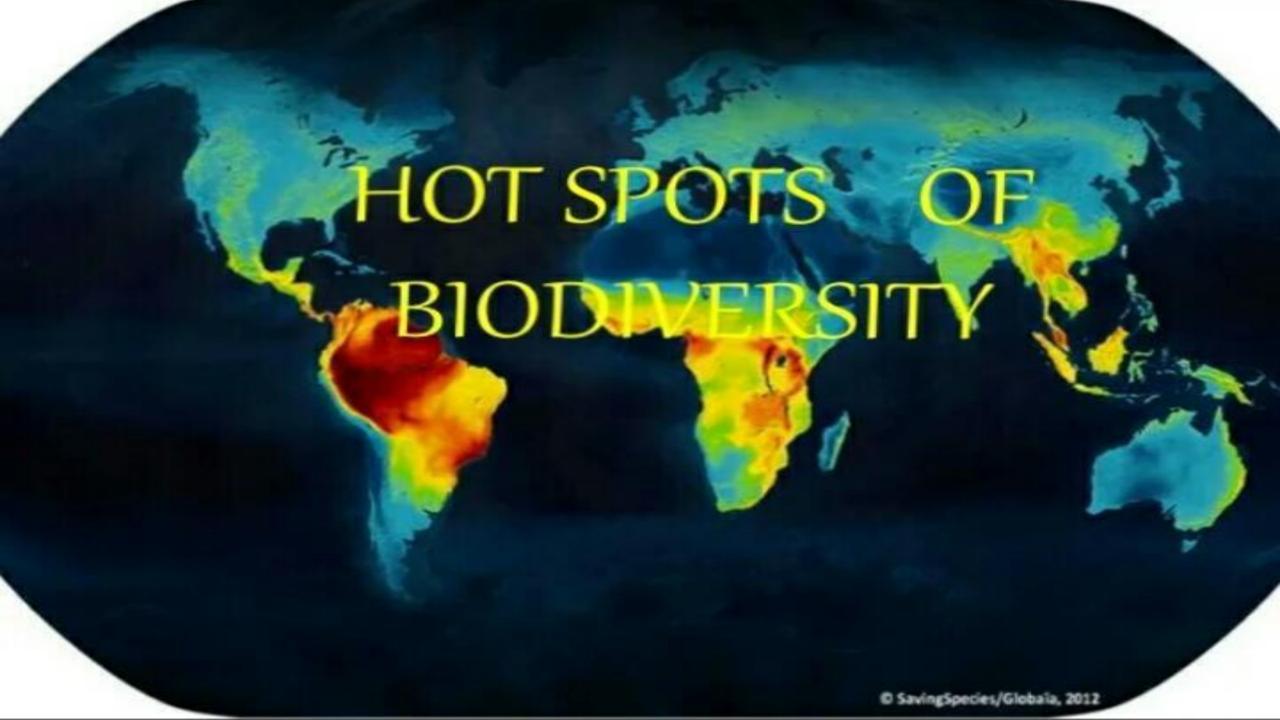
Hot spots of biodiversity

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What's a Hotspot?

A biodiversity hotspot is a biogeographic region that is both a significant reservoir of biodiversity and is threatened with destruction. The term biodiversity hotspot specifically refers to 35 biologically rich areas around the world that have lost at least 70 percent of their original habitat.

HISTORY

British biologist Norman
 Myers coined the term "biodiversity hotspot" in 1988 based on plant endemism and serious levels of habitat loss.



 1990 Myers added a further 8 hotspots, including 4 Mediterraneantype ecosystems

HISTORY

 Conservation International (CI), USA adopted Myers' hotspots as its institutional blueprint in 1989



- 1996, undertake a reassessment of the hotspots concept
- In 1999, CI identified 25 biodiversity hotspots in the book "Hotspots: Earth's Biologically Richest and Most Endangered Terrestrial Ecoregions".
- In 2005 CI published an updated titled "Hotspots Revisited: Earth's Biologically Richest and Most Endangered Terrestrial Ecoregions" and mentioned 35 biodiversity hotspots

BASIC CRITERIA

According to CI, to qualify as a hotspot a region must meet two strict criteria:

- It must contain at least 1,500 species of vascular plants (> 0.5% of the world's total) as endemics
- It has to have lost at least 70% of its original habitat

Important hot spots,

- 1.western Ghats and Sri Lanka
- 2.Himalaya
- 3. Mediterranean basin
- 4.Indo-Burma
- 5. Horn of Africa
- 6.Madagacsar and Indian ocean islands
- 7.Sundaland
- 8. Forests of Australia
- 9. Caucasus
- 10. Mesoamerica

BIODIVERSITY HOTSPOTS IN INDIA

- I. Himalaya: Includes the entire Indian Himalayan region (and that falling in Pakistan, Tibet, Nepal, Bhutan, China and Myanmar)
- 2. Indo-Burma: Includes entire North-eastern India, except Assam and Andaman group of Islands (and Myanmar, Thailand, Vietnam, Laos, Cambodia and southern China)
- 3. Sundalands: Includes Nicobar group of Islands (and Indonesia, Malaysia, Singapore, Brunei, Philippines)
- 4. Western Ghats and Sri Lanka: Includes entire Western Ghats (and Sri Lanka)

Himalaya



Red Panda (Ailurus fulgens)



Yak (Bos mutus)



Tibetan wild dog (Cuon alpinusa)



Snow leopard (Uncia uncia)



Bar-headed Goose (Anser Indicus)



Great hornbill (Buceros bicornis)



Black-necked crane (Grus nigricolliss)



White-crested Kalij Pheasant (Lophura leucomelanos hamiltonii)



Himalayan newt (Tylototriton verrucosus)



Himalayan toad



Himalaya Paa Frog



Himalayan agama (Paralaydakia himalayana)

Indo-Burma



Large-antiered Muntjac (Muntiacus vuquangensis)



Grey-shanked douc langur (Pygothrix cinereo)



Annamite striped rabbit (Nesologus timminsi)



leaf deer (Muntiacus putacensis)



Saola (Pseudoryx nghetinhensis)



Racket-tailed Treepie (Crypsirina temia)



Giant ibis (Thaumatibis gigantea)

Fauna of Western Ghats



Lion-tailed macaque (Macaca silenus) Flagship species of Western Ghats



Malabar large-spotted civet (Viverra civettina)



Nilgiri tahr (Nilgiritrogus hylocrius)



Nilgiri langur (Trachypithecus johnii)



Nilgiri wood pigeon (Columba elphinstonii)



Malabar Parakeet (Psittocula columboides)



White-bellied treeple (Dendrocitta leucogastra)



Malabar barbet (Psilopogon malabaricus)



Mugger crocodile (Crocodylus palustris)



Purple frog or pig-nosed frog (Nasikabatrachus sahyadrensis)



Malabar gliding frog or Malabar flying frog (Rhacopharus malabaricus)



Denison's barb, Miss Kerala, or roseline shark (Sahyadria denisonii)

Reasons for biodiversity loss in hotspots

- Habitat destruction
- Resource mismanagement
- Poaching
- Climate change

THANK YOU!!!!!!