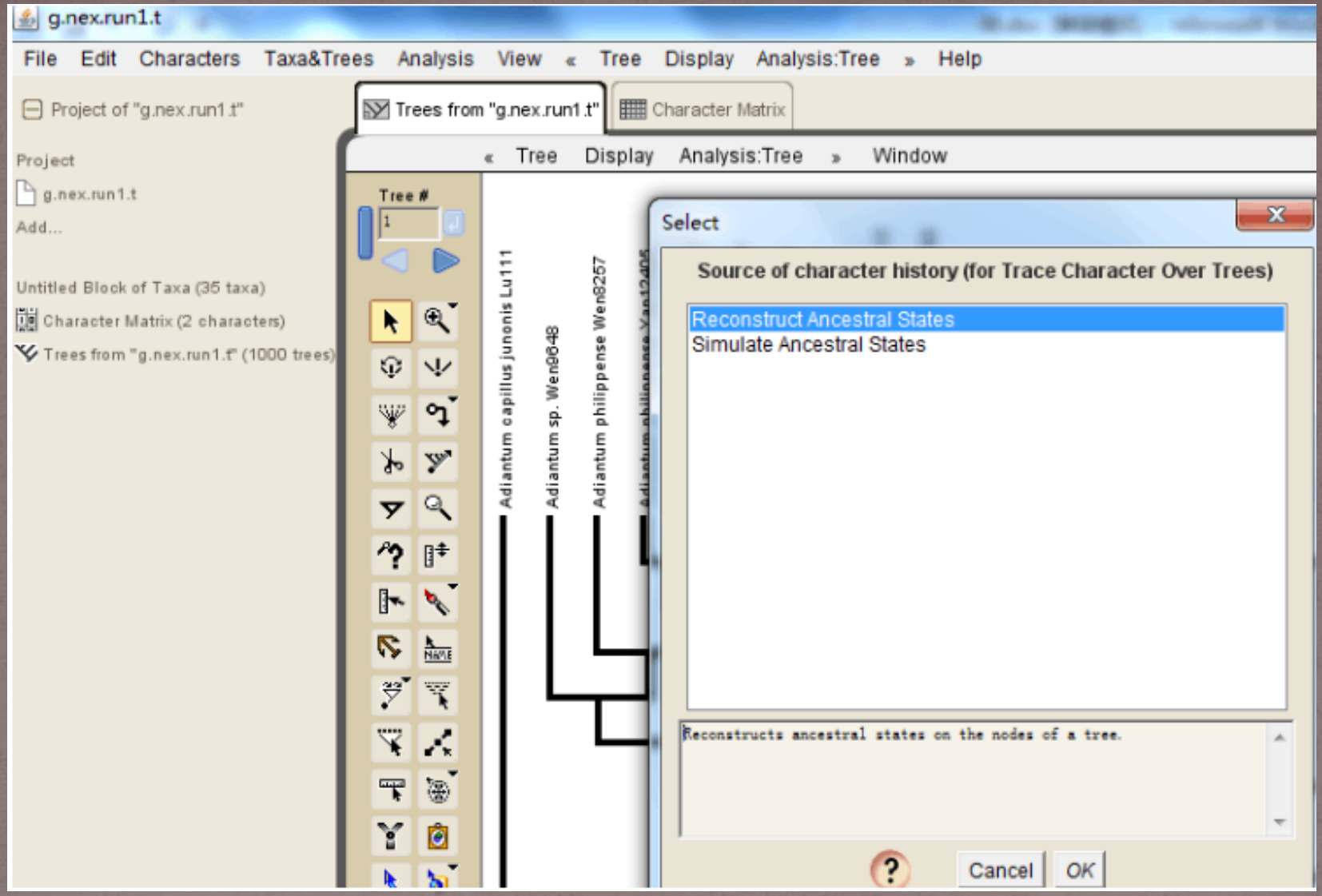
- Characters->New empty matrix(Number of characters)->ok



