

CONSERVATION ASSESSMENT AND MANAGEMENT PLAN (CAMP) WORKSHOP PROCESS:

A TOOL FOR RAPID SPECIES
ASSESSMENT

Knowledge-based, catalytic facilitation for conservation

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Zoo Outreach Organisation/CBSG South Asia Coimbatore, South India

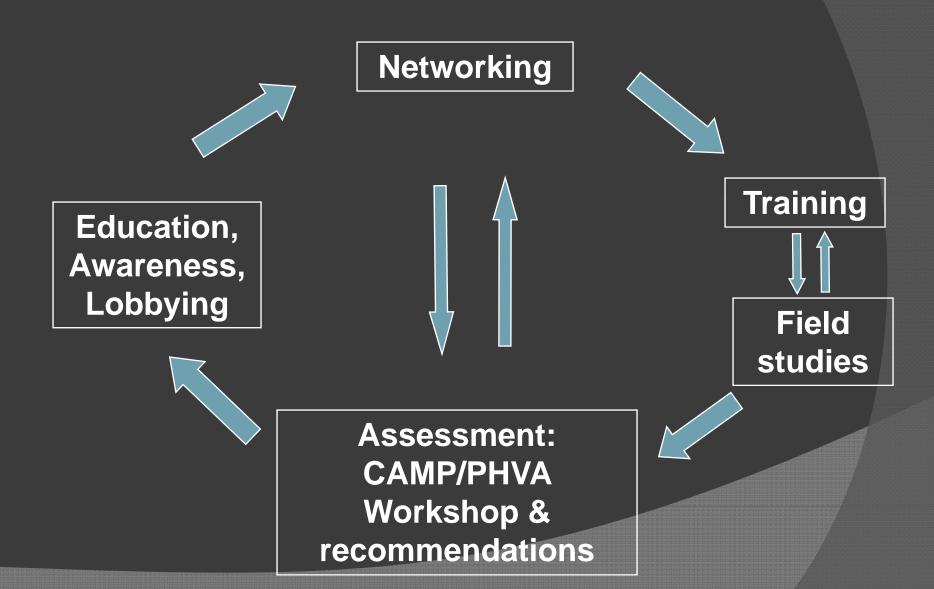




ZOO & its networks use a Conservation Action Formula It has 5 steps

- 1. Networking taxon specialist / species
- 2. Training in Field techniques, taxonomy, captive management, education for each taxon group
- 3. Field surveys follow training to precede as well as follow CAMP workshops & recommendations
- 4. <u>Assessments</u> C.A.M.P. workshops for each taxon group & Report etc. and PHVA
- 5. Education / awareness / lobbying- follow up CAMP workshops -- three-tiered target groups

Conservation Action Model



STEP 4 of Conservation Action Model

Source for our education programmes and materials

Rapid species assessment using C.A.M.P. and PHVA workshops developed by CBSG

Species Survival

Ecosystem Management

Education and Communication

The World Conservation Union

Environmental Law

Environmental Strategy and Planning

National Parks & Protected Areas

IUCN's Six Commissions

SPECIES SURVIVAL COMMISSION

6,800 volunteers in 179 countries provide technical and scientific advice for biodiversity conservation to governments, international conventions, and conservation organizations.

~105 Taxon-based Specialist Groups 5 Disciplinary
Specialist Groups

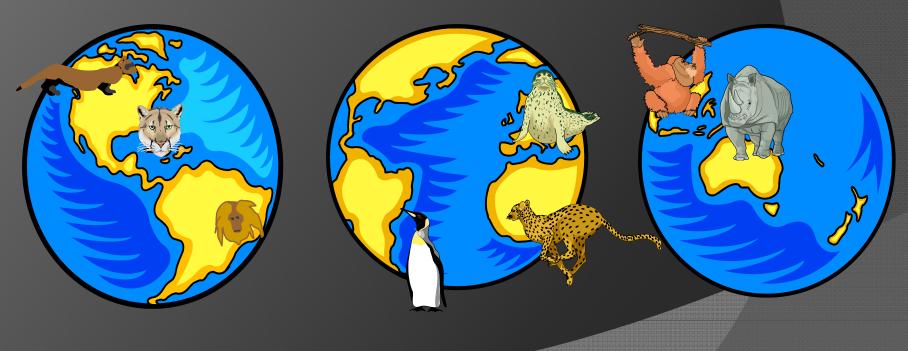
2 Task Forces

Cat
Bear
Cetacean
Hornbill
Cracid
Seabird
Crocodile
Freshwater Fish
Lepidoptera
Cactus & Succulent
Carnivorous Plant
and 90 others

Sustainable Use
Veterinary Medicine
Invasive Species
Reintroduction

Declining
Amphibian
Populations
Declining
Pollinators

CBSG is experienced in dealing with difficult management and conservation issues



Working groups

CONSERVATION ASSESSMENT AND MANAGEMENT PLANS (CAMPS)





AND
POPULATION AND HABITAT VIABILITY ASSESSMENTS
(PHVAS)

CAMPS

PHVAS

Multiple taxa

Uses available data to assess threat

Prioritizes research and management action

Single taxon

Uses available data to assess risk of extinction/probability of persistence

Tests sensitivity to various factors using models

Develops integrated management strategy most likely to lead to population recovery

Identifies new research directions

CBSG WORKSHOP PROCESSES

- Stakeholder participation
- Common ground and agreements
- Common goal: preventing extinction/further biodiversity loss
- Knowledge in experts' heads
- Pooling of resources
- Outside expertise provides unbiased perspective
- Product owned by participants
- CBSG a knowledge-based facilitator

