

Three Species of Hematophagous Bats



Desmodus rotundus is the most common and studied species. It is versatile and specialized in mammalian blood, including from human, but can also be fed in poultry. The brown coat is more common, but the orange color also occurs.



Diphylla ecaudata is a rare and specialized in blood birds

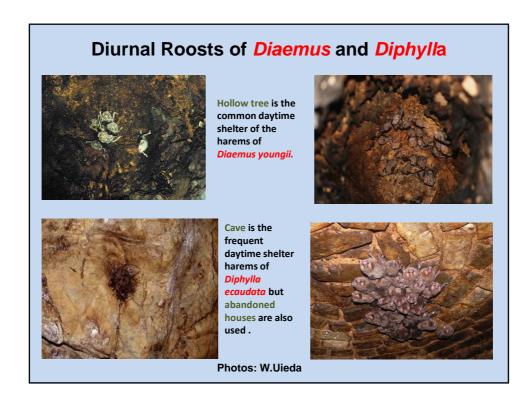


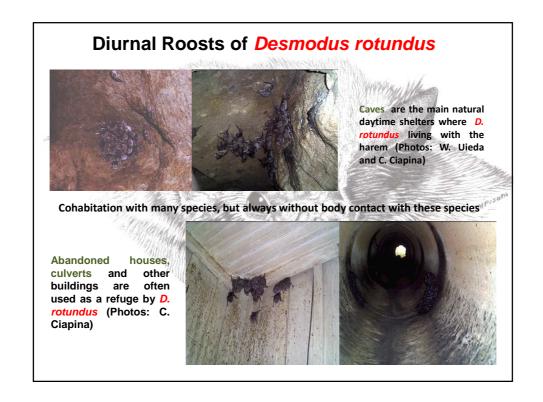
Diaemus youngii is a rare and specialized species in the blood of birds. A pair of oral glands and stress call are characteristic of this species.

Photos: W.Uieda

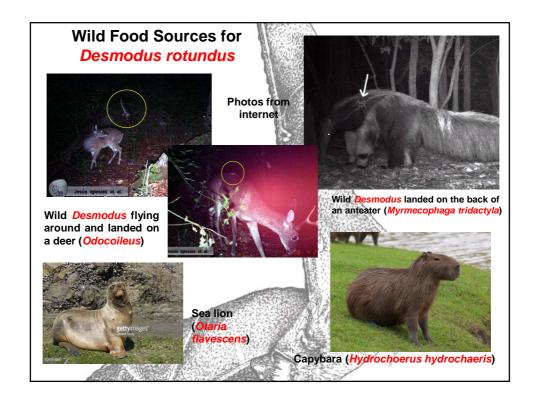
Daytime Shelters of Hematophagous Bats

Are always inner roosts, where environmental differences are minimal or no fluctuations.









Wild Food Sources of **Desmodus rotundus**



Tapir (Tapirus terrestris) (Photo: W.Uieda)



Peccary (Tayassu pecari) (Photo: Geovanni)

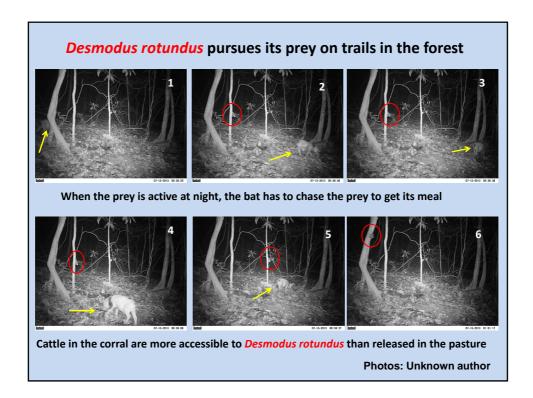


Wild pig (Pecari tajacu) (Photo: Internet)

Most American mammals have nocturnal habits and living in small flocks. These behaviors are great obstacles for food supply to *Desmodus rotundus*.

In well-preserved forests, this bat is a rare species.

Two individuals of Desmodus landed on the back of a wild pig (Sus scrofa)



Local Hunters and Hematophagous Bats

Many people living in the Amazon region hunt wild animals for food and this locally reduces wild food sources of hematophagous bats, especially of *Desmodus rotundus*.



