



Rucervus schomburgki

IUCN/SSC Deer Specialist Group

"Assess all deer taxa with the IUCN Red list categories, to identify and understand the threats and human impact on local populations of deer and their habitats"

107 members

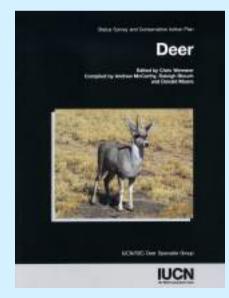
Co-chairs

Dr Susana Gonzalez (Uruguay) Dr William McShea (U.S.A.)





IUCN Deer Action Plan (1998)



Re-assessment completed in 2016 (Sarah Brook RLA) WHO ARE THE "DEER" ?

Class Mammals

Order Artiodactyla

Suborder Ruminantia

57 spp. *Cervidae* Eurasia, Americas, N. Africa Families c.7 spp. Moschidae Asia (high, cold)7 spp. Tragulidae Asia (tropical forest)



RECENT DISCOVERIES

Giant muntjac 1994 Muntiacus vuquangensis CR







Tarim red deer Lorenzini & Garofalo 2015 Cervus hanglu









Direct (i.e. linked to human activities)

- habitat loss/degradation/fragmentation
- over-harvesting/poaching
- disease
- competition with aliens (e.g. wild boar, other deer, livestock)

Indirect

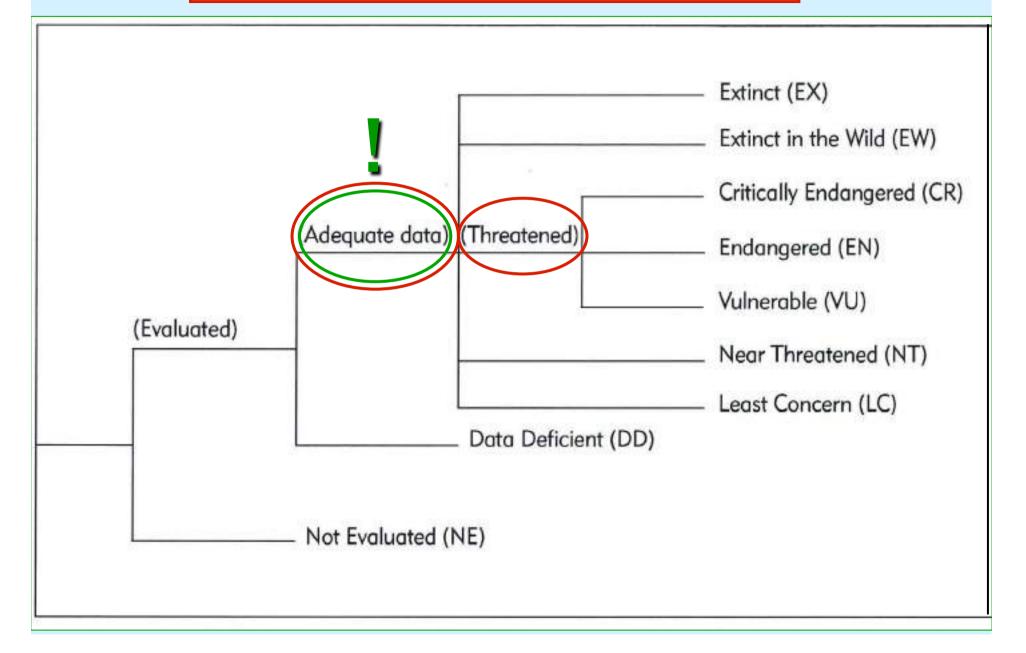
- development and globalisation trends
- lack of local expertise
- indifference

