

Chapters 15

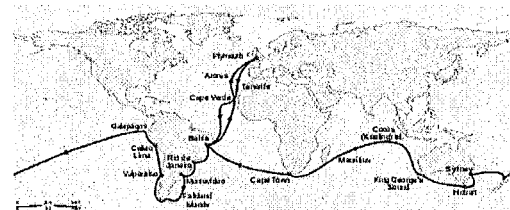
Evolution

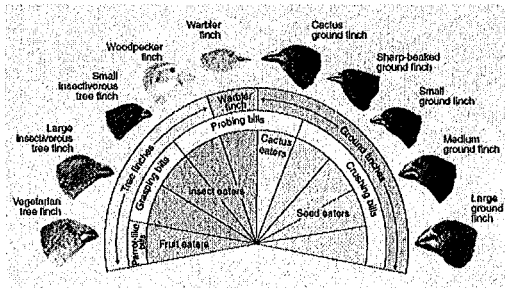
Charles Darwin

- 1809-1882
- HMS Beagle 1831
- 1859 – “On the Origin of Species”

Natural Selection

The Mechanism
for
Descent with Modification
(Evolution)

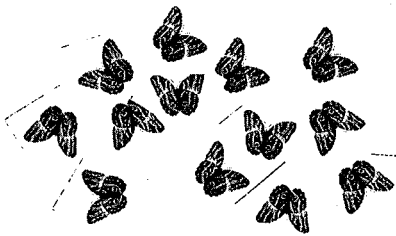




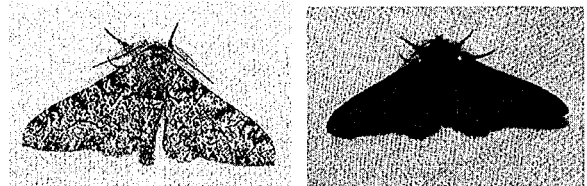
4 Parts of Natural Selection

Overproduction
Genetic Variation
Struggle to Survive
Differential Reproduction

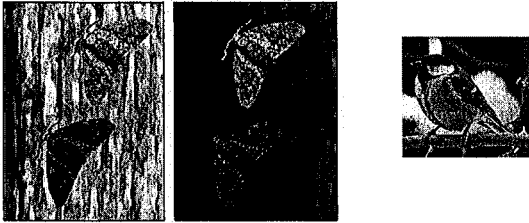
Overproduction



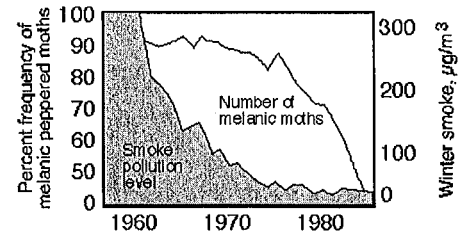
Genetic Variation



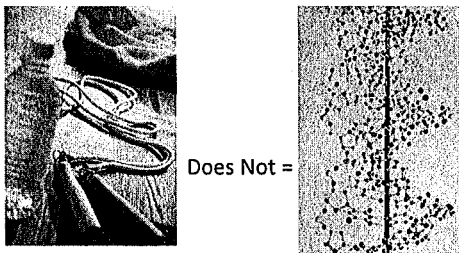
Struggle to Survive



Differential Reproduction



Fitness

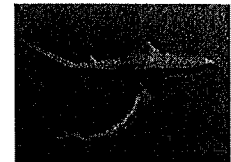


Does Not =

Populations Adapt – Individuals Can't
(They acclimatize)

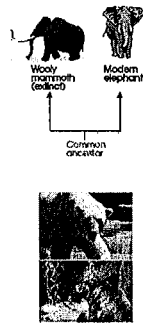
Convergent Evolution

Order	Placental Mammals	Marsupial Mammals
Canine		
Arctid		
Mustel		
Carniv		
Cole		
Cit		
Uta		

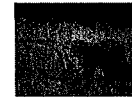
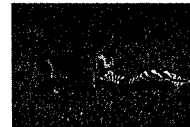


Divergent Evolution

- Adaptive Radiation



Coevolution



Artificial Selection