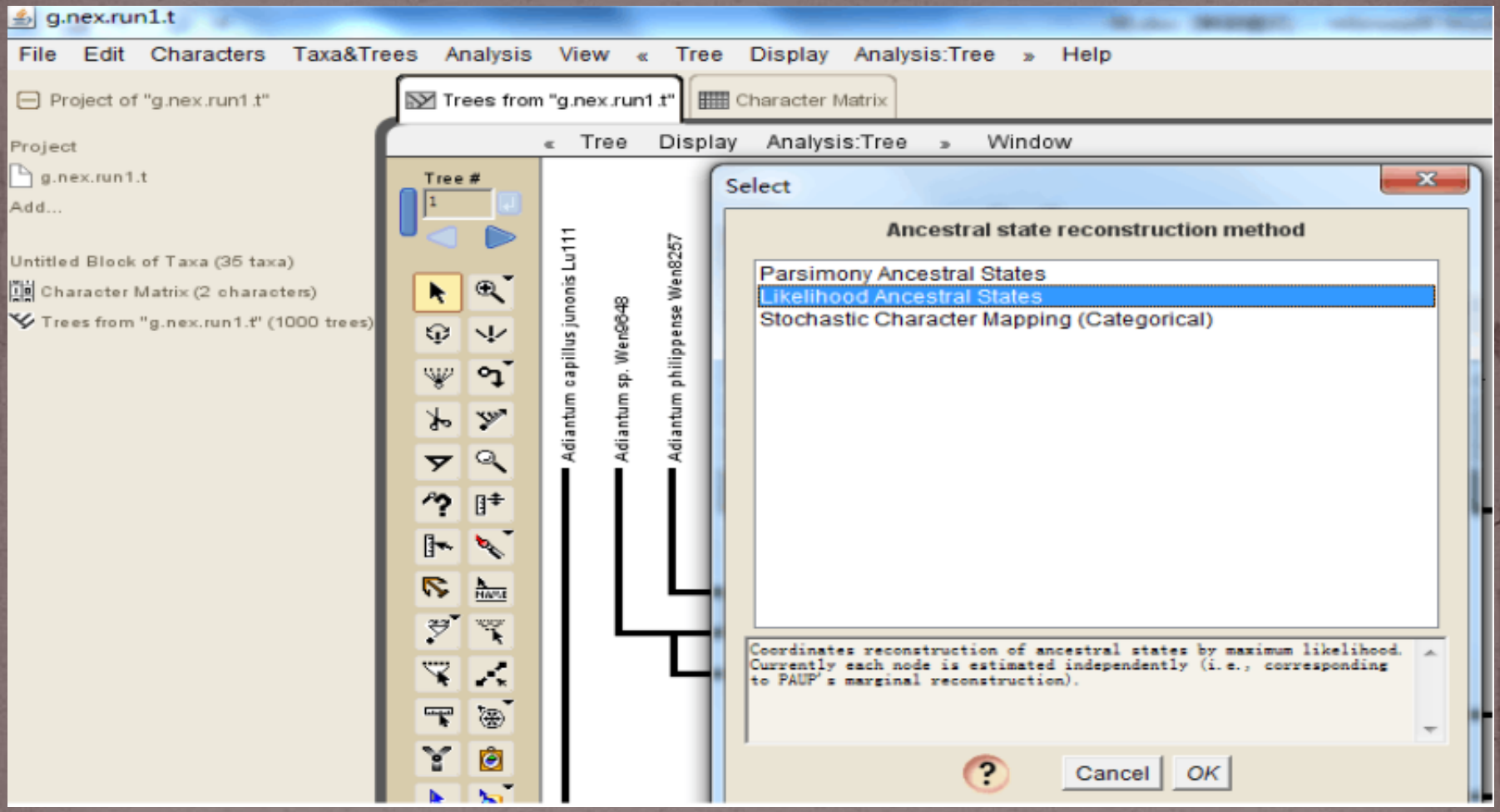
- Edit character name



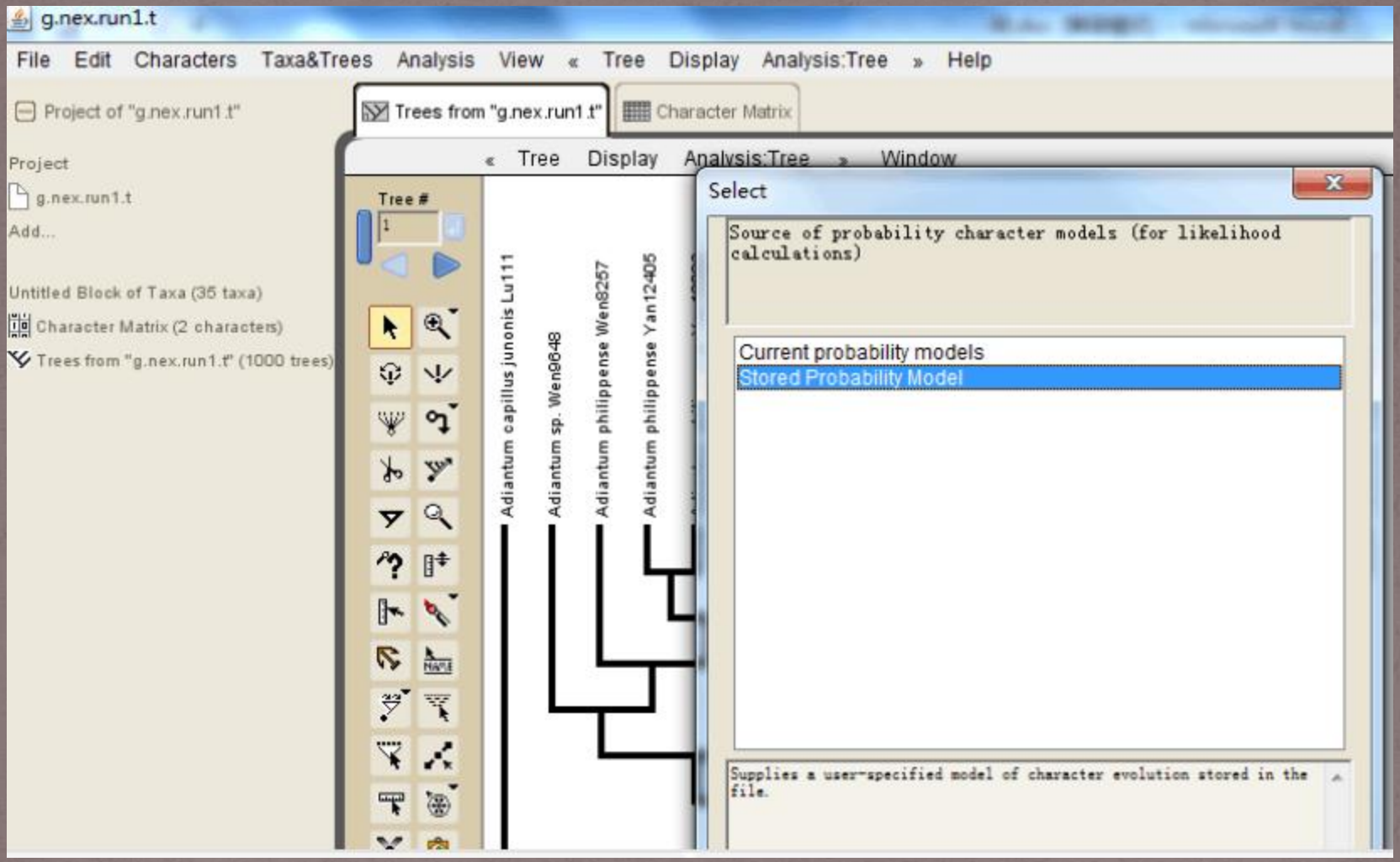
- Click: Trees from” ”



