Zoo Outreach Organization (ZOO) promotes Conservation Education in South Asia

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Asian Zoo Educators' Conference 2013



Zoo Outreach Organization

A non-governmental organization, Registered Society with strong links to government organisations.

Founded in 1985 by Ms. Sally Walker with funds from the then Department of Environment, Government of India.

Focus on biodiversity conservation, wildlife welfare, research and education.



ZOO's Objectives are to:

... Provide technical and educational support for zoos.

...Enhance the public image of zoos.

... Liaise between local, national, international interests for the benefit of Indian zoos



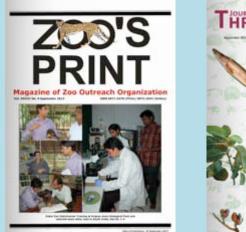
... Lobby for organizations and legislation affecting zoos and animal welfare in zoos.

ZOO's Major Activities

IUCN Networks: Hosting IUCN Specialist Groups in South Asia: Conservation Breeding S.G., Reintroduction SG, Primate SG, Chiropter SG, Insect SG, FFSG.

Z.O.O. Networks: Education, Amphibian, Reptile, Rodentia & Insectivora, Climate Change and South Asian Zoo Association for Regional Cooperation *SAZARC*.

Publications: <u>ZOO's PRINT</u> Magazine <u>Journal of Threatened Taxa</u> & various Network Newsletters.

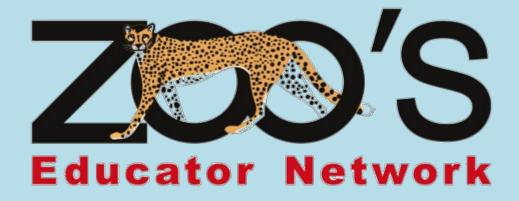




ZOO's Education activities

One of ZOO's primary projects and networks is *zoo and wildlife conservation education* since its inception.

ZOO's Educator Network (ZEN)



ZOO's Education activities

- Raising funds for education
- Producing Theme based Educational Materials
- Strong emphasis on Non-charismatic Megavertebrates, "mini-vertebrates", Invertebrates and selected plants.
- Such as bats, rodents, amphibians, reptiles, vultures, butterflies, etc.





Education Materials

Z.O.O. develops and supplies educational materials free of cost to teachers, NGO's, GO's, anyone who requests them for kids of all ages attending programs. They are also used for Teacher Training workshops in South and South East Asia.



ZOO promotes International animal events in South Asian Region.

Some previous events promoted:

- Amphibian Ark-Global Leapfrog event on the eve of 2008
- Leaping Ahead of Extinction: A celebration of good news for amphibians in 2012
- Five For Frogs
- Year of the Bat 2011-2012: On theme "Save Bats to Save the Planet"
- UNEP-World Environment Day
- UN Decade on biodiversity 2011-2020





wamphibianarkon







Year of the Bat 2011-2012



United Nations Decade on Biodiversity

Some amphibian materials

Beddome's Caecilian (LC)

FR06S

BUT

ALL FROGS ARE AMPHIBIANS,

PHIBIANS ARE NOT

sicological Pro

Small Tree Frog

Dusky Torrent Frog

Indian

計加計 (LC) (EN

Terai Cricket Frog (LC)



AMPHIBIAN Biodiversity Crisis... COUNTROWN 2014

 Moving
 From words to action

 2010 is the official Year of Biodiversity

 Image: 1

 Image: 1
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+ Bret

amphibian ark

2010 - SAVE BIODIVERSITY - FROG







Some bat materials

What we can do to protect leats? Learn shout bets. Durit form leats. Tail others about the coortexts of bats. Dis not distant trees, dress, buildings that have

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... by knowing pros and cons, assets and threats to bats ... nature's great helper

There are very good reasons Conservation 21 is set just for the past of bats "Dr is for the and have and or had period of former beingt at well.

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acclinated and more accesses; role that keeps the acceptance in balance and one seeded for approximated and harmoultured 1888. They are personalled

> interne agrid Him. fe Build A Verripien But

Xtraordinary Threats to **Insect bats** Young Cave entrances blocked or cave Zoologists modified for human use Habitats

... understand the great value of bats and help then by learning have to conserve them. threatened by mining and REPAIR INTS Same bate that bit ments and general patient are an useful that people muster than quarrying Buildings. temples, caves are homes for insect one their area to making special bats. People use used for them

smoke to run them States setting days have much larts help at help who leasant there are people out. who devote their loss to studying late Let this toy

Threats to Fruit bats Hunted for food and medicine. handout lead you to learning more should these meaning persecuted as pests atomatic. The world would be a Far parter place without lasts. cut for building What we can do to