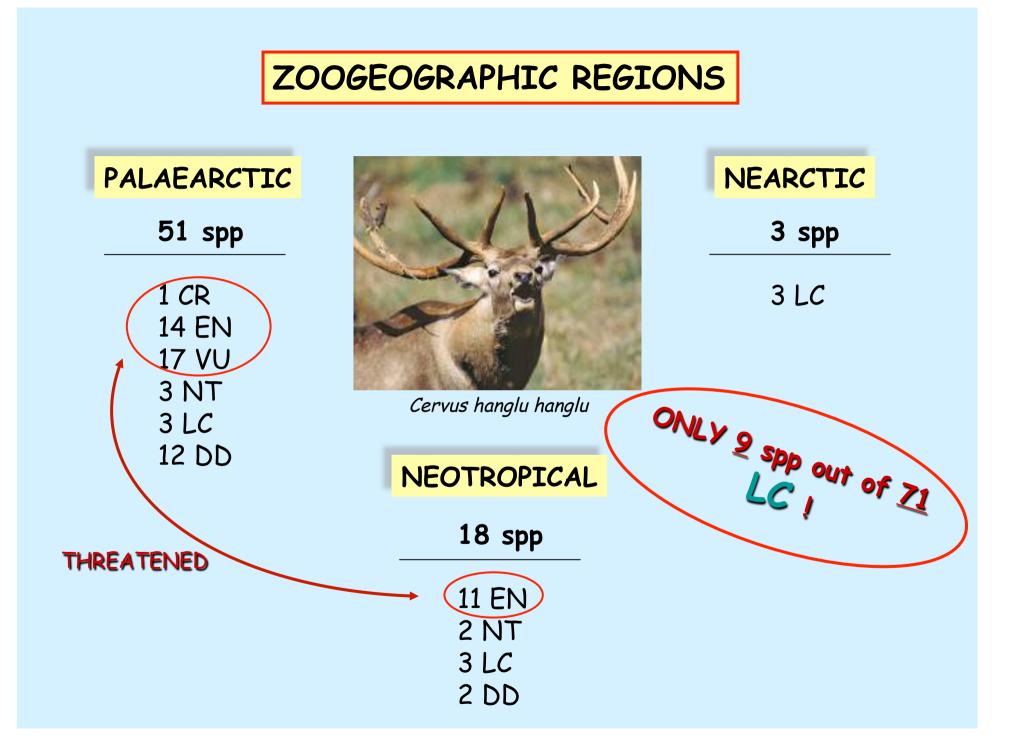


How to plan management and conservation guidelines?

- Species need to be easily recognised
- Monitoring trends
- Faecal DNA useful to survey populations

THE IUCN Red List SYSTEM







RECENT CHANGES		
	from	to
Reindeer/Caribou	LC	VU
Giant muntjac	EN	CR
Bornean yellow muntjac	LC	NT
Red deer	3 spp	

Only a handful have become "overabundant" in North America and Europe IUCN "OBJECTIVE" CRITERIA FOR RISK ASSESSMENT



ARE THEY REALLY OBJECTIVE ?

VERSIONS

Mace & Lande 1991 Mace et al. 1992 IUCN 1993 Mace & Stuart 1994 IUCN 1994 IUCN 2001



CRITICALLY ENDANGERED as an example !

CR = the best available evidence indicates that it meets any of the following criteria (A to E) and is therefore considered to be facing an extremely high risk of extinction in the wild

A. Reduction in population size based on any of the following

- An observed, estimated, inferred or suspected population size reduction of 90% over the last <u>10 years</u> or three generations, whichever is the longer, where the causes of the reduction are clearly reversible AND understood AND ceased, based on (and specifying) any of the following: (a) direct observation; (b) an index of abundance appropriate to the taxon; (c) a decline in area of occupancy, extent of occurrence and/or quality of habitat; (d) actual or potential levels of exploitation; (e) the effects of introduced taxa, hybridization, pathogens, pollutants, competitors or parasites.
- 2. An **observed**, **estimated**, **inferred** or **suspected** population <u>size reduction of 80% over the</u> <u>last 10 years</u> or three generations, whichever is the longer, where the reduction or its causes may not have ceased OR may not be understood OR may not be reversible, based on (and specifying) any of (a) to (e) under A1.
- 3. A population <u>size reduction of 80%</u>, **projected or suspected to be met within the next 10** years or three generations, whichever is the longer (up to a maximum of 100 years), based on (and specifying) any of (b) to (e) under A1.
- 4. An observed, estimated, inferred, projected or suspected population <u>size reduction of ≥80%</u> over any 10 year or three generation period, whichever is longer (up to a maximum of 100 years in the future), where the time period must include both the past and the future, and where the reduction or its causes may not have ceased OR may not be understood OR may not be reversible, based on (and specifying) any of (a) to (e) under A1.

RECENT DISCOVERIES

Leaf muntjac 1999 Muntiacus putaoensis









Giant muntjac 1994 Muntiacus vuquangensis CR

Saola 1992 Pseudoryx nghetinhensis CR (Bovidae)





IS CONSERVATION BIOLOGY TURNING INTO CONVERSATION BIOLOGY ?