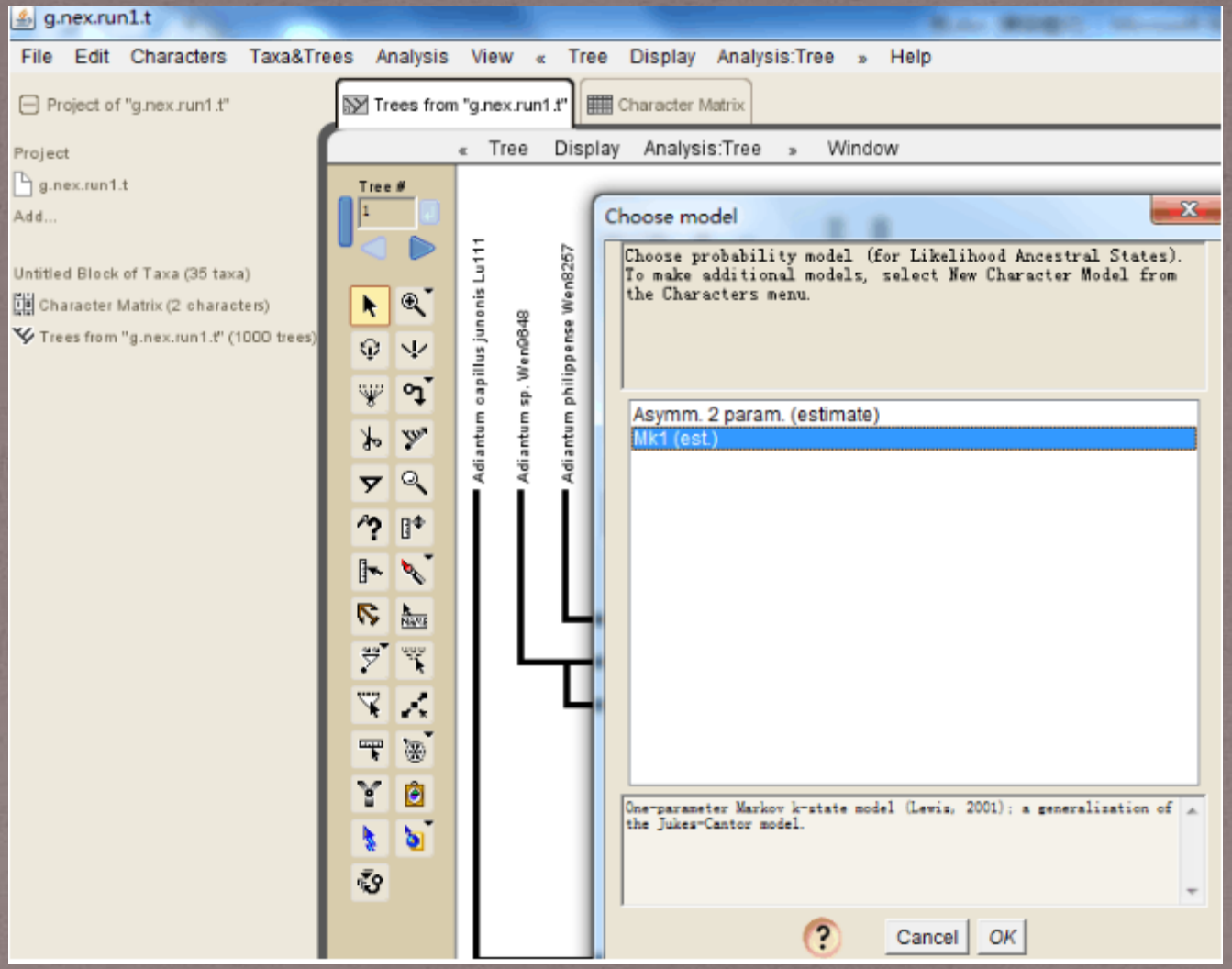
- Analysis: trace characters over trees->ok