CAMP Workshop Goals

- Review population and habitat status and trends and assign new IUCN Red List categories of threat
- Identify research and management recommendations
- Develop preliminary action plans
- Complete a draft Conservation Assessment and Management Plan document

CAMP Process

- Working groups (taxon based)
- Each group has reference set of draft taxon data sheets
 and a computer with the CAMP database program
- Identify a facilitator, recorder and presenter
- Initially complete one TDS including Red List assessment, then report back to plenary
- Continue in working groups complete all assessments, including Red List assignments and distribution maps
- Form corridor-based groups for action planning
- Complete draft workshop report

Primary Tool: The Taxon Data Sheet

- Scientific designation
- Distribution
- Extent of occurrence and area of occupancy
- Habitat status and trends
- Threats
- Trade
- Population status and trends
- Field studies
- IUCN Red List category of threat
- Research and management recommendations
- Sources and collaborators

IUCN Red List

- The IUCN Red List is a record of the conservation status of wild species.
- The Red List Categories provide an easily and widely understood system for classifying species at high risk of global extinction.
- The latest version (3.1) of the categories and criteria was adopted in February 2000.

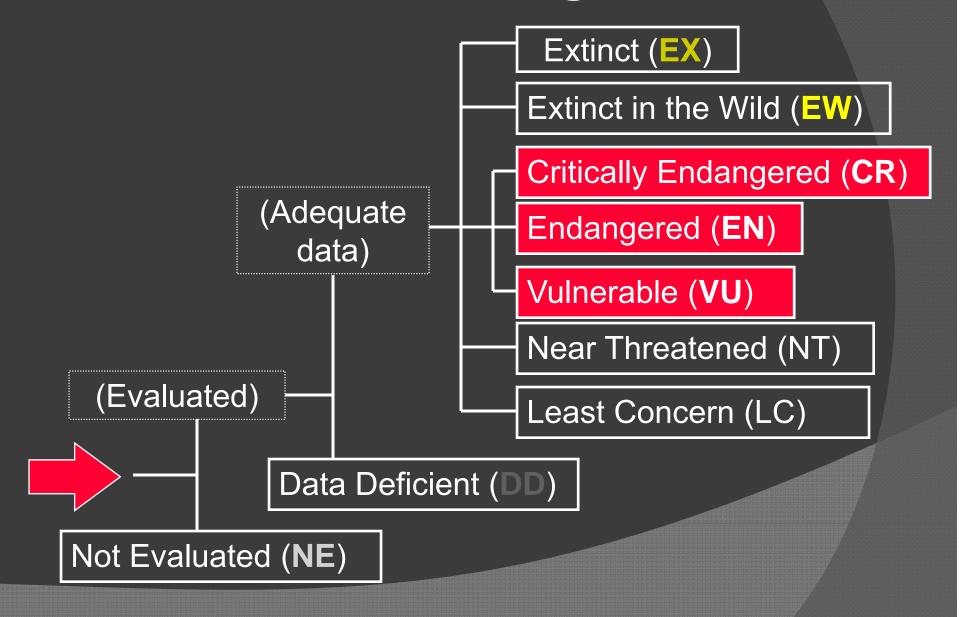
IUCN Red List Categories (3.1)

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Extinct (EX)
Extinct in the wild (EW)
  Critically Endangered (CR)
     Endangered (EN)
       Vulnerable (VU)
Near Threatened (NT)
Least Concern (LC)
Data Deficient (DD)
Not Evaluated (NE)
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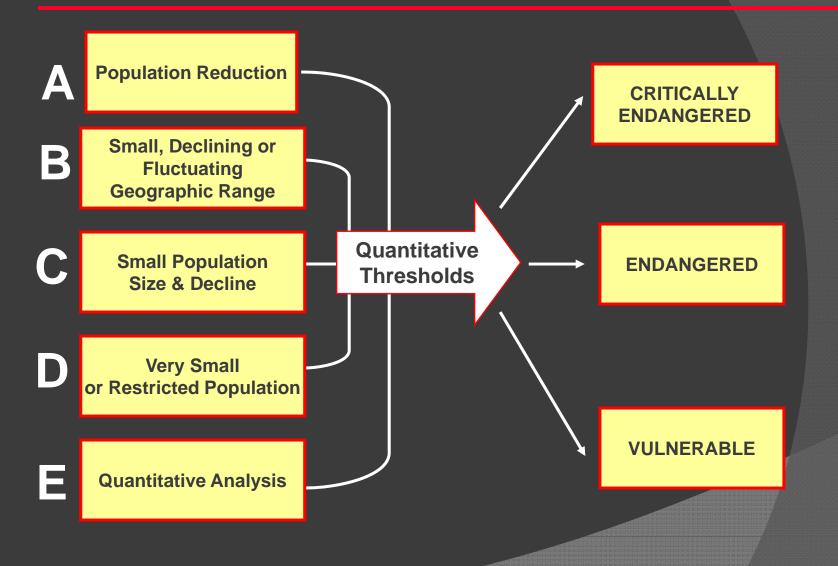
IUCN Red List Categories

- For listing as CR, EN or VU there is a range of quantitative criteria; meeting any ONE of these criteria qualifies a taxon for listing at that level of threat.
- Each taxon must be evaluated against all the criteria.
- Any criterion met must be listed.

