

Opportunities for International Travel and Research

Pamela S. Soltis

Distinguished Professor & Curator
Florida Museum of Natural History







Central
COLLEGE

KU
THE UNIVERSITY OF
KANSAS



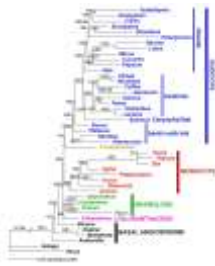
WASHINGTON STATE
UNIVERSITY



Florida Museum of Natural History



Dickinson Hall



Laboratory of Molecular Systematics and Evolutionary Genetics



Pam Soltis & Doug Soltis

psoltis@flmnh.ufl.edu





I am the greatest botanist on the planet.

--Mark Watney

*Biodiversity:
The totality of life on Earth*





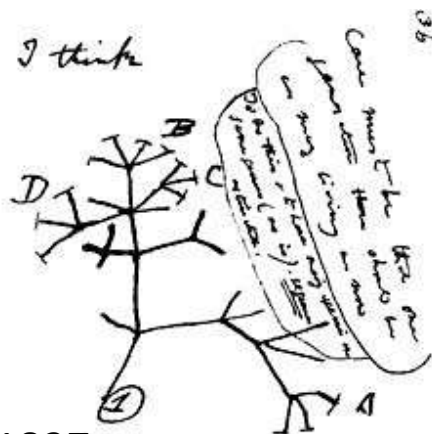
The Angiosperms (flowering plants)

- >300,000 species (400,000?)
- ~400+ families
- Early Cretaceous origins, ~130 mya

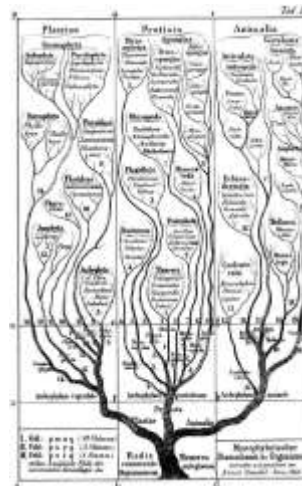


The Angiosperms (flowering plants)

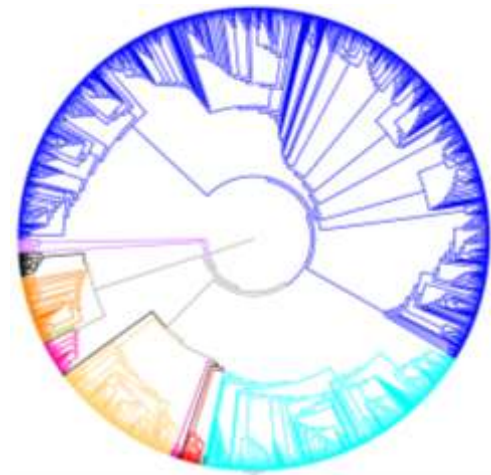
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Darwin , 1837