Peccary

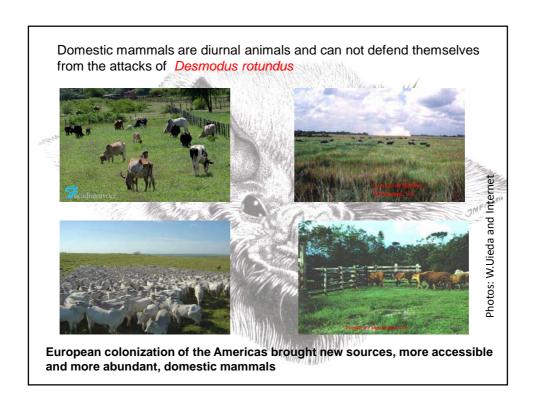


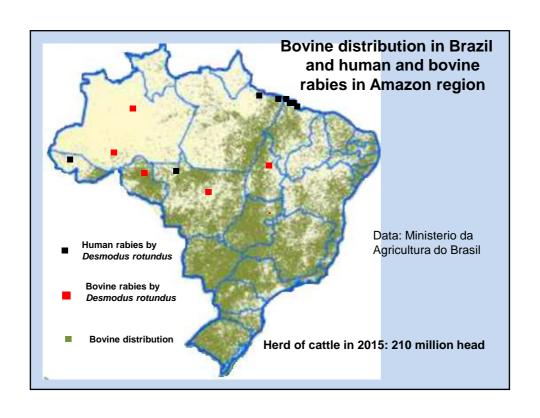
Deer

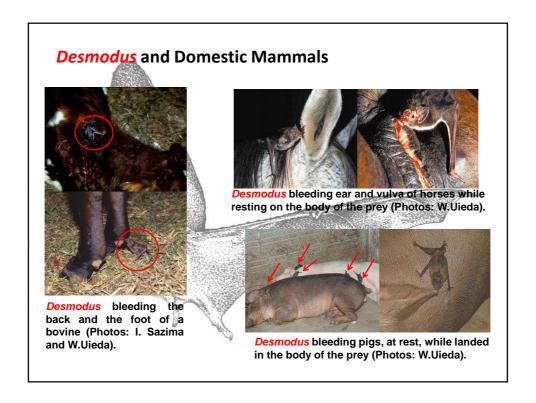


Photos: W.Uieda

Paca









Chicken as Food Source of Hematophagous Bats



Diaemus youngii hanging on tree branch under a chicken (Photo: A. Bredt).



Desmodus rotundus hanging on the perch of the post of a rooster and bleeding its foot (Photo: W. Uieda)



Diphylla ecaudata hanging on the tail feathers of a chicken and bleeding the cloacal region (Photo: W. Uieda).

(Fotos: WUieda)

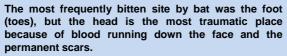




3 year old girl newly bitten by *Desmodus* on the toe, while sleeping in her hammock in the Amazon region of Brazil. Look spots of blood on the foot, leg and hammock (Photo: W. Uieda).

Desmodus and Human Beings







Photos: W.Uieda

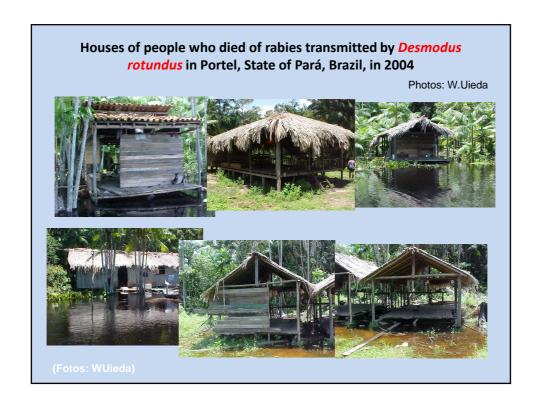
Feet of Indigenous children were frequentely bitten by Desmodus at the village Baú, Jacareacanga, PA.