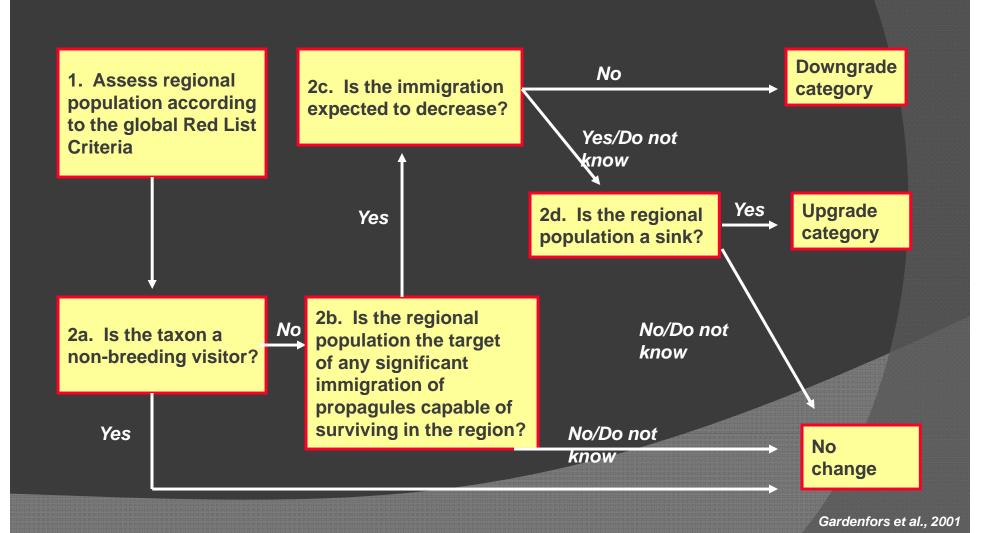
IUCN Red List Categories 2001

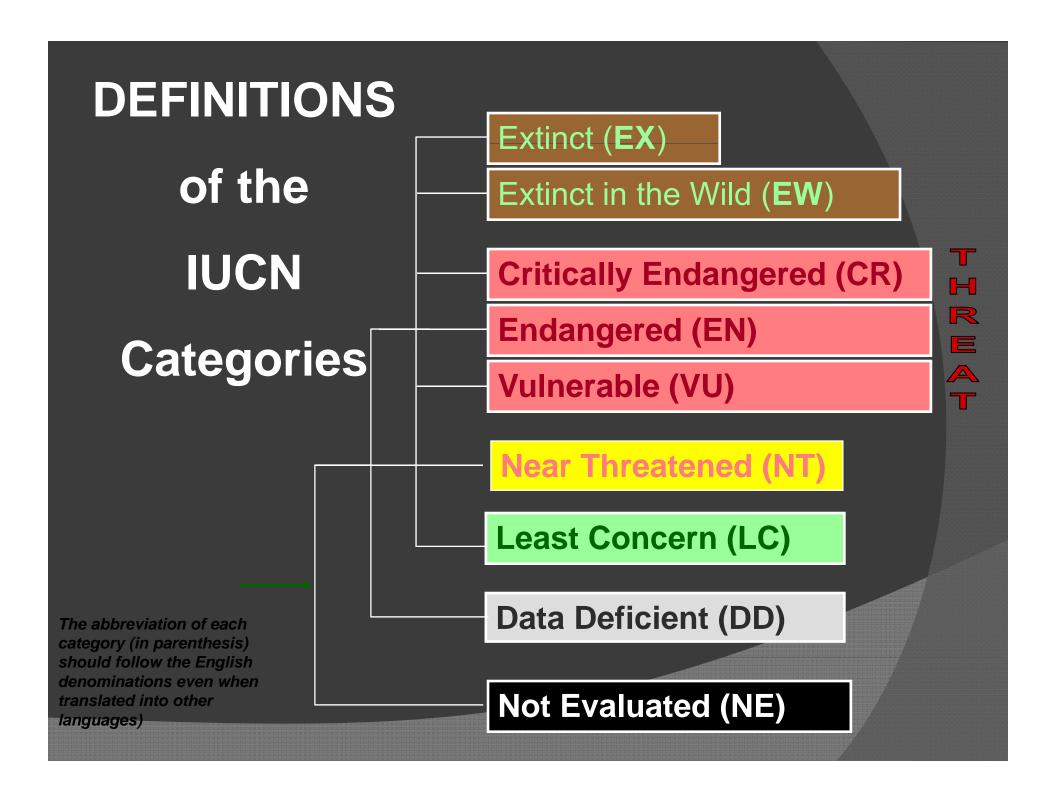


IUCN Red List Criteria



Regional Application of Red List Criteria







Not Evaluated (NE)

A taxon is *Not*Evaluated when it has not yet been evaluated against the criteria.





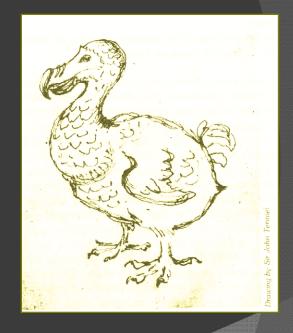
Data Deficient (DD)

A taxon is *Data Deficient* when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status.



Extinct (EX)

A taxon is *Extinct* when there is no reasonable doubt that the last individual has died.



Raphus cucullatus = dodo

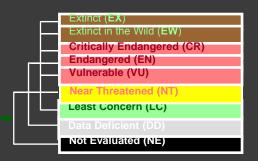


Extinct in the Wild (EW)

A taxon is *Extinct in* the Wild when it is known only to survive in cultivation, in captivity or as a naturalised population (or populations) well outside the past range.



Equus przewalskii = Przewalski's horse

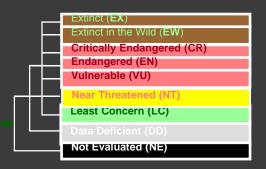


Least Concern (LC)

A taxon is *Least Concern* when it has been evaluated against the criteria and does not qualify for Critically Endangered, Endangered, Vulnerable or Near Threatened.