Haeckel , 1867



Field Work: Ordway-Swisher Biological Station, FL



Field Work: Talladega National Forest, AL



International Travel: Research & Conferences



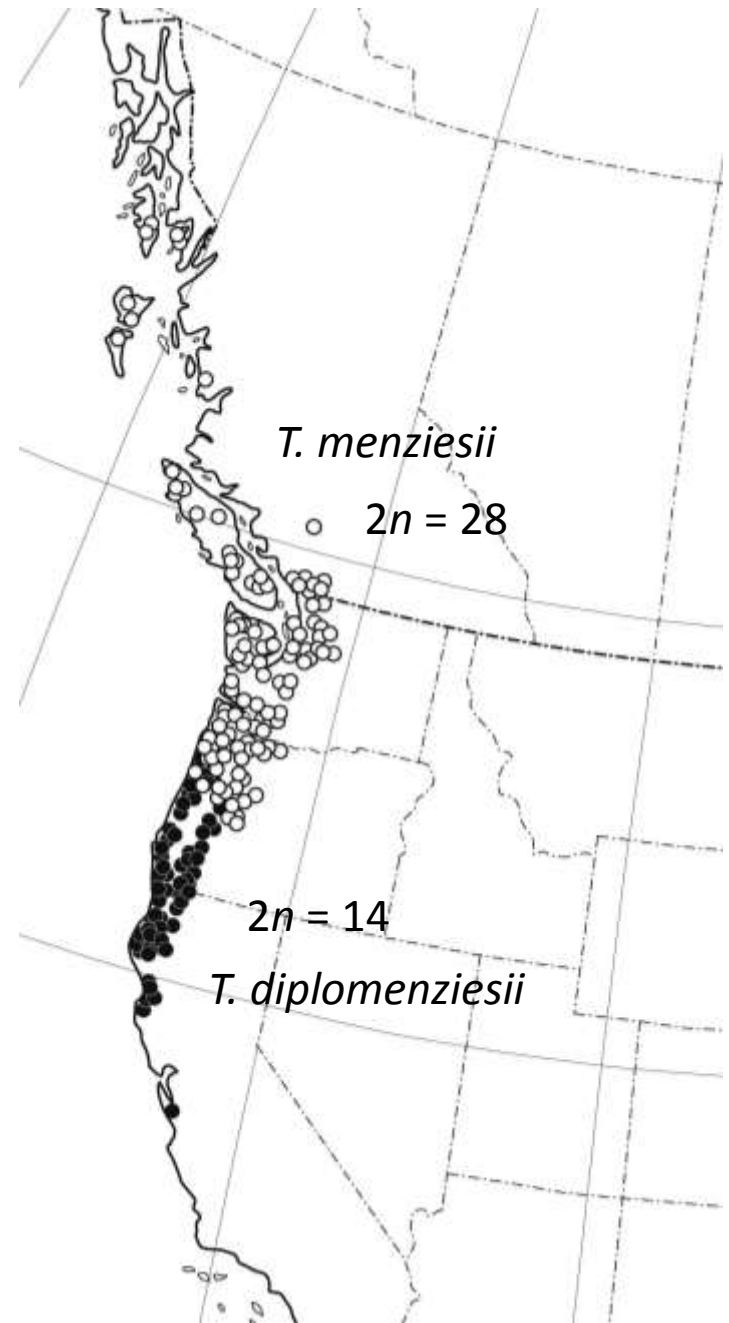
Alaska & Canada



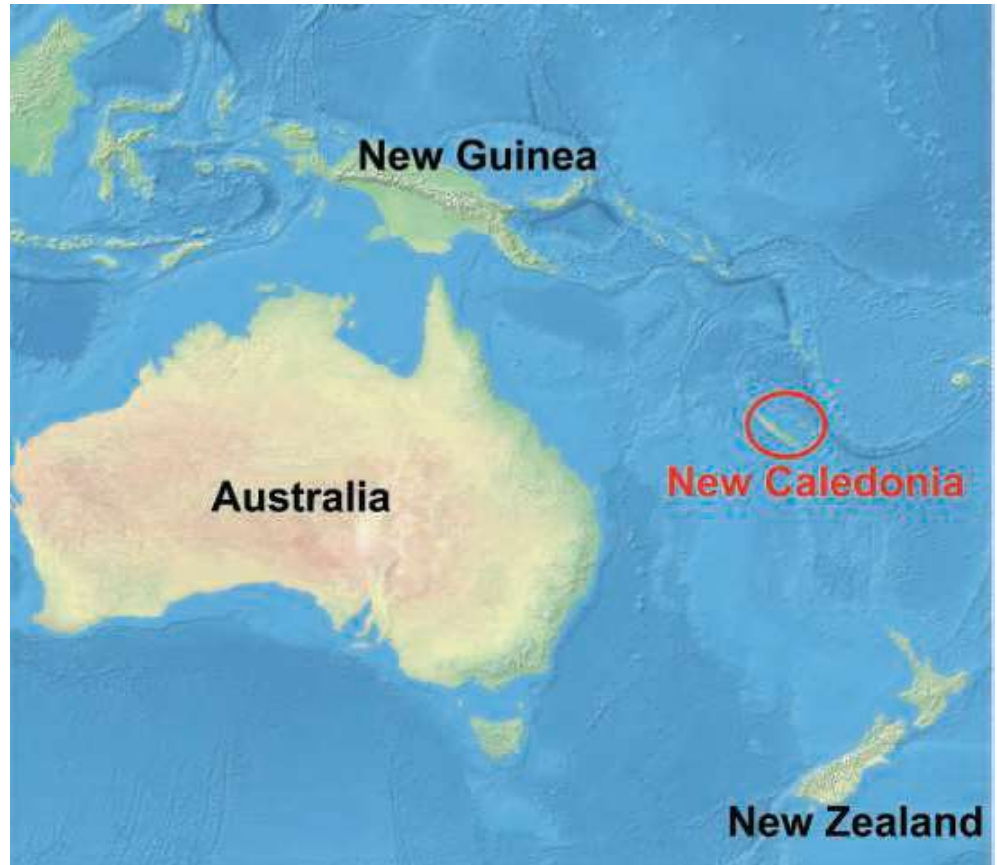
Tolmiea

Diploids and tetraploids:

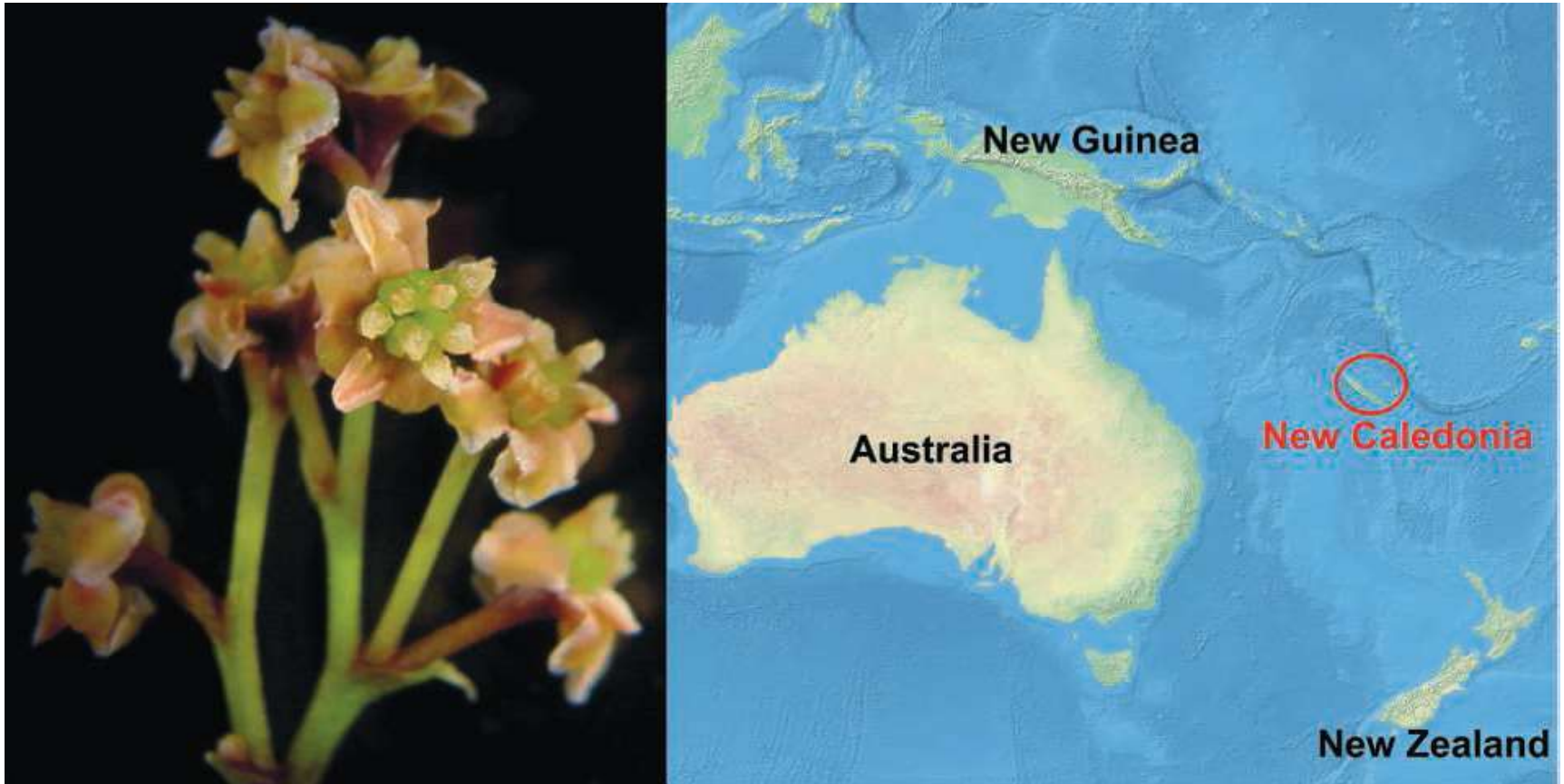
- Distinct ranges
- Reproductively isolated
- Cryptic morphological differences