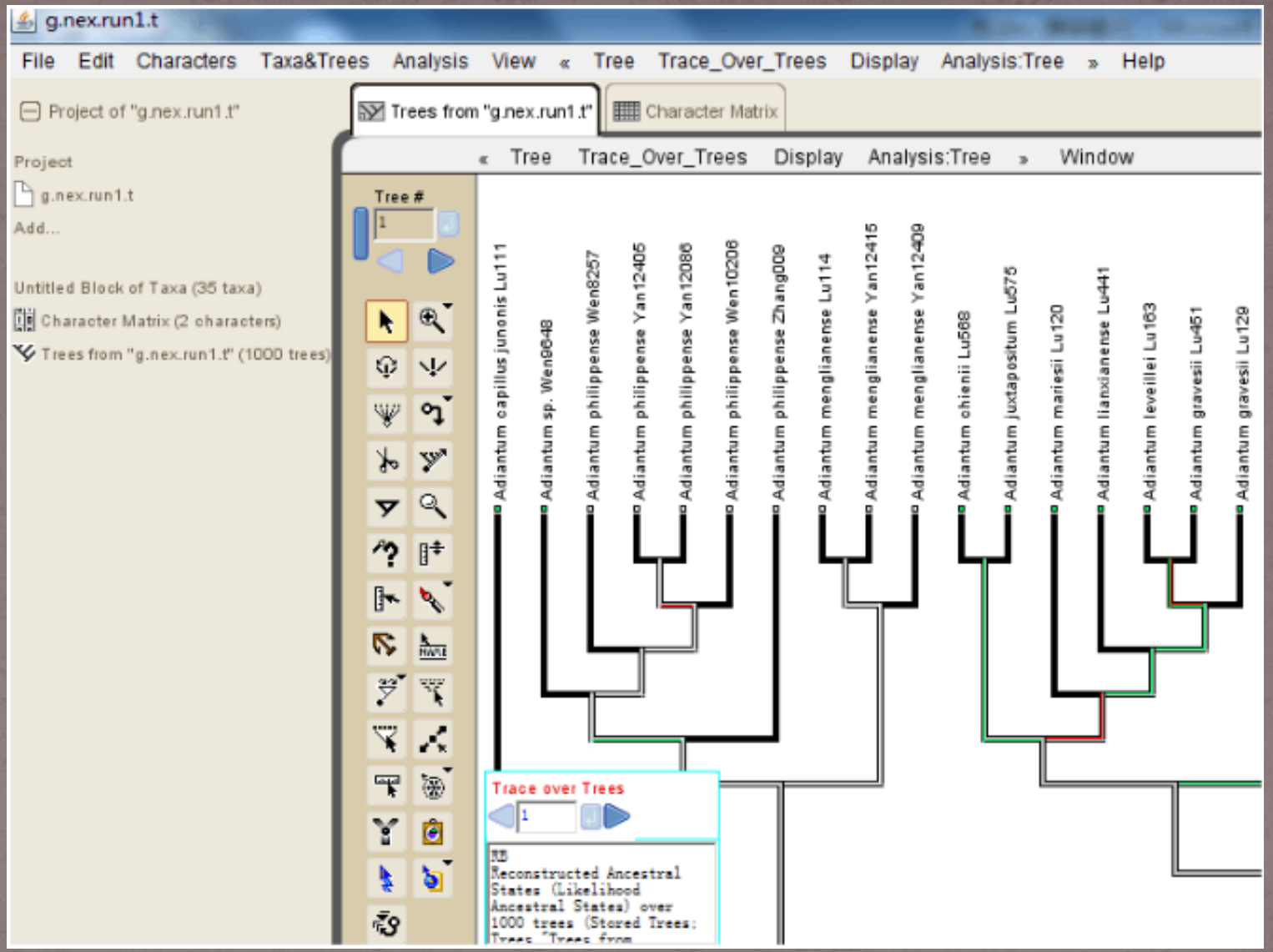
- Likelihood ancestral states



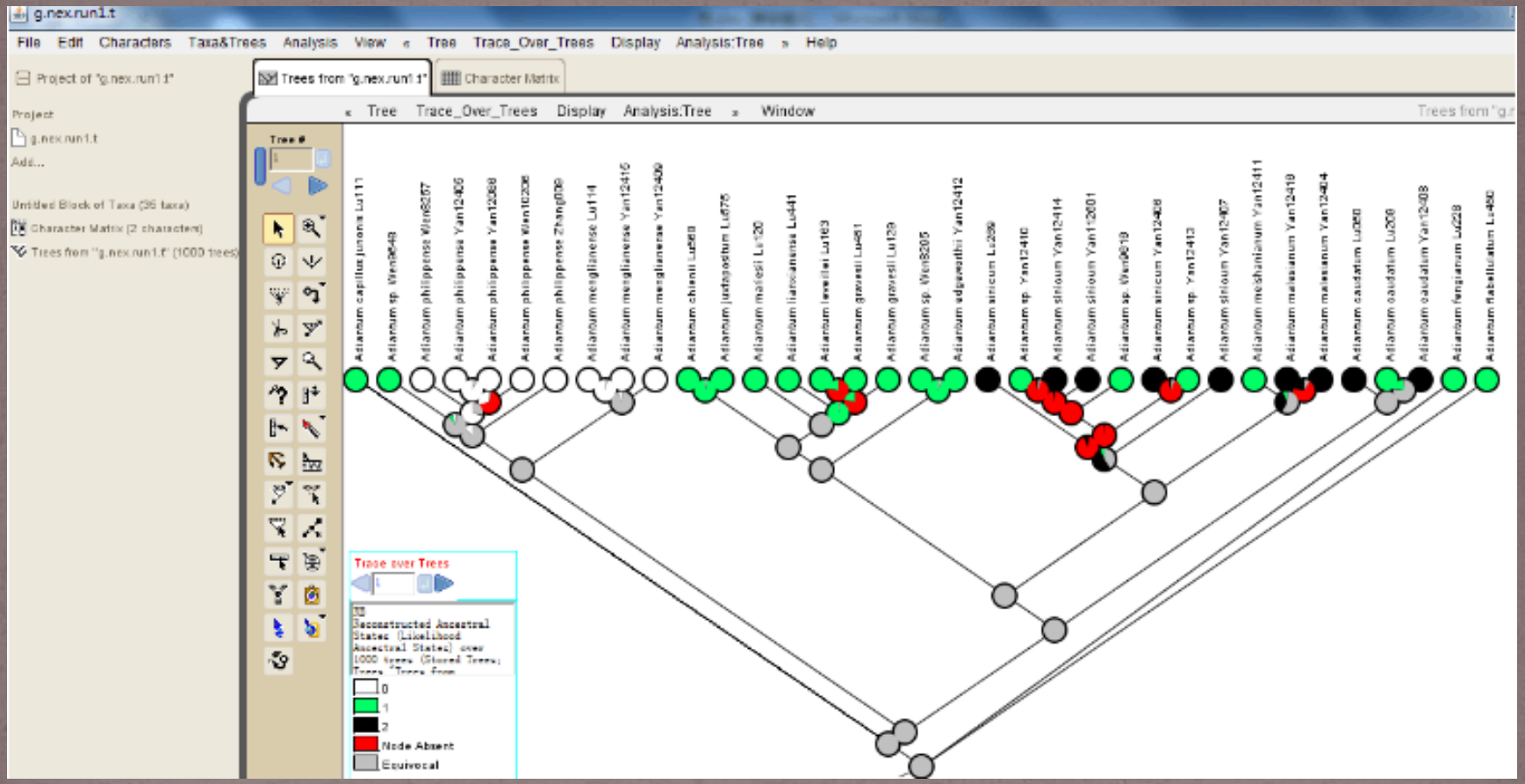