Bulbucus ibis = Cattle egret



Near Threatened (NT)

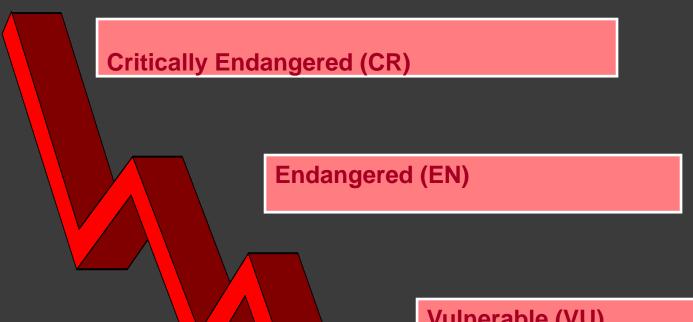
A taxon is *Near Threatened* when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is *close to qualifying* for or is likely to qualify for a threatened category in the near future.





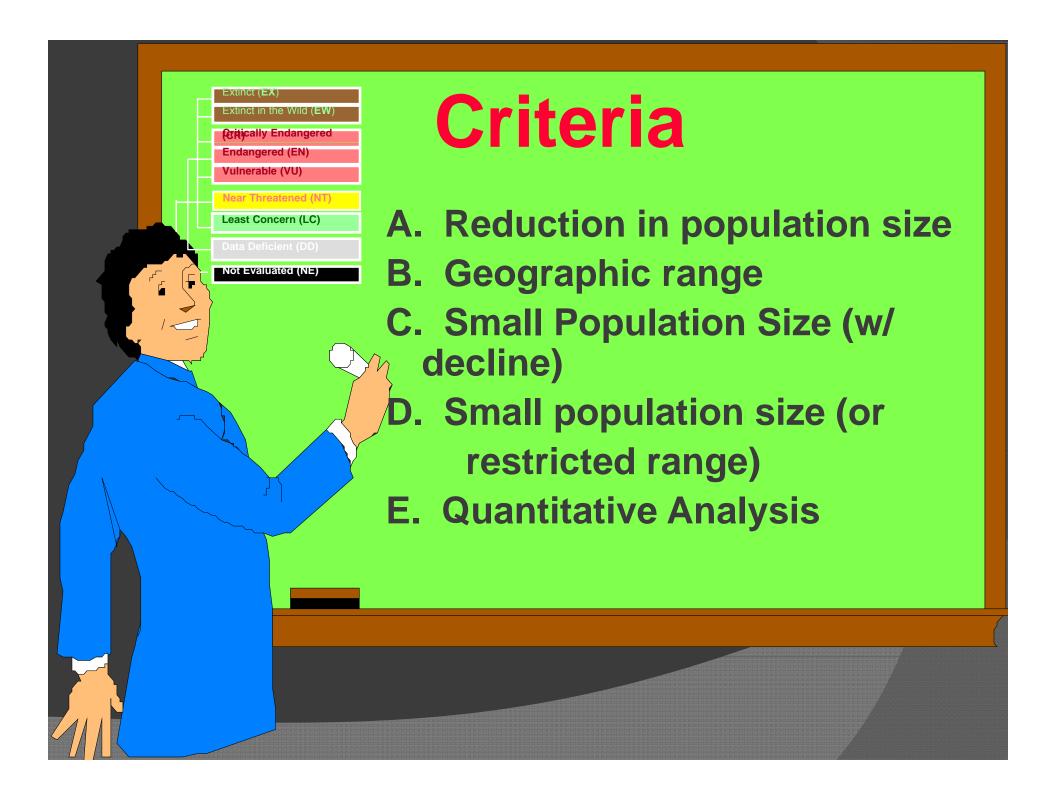




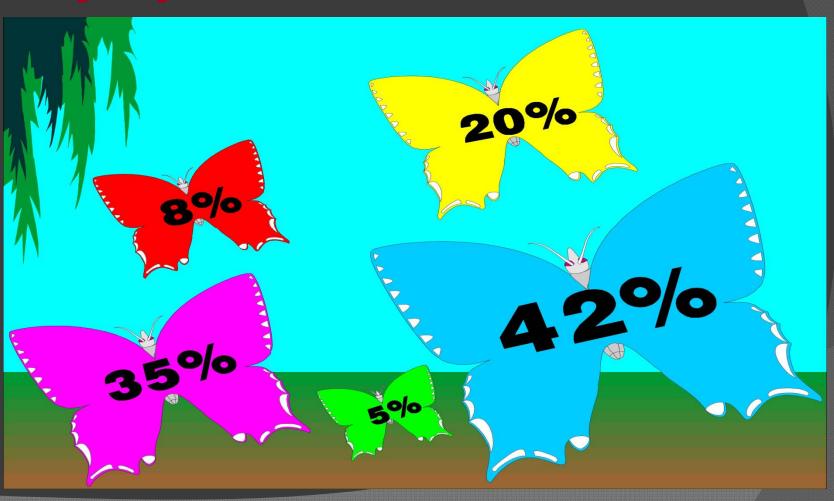


Vulnerable (VU)

(as defined by criteria A-E)

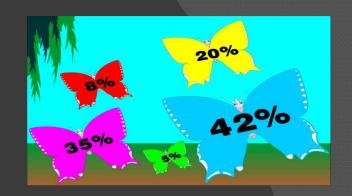


A: Reduction in population size



A1. Reduction in population size

where the causes of the reduction are: clearly reversible AND understood AND ceased



Critically
Endangered Endangered Vulnerable
(CR) (EN) (VU)
= or > 90% = or > 70% = or > 50%

