MacLeay’s Mustached Bat

*Pteronotus macleayii*

First Description: **(Gray, 1839). Ann. Nat. Hist., 4:5.**

Type Locality: **Cuba**

Roosting / Nursery Habitat: **Obligate cave**

Diet: **Insects: moths (Lepidoptera), flies (Diptera), beetles (Coleoptera), spiders (Araneae), crickets & grasshoppers (Orthoptera), true bugs (Hemiptera), booklice (Psocoptera), mayflies (Ephemeroptera) <**http:// www.onlinelibrary.wiley.com/enhanced/doi/10.1111/mec.12504/>(Emrich et al. 2013).

Ecosystem Services: **Insect pest control**

Acoustic Habitat: **Background-cluttered space; fluttering hunter**

Physical Characteristics (from Windsor Cave population):

*Forearm length*: **Female = 45.0 + 2.0 mm**

**Male = 43.9 + 1.2 mm**

*Weight*: **Female = 6.2 + 0.3 grams**

**Male = 6.6 + 0.5 grams**

Reproduction (Windsor): **Timing of oestrus and copulation remains unconfirmed.**

(TEXT NOT IN TABLE)

**Additional:** *Pteronotus macleayii* is our least-understood Mormoopidae (Genoways et al. 2005, NEPA 2011). Research of this species in Cuba <<http://www.bioone.org/doi/full/10.1644/11-MAMM-A-331.1>> (Mancina *et al.* 2012) suggests that it may forage higher up in the canopy than *P. quadridens* or *P. parnellii*; thus it may be harder for us to detect. Vertical and temporal segregation likely enables resource partitioning and coexistence with *P. quadridens* and *Mormoops blainvillei* (Emrich *et al.* 2013).

During monitoring efforts at Windsor Cave using harp traps, the male : female capture ratio of *P. macleayii* was 9 : 1. Further research is needed to determine if females have a maternity crèche in another cave.

Bubble fact: Why is the middle child so often neglected? *Pteronotus macleayii* is the medium-sized member of the genus on Jamaica and is the most data deficient.

**Literature Cited**

Emrich, M.A., E.L. Clare, W.O.C. Symondson, S.E. Koenig, and M.B. Fenton. 2013. Resource partitioning by insectivorous bats in Jamaica. <a href="http:// www.onlinelibrary.wiley.com/enhanced/doi/10.1111/mec.12504/">Molecular Ecology 23: 3648-3656.</a>

Genoways, H.H., R.J. Baker, J.W. Bickham, C. J. Phillips. 2005. <a href="http://www.bioone.org/doi/full/10.1644/11-MAMM-A-331.1"> Bats of Jamaica.</a> Museum Texas Tech Univ. Texas, USA.

Mancina, C.A., L. Garcia-Rivera, and B.W. Miller. 2012. Wing morphology, echolocation, and resource partitioning in syntopic Cuban mormoopid bats. <a href="http://www.bioone.org/doi/full/10.1644/11-MAMM-A-331.1">J. Mammology 95: 1308-1317.</a>

National Environment and Planning Agency. 2011. Bat Management Plan for Jamaica 2012 – 2017. Ecosystems Management Branch, NEPA, Government of Jamaica.