- Stored probability model



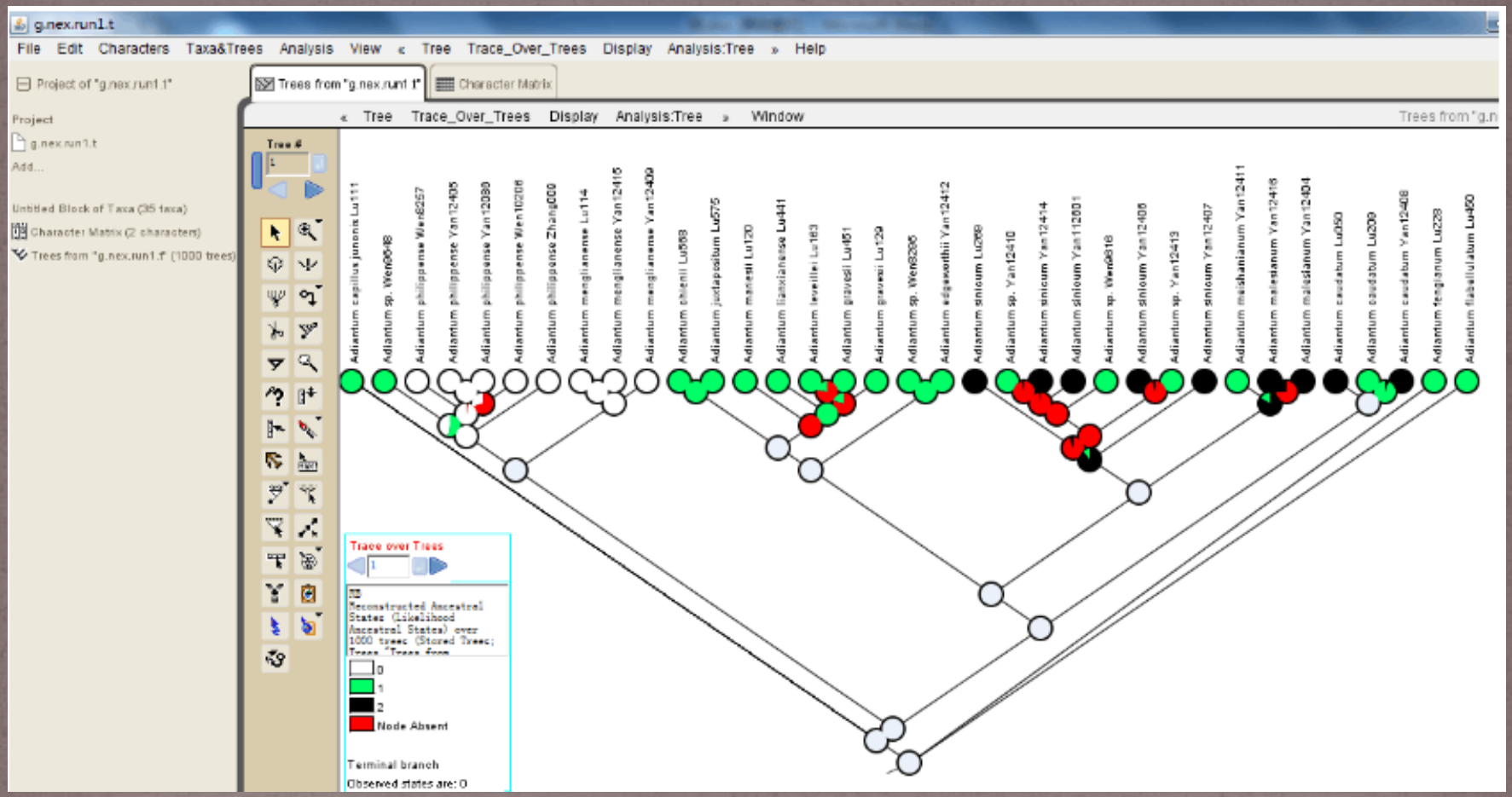
- Shade states-> stored trees->MK1(est)