A2. Reduction in population size

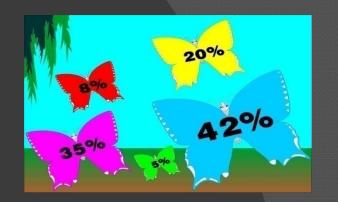
20% A2% 5%

where the reduction or its causes may not have ceased OR be understood OR be reversible

Critically		
Endangered	Endangered	Vulnerable
(CR)	(EN)	(VU)
= or > 80%	= or > 50%	= or > 30%

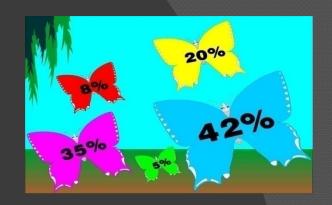
A3. Reduction in population size

projected or suspected to be met within the next 10 years or 3 generations



Critically		
Endangered	Endangered	Vulnerable
(CR)	(EN)	(VU)
80%	50%	30%

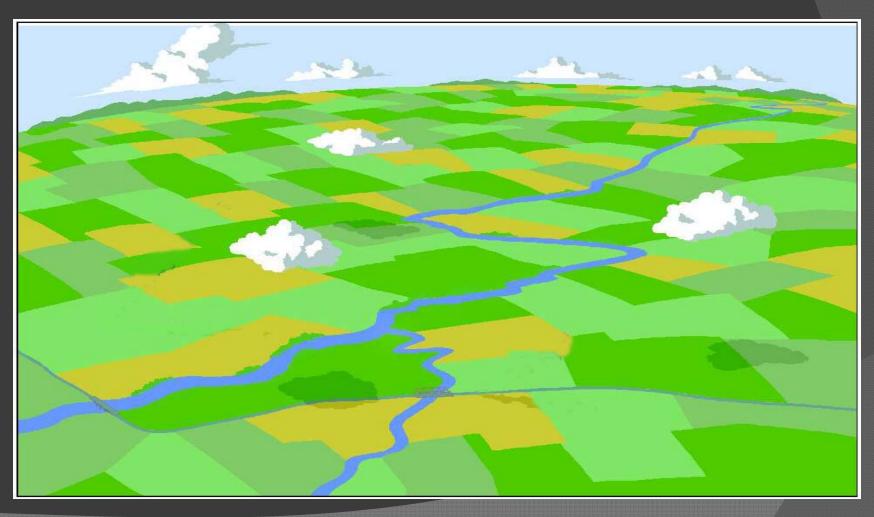
A4. Reduction in population size



over any period of 10 years or 3 generations whichever is longer (up to a maximum of 100 years), where the time period includes both the past and the future, and where the decline or its causes have not ceased

Critically		
Endangered	Endangered	Vulnerable
(CR)	(EN)	(VU)
= or > 80%	= or > 50%	= or > 30%

B: Small Distribution

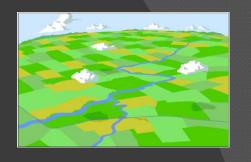


B. Small Distribution +

Decline or Fluctuation

	CR	EN	VU	
1. Extent of Occurrence	<100km ²	<5 000km²	<20 000km ²	
Or 2. Area of Occupancy	<10km²	<500km ²	<2 000km²	
+ 2 of the following				

B: Small Distribution +



a: Severely fragmented or known to exist at only 1 (CR) or ≤5 (EN) or ≤10 (VU) locations

Severe Fragmentation

or

Few Locations

CR =1

EN ≤5

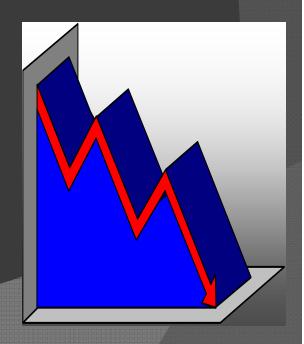
VU ≤10

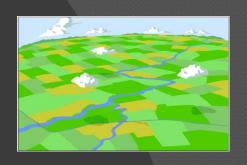
B: Small Distribution +



b. Continuing decline, observed, inferred or projected, in any of the following:

- (i) extent of occurrence
- (ii) area of occupancy
- (iii) area, extent and/or quality of habitat
- (iv) number of locations or subpopulations
- (v) number of mature individuals.

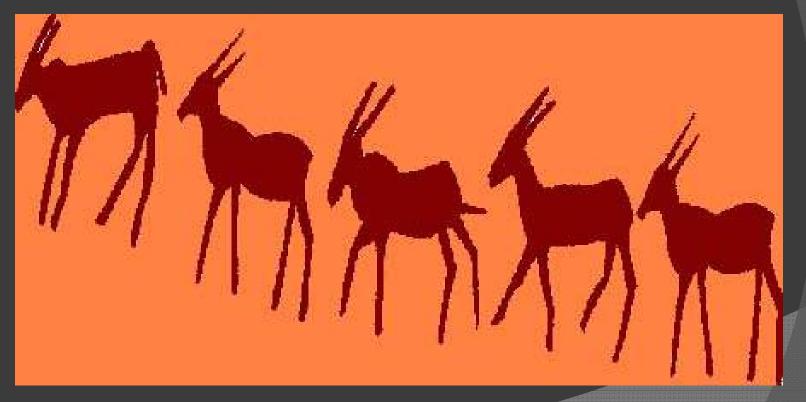




c. Extreme fluctuations in any of the following:

- extent of occurrence
- (i) (ii) area of occupancy
- (iii) number of locations or subpopulations
- (iv) number of mature individuals.