New Caledonia



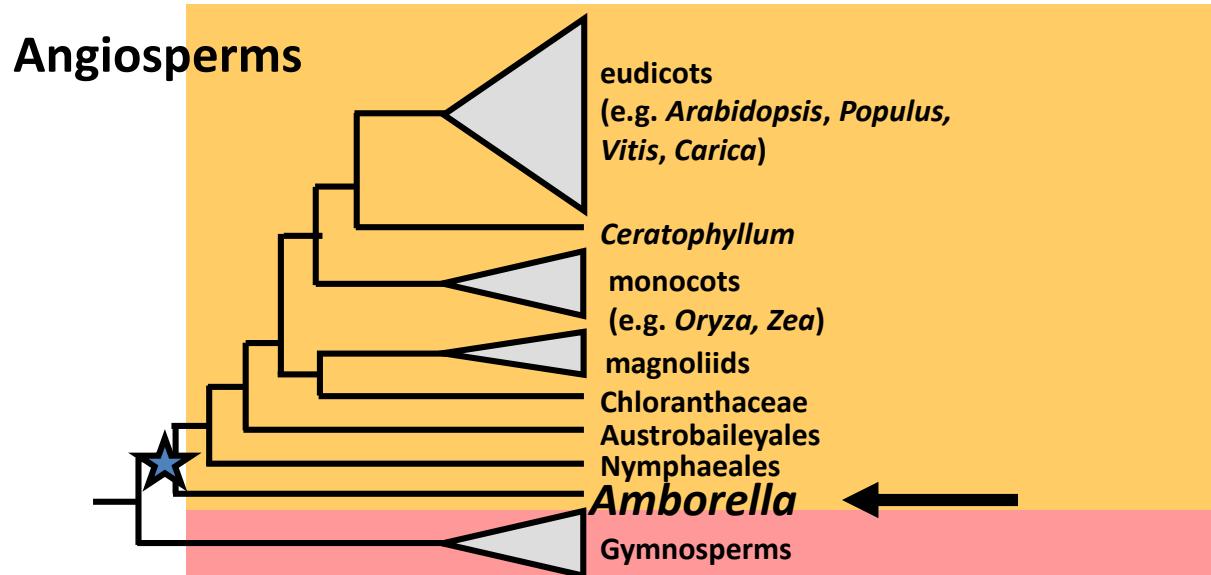
New Caledonia



Amborella

Amborella trichopoda

evolutionary reference for the angiosperms



- Shrub, New Caledonia
- Small flowers
- Spiral arrangement
- Undifferentiated perianth

