

ZEOGRAPHICAL REGION

Prof.Nuzhat Jahan
Department Of Zoology
Karim City College

Faunal composition of various zoogeographical regions



Endemic families

1. *Hippopotamidae (hippopotamus)*
2. *Orycteropidae (Aard Varks)*
3. *Chrysochloridae (Golden moles)*
4. *Anamoluridae (flying squirrels)*
5. *Giraffidae (giraffs)*
6. *Potamagolidae (otter shrew)*
7. *Marcoscelidae (elephant shrews)*
8. *Pedetidae (spring hass)*
9. *Thyronomyidae (cane rats)*
10. *Ctenodactylidae (Gundis)*
11. *Petromuridae (rock rats)*
12. *Bathyergidae (sand burrowing rodent)*

Faunal composition of various zoogeographical regions



Birds

- ❖ Birds are very numerous in this region .
- ❖ Cuckoos, hornbills, woodpeckers, king fishers, bee eater, weaver birds, orioles, owls, goat suckers, storks, pigeons, parrots, pheasants, sunbirds, guinea fowls, secretary birds, ostriches etc.
- ❖ Six families are unique to this region these are including ostriches, secretary birds, hammer heads, crested touracos, mouse birds, and helmet shrikes.

Faunal composition of various zoogeographical regions



Reptiles

- ❖ Reptilian fauna very much rich.
- ❖ Turtles, agamid, crocodiles, monitor lizard, python, vipers boas etc.
- ❖ Of the total 50 species of chameleons, 46 species are found in this region .
- ❖ Particularly Girdled lizards to this region.

amphibians

- ❖ Amphibians are less distinctive.
- ❖ Toads and frogs are numerous .
- ❖ Tailed amphibians and tree frogs are absent in this region.
- ❖ Only notable family dectylethridae (xenopus ,clawed toad) is special for this region.

Faunal composition of various zoogeographical regions



Affinities

- In number of unique families point of view, it is the second to the Neotropical region .
- Ethiopian region shares with Palaearctic , families of Jerboas, coneys, dormice and wild horses .
- It differs markedly fro this region in being without moles, beaver, bears and camels .

Faunal composition of various zoogeographical regions



Australian region

- ❑ Australian region covers Australia, Tasmania, New guinea and the few of smaller islands of Indonesian archipelago.***
- ❑ Newzealand and pacific islands are not included in this region .***
- ❑ Many workers prefer to treat them separately as ancient island and oceanic island respectively.***

Faunal composition of various zoogeographical regions



climate

- ❑ Australian region is partly tropical and partly temperate .***
- ❑ Southern Australia is of temperate climate.***
- ❑ Eucalyptus and mixed hard wood forests .***
- ❑ Interior Australian continent consists of hot, arid plains and deserts .***

Faunal composition of various zoogeographical regions



physical and geographical features

- *The region is unique having no land connection.*
- *New guinea and northern part of Australia are tropical, with high summer temperature.*
- *Covered with luxuriant tropical rain forests.*
- *Southern side Australia is of temperate climate with woody forests and deserts.*

Faunal composition of various zoogeographical regions



Zoological characteristics

- *There is absence of higher placental mammals.*
- *There is presence of a variety of primitive form of mammals , primitive forms include mammals such as monotremes (egg laying mammals), marsupials (pouched mammals) .*
- *Among birds such as Cassowaries, emus, tooth billed ,pigeon, birds of paradise .*
- *Among reptiles such as scale footed lizard .*
- *Among aquatic animals like neoceratodus (lug fish)fresh water mussel trigonia, and mountain shrimp (anaspids).*

Hence Australian region is often referred to as the “veritable museum of archaic animals

Faunal composition of various zoogeographical regions



Over all Comparative fauna to zoological aspects of the region

Australian

- ❖ *Australian region has 134 families of terrestrial vertebrates of which 30 are unique to this region.*
- ❖ *30 families are endemic to this region.*
 - a. *8 of mammals*
 - b. *17 of birds*
 - c. *3 of reptiles*
 - d. *2 of amphibians*

Total nine mammals families there is only one family of placental mammals other 8 are monotremes. The dominant mammalian fauna consists of marsupial mammals .

Faunal composition of various zoogeographical regions



Unique families of the mammals to Australian region

- **Two families of monotremes are duckbill platypus and echidna**

Birds

- ❖ **Ten families of birds are unique to Australian region are flightless birds are emus and cassowaries, honey suckers, lyre birds, bower birds, tooth billed pigeons, birds of paradise.**
- ❖ **Absence of pheasants, woodpeckers, barbets and finches.**

reptiles

- ❖ **In Australian region reptiles, only moderately varied and only two families are exclusively found**
 - Carettochelydidae**
 - Pygopodidae**

Faunal composition of various zoogeographical regions



- ❖ *250 species of small lizard*
- ❖ *Among large lizards komodo dragons, a varanid , only is notable.*
- ❖ *Crocodiles occur in tropical parts of the region*

Amphibians

- ❖ *Australia is the only region in which the common toad are absent and tail amphibians are also absent.*
- ❖ *Common frogs and tree frogs are represented by 100 species.*

fishes

- ❖ *Fresh water fauna is very poor .*
- ❖ *Only 3 genera of the lung fish is found in rivers of Queensland.*

Faunal composition of various zoogeographical regions



Neotropical region

It includes south America ,most of Mexico and the West indies.

Climate

- This region is mostly tropical but the southern region extends into the south temperate zone.*
- The Amazon river basin has a high rain fall all the year.*
- Tropical forests*
- Total absence of deserts .*
- Treeless grassy plains*
- Temperature fluctuations in some parts.*
- Mountains*
- Severe climate in some part of extent o degree*

THANK YOU