C: Population size (and decline)



C: Population size



	Critically Endangered (CR)	Endangered (EN)	Vulnerable (VU)
estimated to be less than	250	2'500	10'000

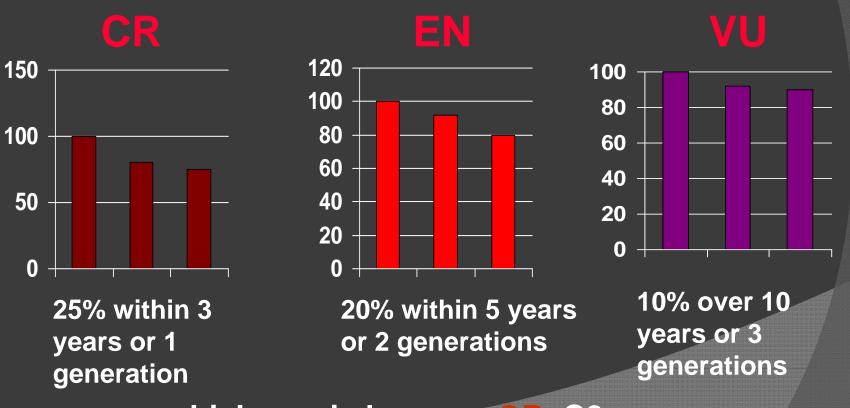
... mature individuals AND either C1 OR C2

C: Population size

... estimated to number less than (mature individuals) and either (C1 or C2) ...



c1. An estimated continuing decline of at least...



...whichever is longer, OR C2

C: Population size

... estimated to number less than (mature individuals) and either (C1 or C2) ...



C2. A continuing decline, observed, projected, or inferred, in numbers of mature individuals AND at least one of the following: (a-b)

C: Population size

... estimated to number less than (mature individuals) and either (C1 or C2) ...



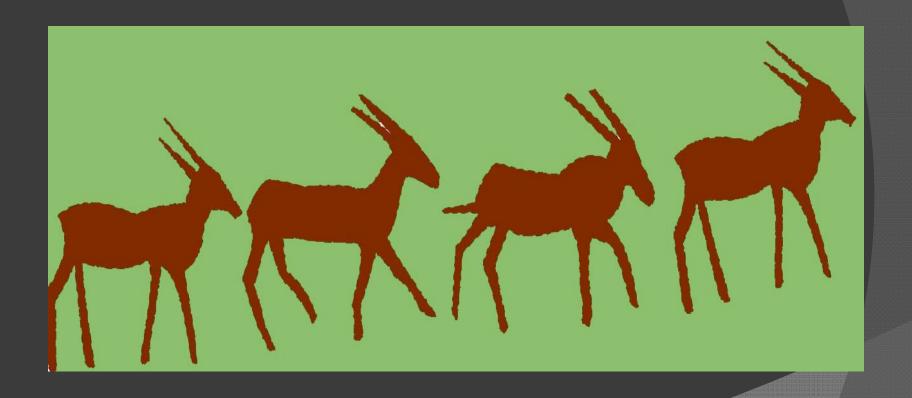
a) Population structure in the form of one of:

	Critically Endangered	Endangered	Vulnerable
(i) no subpopulation estimated to contain more than	(CR)	(EN)	(VU)
(mature individuals), OR	50	250	1,000
(ii) at least (%) of mature individuals are in one	90%	95%	100%
subpopulation			

OR

(b) Extreme fluctuations in number of mature individuals.

D: (Small) Population size



D: (Small) Population size



D1: Population size	Critically Endangered (CR)	Endangered (EN)	Vulnerable (VU)
Mature individuals estimated to number less than	50	250	1,000

D: (Small) Population size

(only for "Vulnerable")



VU- D2. Population with a very restricted area of occupancy (typically less than 20km²) or number of locations (typically 5 or less)