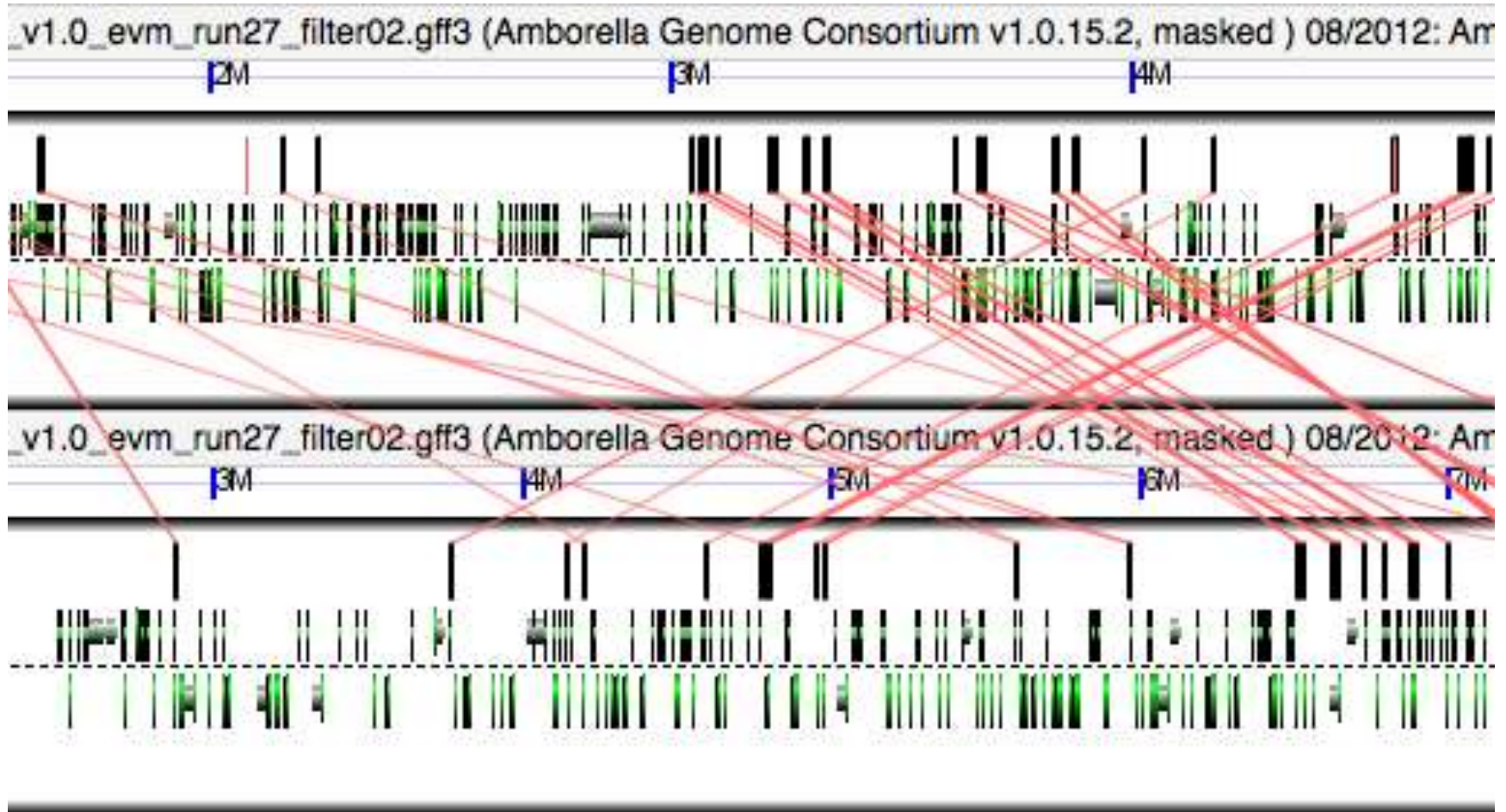




Amborella Genome Project



The *Amborella* Genome



High resolution analysis of intragenomic syntenic regions from *Amborella* that are putatively derived from a pre-angiosperm whole genome duplication event. Note the series of collinear genes between the two regions.

China: Yunnan Province



Water buffalo crossing our road



Countryside near Kunming: corn drying on roof





And of course there is
rice - everywhere!



Fruit!!!!



Breakfast in
BaoShan



FOOD

Lunch at an
award-winning
restaurant near
Kunming



Myanmar (Burma) border crossing at Ruili, China



At the wetland preserve
with women in traditional
costumes, near Tengchong



International Conferences: Tokyo



International Conferences: Barcelona



International Conferences: Canberra, Australia



International Conferences: Skåvsjöholm, Sweden



International Conferences: Guarujá, Brazil



International Conferences: Edmonton, Canada (Jasper Natl. Park)



International Conferences: Munich



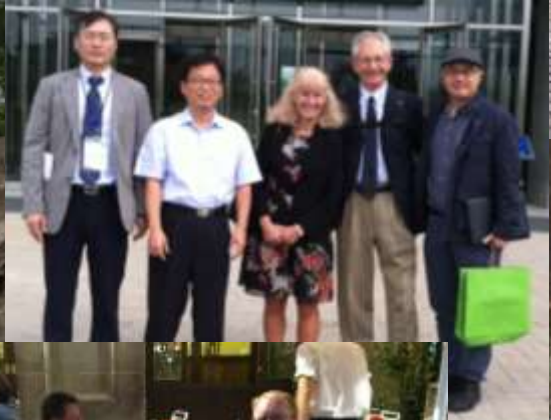
International Conferences: London



International Conferences: Seoul

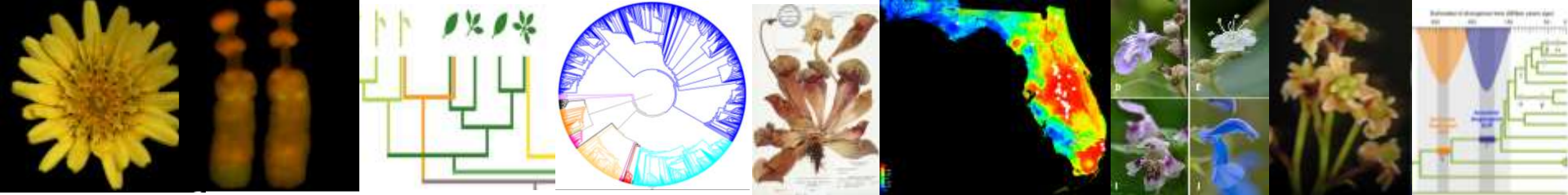


people



Graduate Student Travel





Thank you!