Habitat destroyed due to human activities Degraded habitate support very

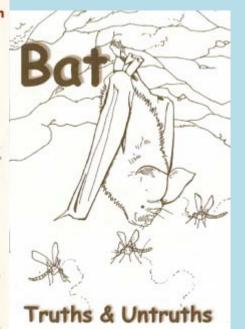
few bats

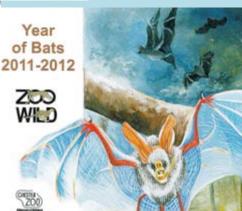
Roost trees

roads

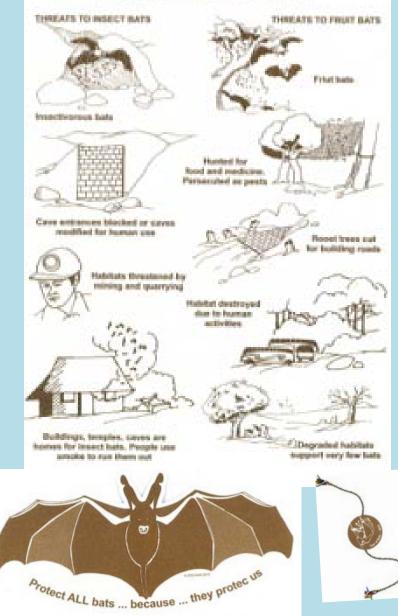
Other Threats Smoking buts out of their caves

Smoking bats out of temples



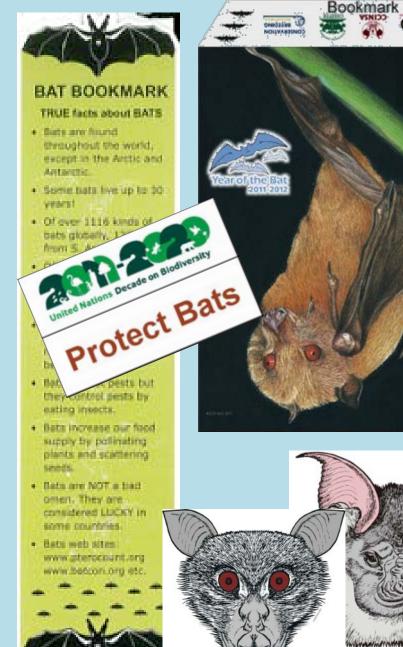


END OF YEAR OF THE BAT Threats remain



MORE bat materials





6

Pteropus melanotus

Hipposideros armiger

Vulture Education

India has nine species of Vultures: Oriental White-backed Vulture (*Gyps bengalensis*), Slender billed Vulture (*Gyps tenuirostris*), Long billed Vulture (*Gyps indicus*), Egyptian Vulture (Neophron percnopterus), Red Headed Vulture (Sarcogyps calvus), Indian Griffon Vulture (Gyps fulvus), Himalayan Griffon (Gyps himalayensis), Cinereous Vulture (Aegypius monachus) and Bearded Vulture or Lammergeier (Gypaetus barbatus).

White-backed, Slender billed and Long billed Vulture declined drastically over the past decade. The decline of Gyps genus in India has been put at 97% by 2005.

Status: Critically Endangered by IUCN. Wildlife (Protection Act) 1972-Schedule I species.

Source: Action Plan for Vulture Conservation in India, 2006 by MoEF.





Ecological Significance of Vultures

Carrion remover and scavenging on animals-helps environment clean

Main reason for decline:

Diclofenac (veterinary usage) Others are Poisoning Electrocution by power lines Drowning in farm water reservoirs Habitat loss Variable food supply Deliberate persecution (eg. shooting) Kite-flying Starvation of young ones





Z.O.O. has been promoting vultures since 1991 up to International Vulture Awareness Day

Vulture Awareness Activities

ZOO conducted a Vulture Survey in Indian Zoos in 1991 funded by Jacksonville and followed by vulture conservation education programmes in India long before the current vulture crisis, and again for South Asia in 2004 & 2008.

International Vulture Awareness Day was celebrated around the world on 1 September *to highlight vulture conservation and awareness.* The Birds of Prey Programme in South Africa and Hawk Conservancy Trust in England organized it starting in 2010.

For IVAD, ZOO created a South Asiaappropriate education packet for institutions holding these beleaguered birds to use in conducting programmes for visitors and students for IVAD 2012.



Will this be the vultures' "last dance"?



AN INDIAN VULTURE CULTURE Colouring Book of Verse

VULTURE shock!

lture exhibiting the

O vultures ! What will we do ... without you?







Z.O.O. designed and printed **2000** copies of vulture education kits sponsored by Conservation Breeding Specialist Group, USA.

Twenty-five invited institutions in the region took advantage of the offer of free packets.

Packets were the usual model of ZOO with informational booklet, flash cards, placard, stickers, etc.



Zoo's celebrating vultures in S. Asia

Central Zoo, Nepal

El sta

Art by student s at the Nat'l Zoo, New Delhi









CULTURE SHOCK VULTURE CULTURE VULTURE SHOCK

VOC Park Mini Zoo, Coimbatore



Museum of Natural History celebrates vultures



Regional Museum of Natural History, Bhopal. Madhya Pradesh



Non-governmental Organisations also teaching about Vultures





Thanks...



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