E. Quantitative analysis

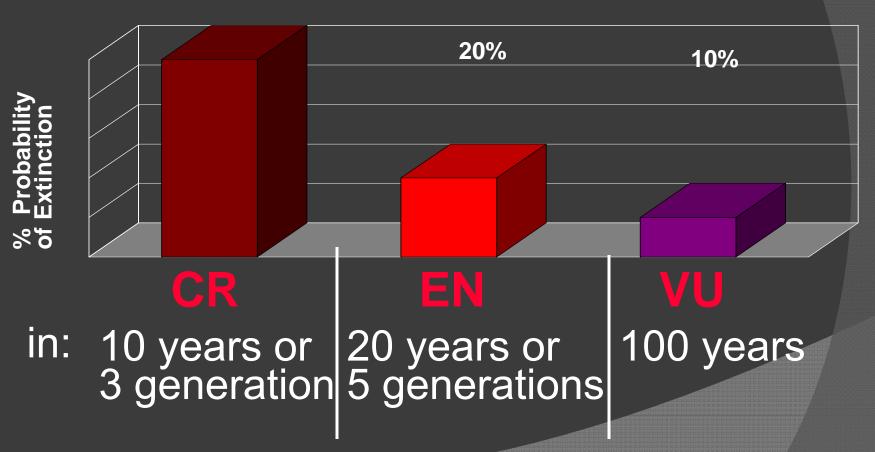


E. Quantitative analysis

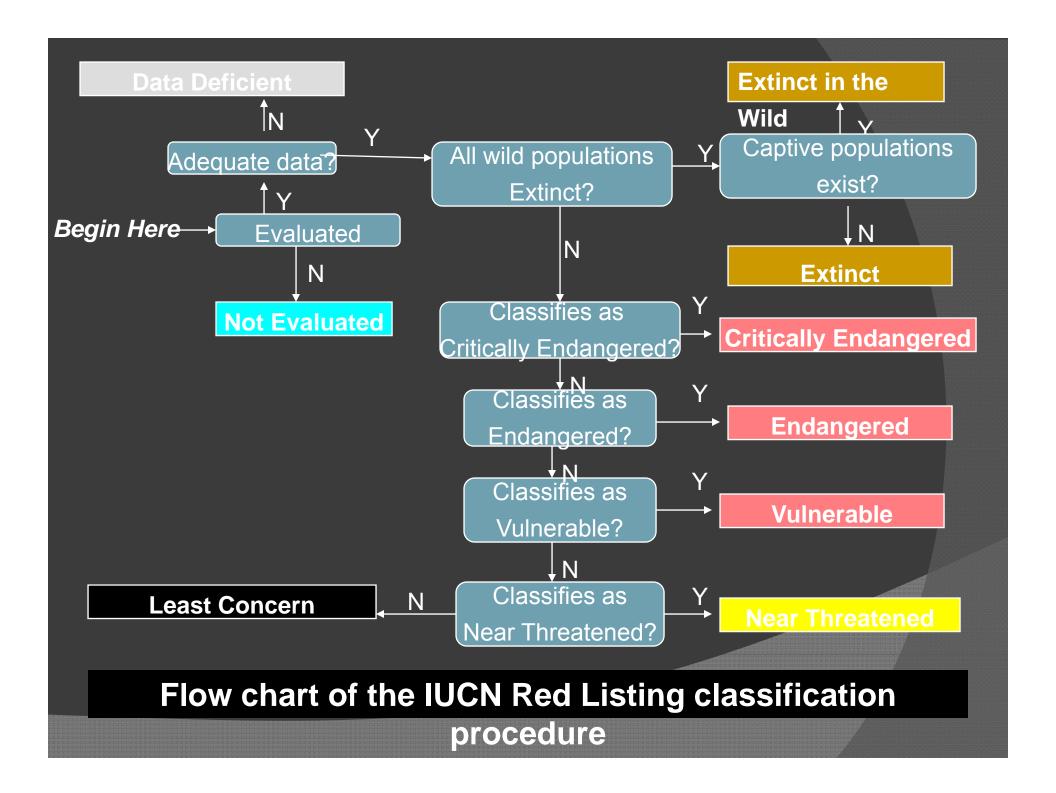
showing the probability of extinction in the wild to be at least

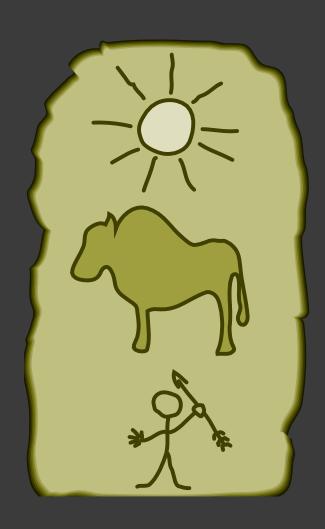






Whichever is longer (up to a maximum of 100 years)





Citation of the IUCN Red List Categories and Criteria

Examples:

- •EX
- •VU A2c+3c
- •EN B1ac(i, ii, iii)
- •CR A2c+3c; B1ab(iii)
- •VU D2



Documentation Requirements for Taxa Included on the IUCN Red List

The documentation of evaluations gives greater credibility and transparency to the Red List and facilitates better analysis of the findings.

It also provides a basis on which listings can be contested.

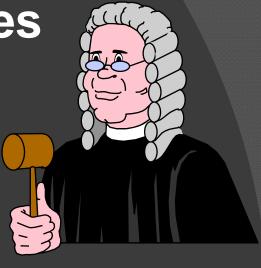


Documentation Requirements for Taxa Included on the IUCN Red List

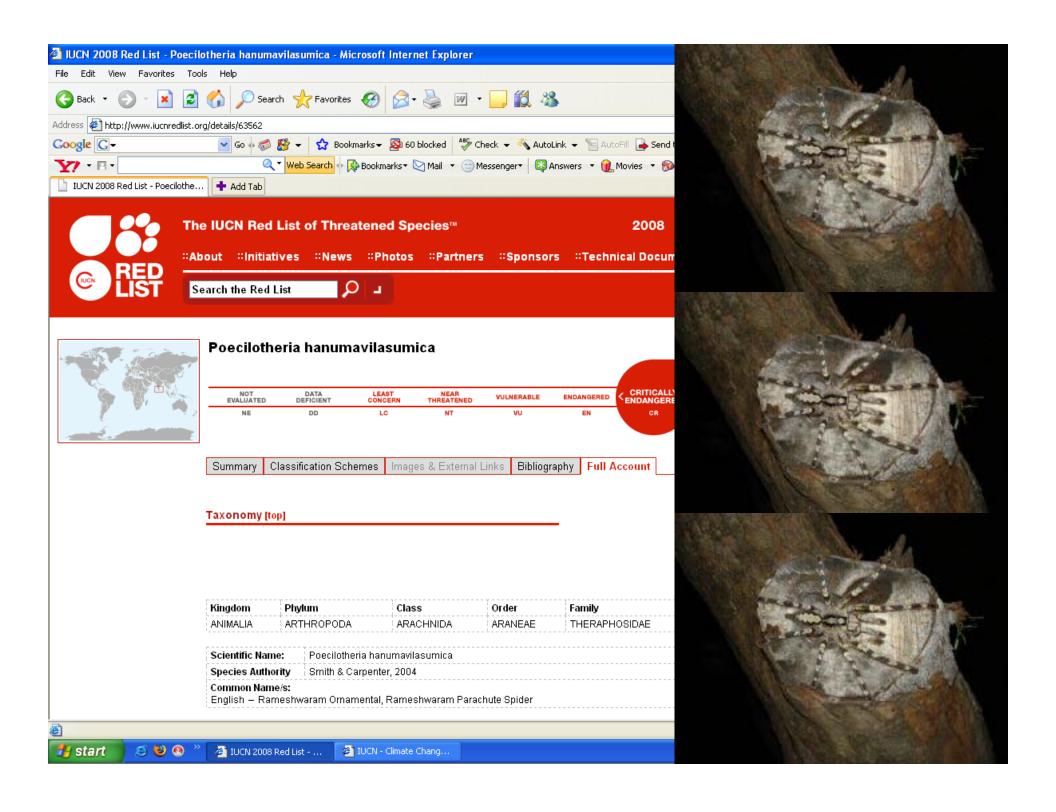
Each listing should be documented with a narrative specifying the information used to make the Red List Category determination