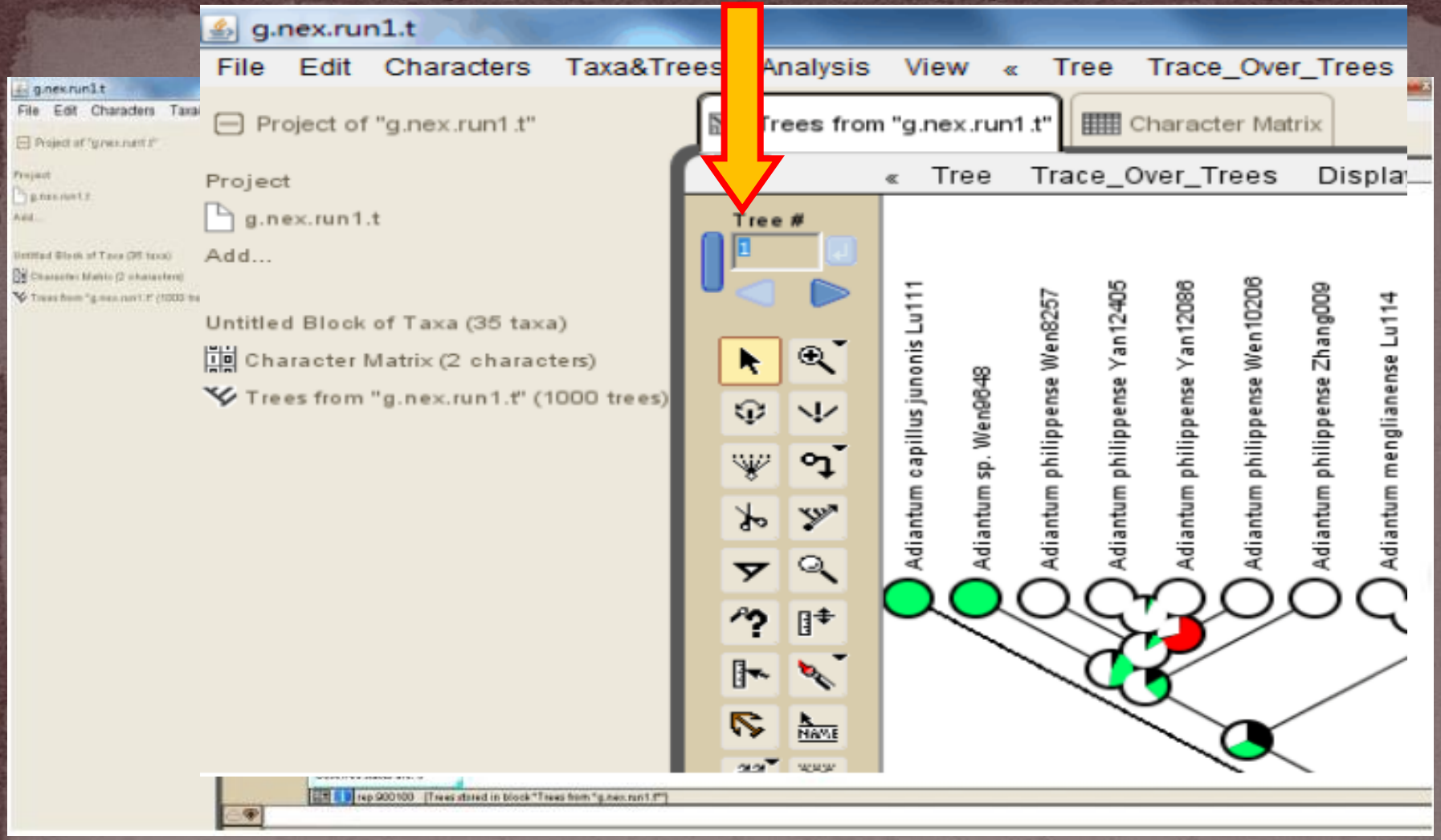
- Display->tree from->Ball & sticks



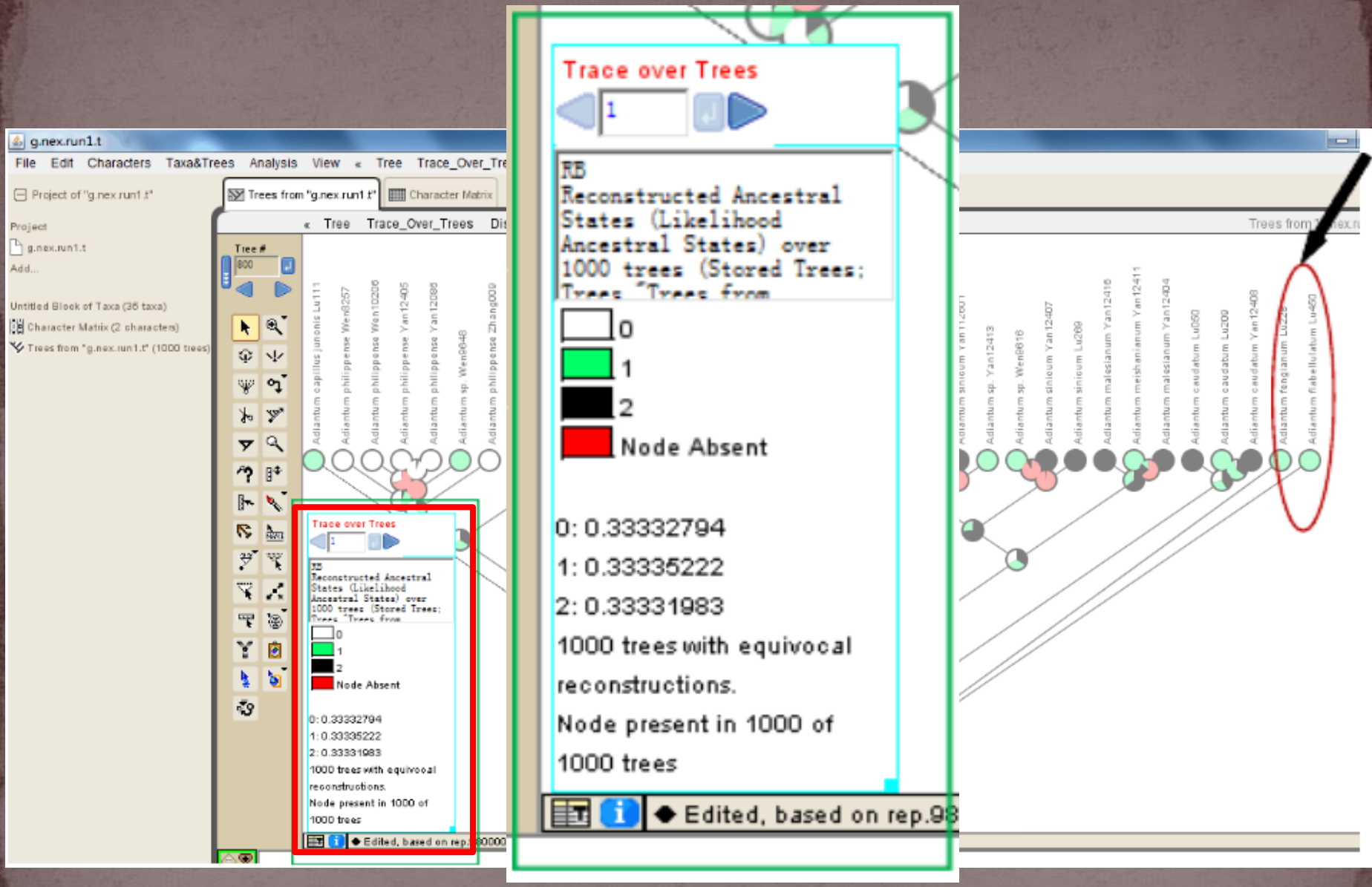
- trace over trees-> Show fractions of trees with Equivocal（Remove the “√”）



- trace over trees-> Calculate-> Average frequencies across trees



- Likelihood ancestral states->



- Character of ancester


昵图网 nipic.com/