Cheatography

Biodiversity Cheat Sheet by Becky B (Beckyb9) via cheatography.com/141887/cs/30508/

What is Biodiversity?

Biodiversity is a term used to describe the enormous **variety** of life on Earth. It can be used more specifically to refer to all of the species in one **region** or **ecosystem**. Biodiversity refers to every **living** thing, including plants, bacteria, animals, and humans.

Biodiversity components

Ecological diversity	Biomes, Bioregions, Landsc- apes, Ecosystems, Habitats, Niches, Population
Organismal diversity	Kingdom, Phyla, Families, Genera, Species, Subspe- cies, Population, Individual
Genetic diversity	Population, Individual, Chromosome, Genes, Nucleotides

Convation of Biodiversity

Convention on Biodiv-	www.cbd.int
ersity link	
Set up in 1988 by United	Have a group
Nations Environnent	of experts and
Programme (UNEP)	scientists

Need to share costs between developed and developing countries

It represents a dramatic step forward in the conservation of biological diversity, the sustainable use of its components, and the fair and equitable sharing of benefits arising from the use of genetic resources.

1992- 1993 received 168 signatures committing to change

Ecological diversity

The variation in both terrestrial	Looking	
and aquatic ecosystems.	at	
Ecological diversity can also take	diversity	
into account the variation in the	at a	
complexity of a biological	broder	
community, including the number	scale	
of different niches, the number of		
and other ecological processes.		



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Ecological diversity (cont)

Has a wide range of different species	Can be within a very small area	
Lies a wide serves of		
Bimoes	Grassland	
guish between different	Moors, Chalk	
Can be dificult to distin-	Wetland,	
conserving diversity		
The approuch we now use to look at		

Organismal diversity

About the number and types of different individual species Classification of species into groups Full taxonomic diversity Linked to lineage Species Names are meant to represent their decent. Understanding about species.

Genus name change

Example of a Tomato plants name change and how using linage can get confusing 1753: *Linnaeus-* **Solanum** *lycopersicum* 1768: *Miller-* **Lycopersicon** *esculentum* 1881: *Karst- Lycopersicon* **lycopersicum** 1974: *Nicolson- Lycopersicon* **lycopersicum** 1983: *Lycopersicon esculentum* (Miller) 2001: Peralta & Spooner- Genetics put it in the **Solanum** genus **Ongoing conflict with the name- including in the literature**

Genetic Diversity	
What makes a	How does one
species the	individual differ from
species it is?	another?
Can be a different	This is why Donkeys
number of	and Horses can't
Chomesones	always mate

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Benefits of genetic diversity

- Different varieties of wheat:
- > Environmental preferences
- > Seasonal preferences (winter)
- > Heat and drought tolerance
- > Yield
- > Resistance to disease or pests
- > Protein content

Utilise wild and	Genetic breeding
alternative	and/or Genetic Modifi-
varieties	cation

Genetic Subspecies of Tiger	
Genetic tests 2004	Identified 6 subspecies of tigers (and 3 extinct)
Geographic isolation and morphological characteristics	
Bengal tiger, Amur tiger, South China tiger, Sumatran tiger, Indochinese tiger, and Malayan tiger	
Split around 100,000 years ago	natural selection to adapt to different habitats.

Very little gene flow between subspecies

Conervation can be hard

Can't save every species	Need to prioritise
Different threats	Some might be threatened by land use other by poaching. Need to focus on one problem rather than multiple
If fousing on one Subspecies you don't have to travel as much as if you looked at the whole spieces	Which is the most beneficial to save

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