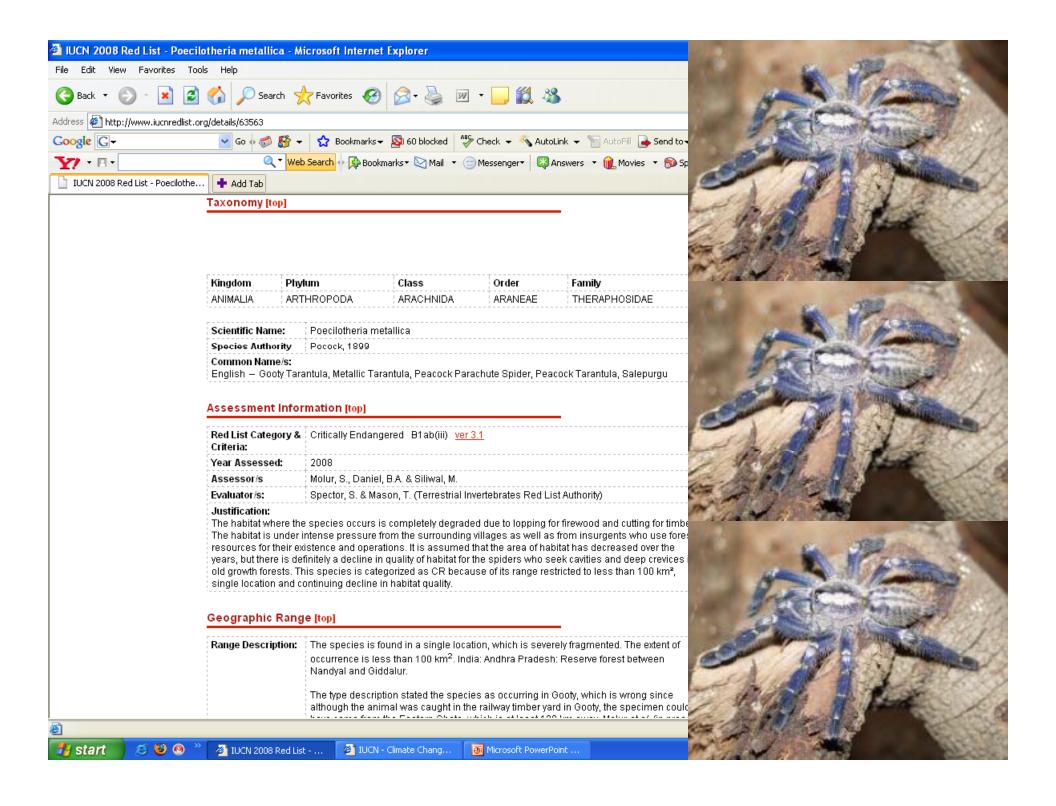


Red Listing Authorities



The **Red List Authorities** are responsible for the assessment and evaluation of all taxa included on the IUCN Red List.



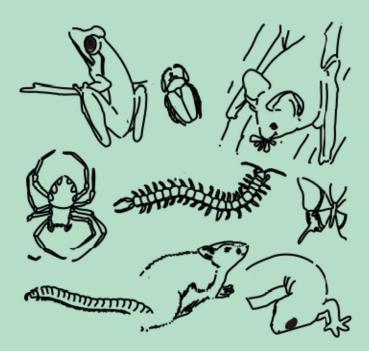


CAMP and Education

CBSG South Asian recommends a comprehensive <u>education</u> programme

Target Groups Education / Awareness / Action Programmes				
Level 1- Policy	Policy-makers, bureaucrats, professional foresters, wildlife officials, wildlife biologists, academics	CAMP REPORT - variants, from complete report for scientists to salient points for policy makers		
Level 2 - layman	Common man, from both urban and rural areas, educated and non-educated, English speaking & vernacular	CAMP information attractively typeset and formulated appropriately for general reading or for use in group activities, Material on special issues in vernacular		
Level 3 - students	Young people from 6 - 16	CAMP output information of interest to youngsters and made palatable for different ages. Packets to use in zoo, NGOs, wildlife areas, school, and museums.		

DAILY LIFE WILDLIFE



CONSERVATION & WELFARE



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| Company of the Compa



PROGRAMMES FOR CHILDREN





Educator skills training programme: utilizing CAMP data base



Introducing active learning methodology at Tinsukia, Assam 14-16 Feb 2007



ZOO team develop ed. materials using CAMP and PHVA reports and Network members Evaluate/

ZOO Education Network

Distribute through

6 Taxon network members

CBSG members

SANIZE members

SAZARC members

Bat Club members

Individuals

Training / guidelines

Bangladesh

India

Nepal

Sri Lanka

Pakistan

Afghanistan

Local education programmes

Members

We receive report from Organisers

Thank you for listening