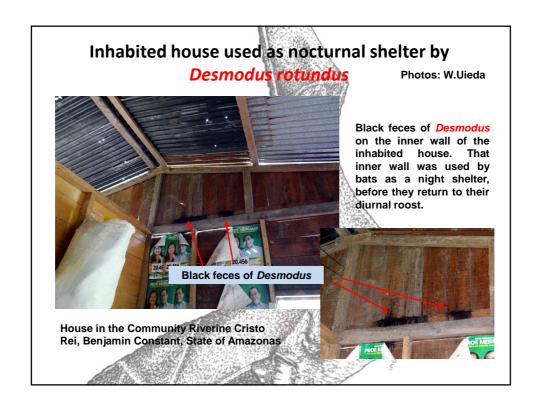


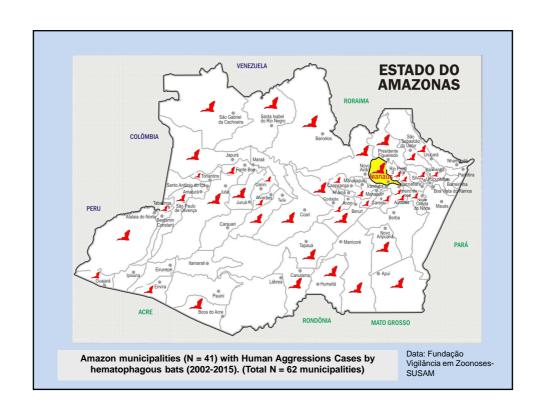


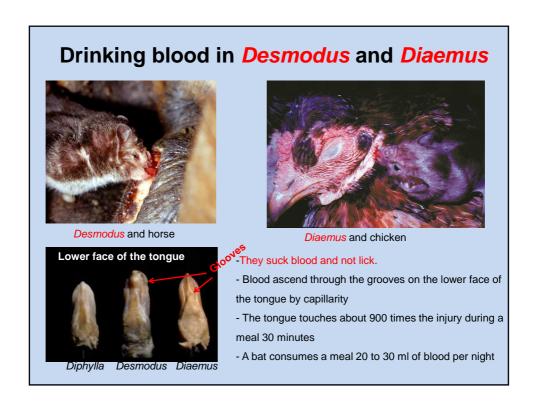


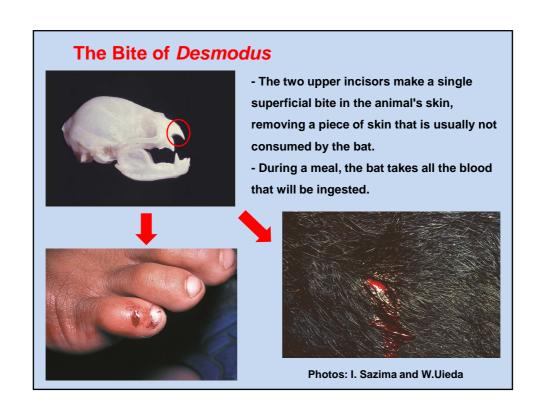










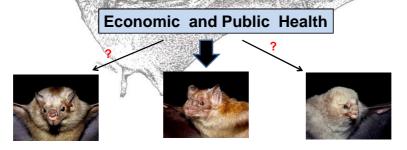






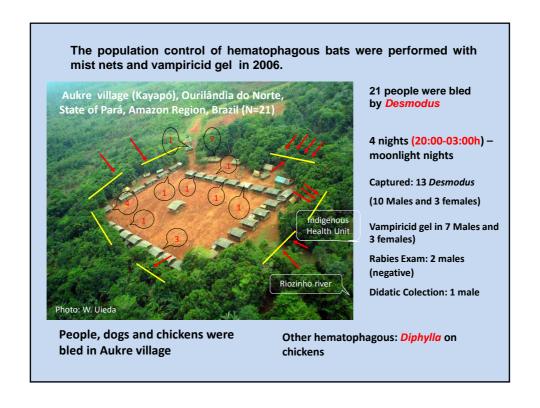
Why to control Hematophagous bat populations?

- Desmodus rotundus is a rare species in unmodified forests, where depending only on food from wild sources .
- Today, *Desmodus* is a common bat in almost all of Latin America and in some regions is extremely common. In Brazil, it is also taking place in urban areas of large cities such as São Paulo, Rio de Janeiro, Belo Horizonte, Salvador, Recife, Olinda, Belém and Manaus.
- Importance to public health due to the rabies transmission to humans throughout Latin America, but especially in Peru, Colombia, Venezuela and Brazil

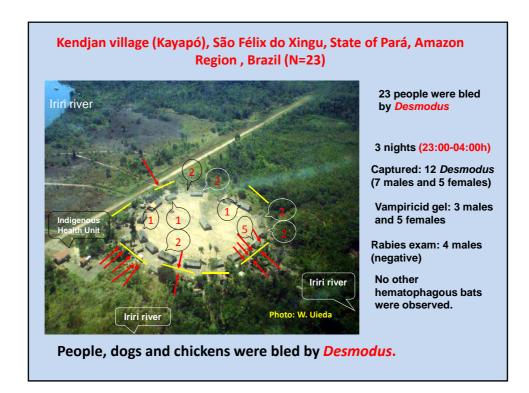


How to control?

- Desmodus rotundus control in three indigenous villages of the Amazon region, after human rabies outbreaks in the states of Pará and Maranhão between 2004 and 2005.







After the Desmodus control in these Indian villages, it was not registered any other attack of these bats for 5 consecutive years.

