

# Biogeography. Lecture 32

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# Outline

## Biogeography of the World Biogeography of Africa



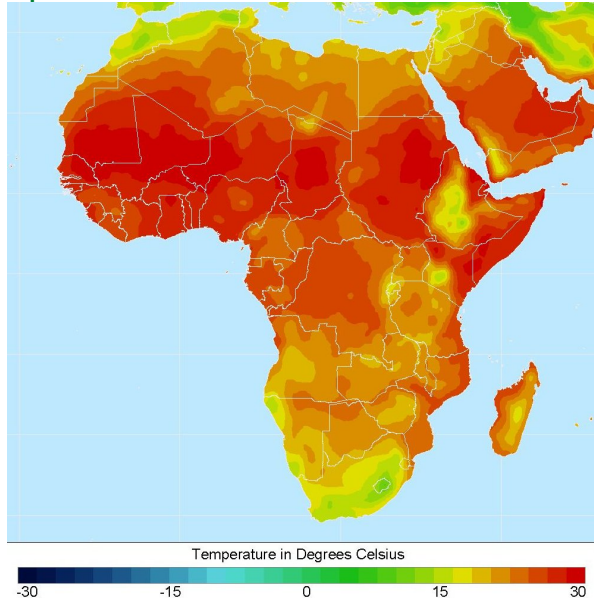
# Biogeography of the World

## Biogeography of Africa

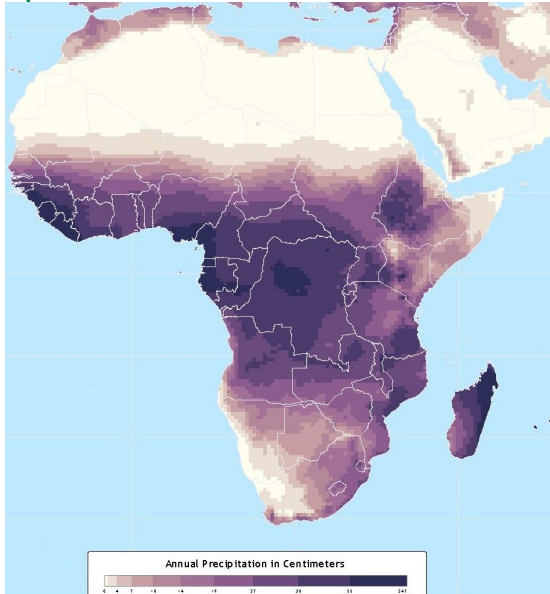




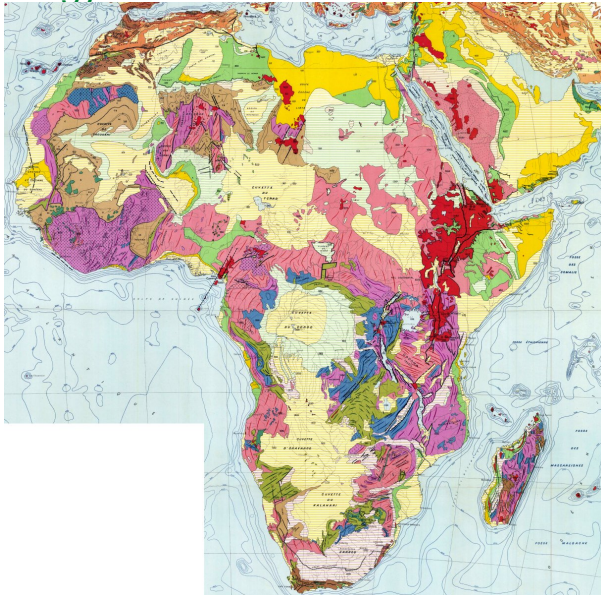
# Africa: temperatures



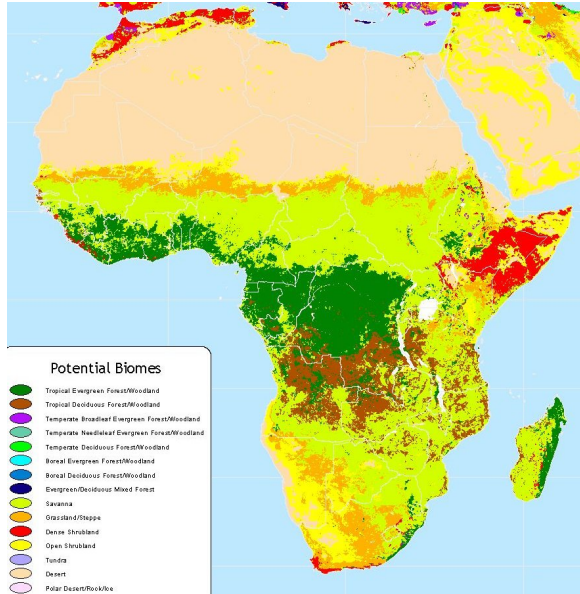
# Africa: precipitation



# Africa: geology



# Africa: potential biomes





# Africa: biogeographical regions



# Africa: 8 biogeographical regions

1. Sahara
2. Northern savanna belt
3. Ethiopian highlands
4. Kongo forests
5. Eastern savannas
6. Kalahari and other southern deserts
7. Cape
8. Madagascar



# Africa regions: the most significant bio-markers

1. **Sahara:** date palm (*Phoenix dactylifera*), dum palm (*Hyphaene*)
2. **Northern savanna (Sudan and Guinea) belt:** African *Acacia* trees, oryx antelopes (*Oryx*) and cheetah (*Acinonyx jubatus*)
3. **Ethiopian highlands:** gelada baboon (*Theropithecus gelada*) and walia ibex (*Capra walie*)
4. **Kongo forests:** three species of anthropoid apes, *Gorilla gorilla* (*Gorilla beringei* occurs in the next region) and *Pan troglodytes* and *Pan paniscus* and hornbill birds (*Bucerotidae*).
5. **Eastern great savannas:** the Great African Grassland fauna ("Safari" fauna) including African elephants (*Loxodonta africana*), lions (*Panthera leo*), giraffes (*Giraffa camelopardalis*) and rhinos (*Ceratotherium* and *Diceros*). This fauna has a lot of connections with Old World faunas (except Australia).
6. **Kalahari and other southern deserts:** *Welwitschia mirabilis*, unique gymnosperm, also aloe (like *Aloe arborescens*) and cactus-like spurge (*Euphorbia*)
7. **Cape:** amazing diversity of plant species, especially from Protea family (*Proteaceae*).
8. **Madagascar:** indri (*Indri indri*), tenrecs (*Tenrecidae*), giraffe weevil (*Trachelophorus giraffa*), panther chameleon (*Furcifer pardalis*), pygmy chameleon (*Rhampholeon*), Lac Alaotra bamboo lemur (*Hapalemur alaotrensis*), crowned lemur (*Eulemur coronatus*), fossa (*Cryptoprocta ferox*), Verreaux's sifaka (*Propithecus verreauxi*), Ward's Flycatcher (*Pseudobias wardi*), Crested Drongo (*Dicrurus forficatus*).



# Summary for Africa

- ▶ High, uniform and dry continent
- ▶ Homeland for the majority of recent plant and animal groups (“tropical pump”)



# For Further Reading



A. Shipunov.

*Biogeography* [Electronic resource].

2014—onwards.

Mode of access:

[http://ashipunov.info/shipunov/school/biol\\_330](http://ashipunov.info/shipunov/school/biol_330)



Africa.

<http://en.wikipedia.org/wiki/Africa>

