

the nose-leaf is well developed, and the lower lip has a triangular naked space bounded by two converging lines of small warts. The tail is much shorter than the largely-developed interfemoral membrane; the first phalanx of the little finger is greatly inferior in length to half the metacarpal; and two premolars only are present on each side of the lower jaw. Several species are described from various parts of South America, as *Ph. discolor*, Natt., *Ph. elongatum*, Geoffr., &c.; but only one, *Ph. hastatum*, has been recorded from our subregion. It may be distinguished by having the nose-leaf shorter than the foot, which, again, is shorter than the calcaneum, as well as by its large size (forearm 3".20) and the uniform brown colour of its fur.

Closely allied to *Phyllostoma* is *Mimon*, Gray*, with only two lower incisors and two warts on the lower lip instead of a triangular space. I notice it here because M. De Saussure's *Vampyrus auricularis* (identified by Professor Peters with Gray's *Mimon bennetti* †) is described in that author's memoir "Sur quelques Mammifères du Mexique," although he expressly states that his type was sent from Brazil ‡; and Mr. Dobson appears to have been thus misled into adding "Mexico" to the recorded habitat of *M. bennetti* §.

1. *Phyllostoma hastatum*.

Vespertilio hastatus, Pallas, Spicil. Zool. iii. p. 7 (1767, ex Buffon)¹.

Phyllostoma hastatum, Ét. Geoffroy, Ann. du Mus. xv. p. 117, pl. lxxi.²; Peters, Monatsb. Ak. Berl. 1865, p. 515³; Dobson, Cat. Chir. Brit. Mus. p. 484, pl. xxv. fig. 3⁴.

Hab. PANAMA, Chiriqui (*Mus. Berol.*).—PERU⁴; GUIANA⁴; BRAZIL⁴.

Next to *Vampyrus spectrum* this is the largest of the American Bats, having sometimes an expanse of wing of nearly twenty-three inches, and it has shared with that species the accusation of being a blood-sucker. This accusation in the present case has been made by such eminent authorities as Prince Maximilian and Mr. A. R. Wallace; but their evidence does not appear to be satisfactory, as will be seen when we come to treat of *Desmodus rufus*.

The range of this species, as at present known to us, does not seem to extend much further north than Panama, from which State there is an example in the Berlin Museum; for Mr. Dobson has pointed out to me that the individual from Nicaragua, recorded by Gray in the 'Voyage of the Sulphur,' is really an example of *Vampyrus spectrum* ||.

8. CAROLLIA.

Carollia, Gray, Mag. Zool. & Bot. ii. p. 488 (1838).

Hemiderma, Gervais, Expéd. de Castelnau, Mamm. p. 43 (1855).

* P. Z. S. 1847, p. 14.

† Monatsb. Ak. Berl. 1869, p. 396.

‡ Rev. et Mag. de Zool. xii. p. 487.

§ Cat. Chir. Brit. Mus. p. 492.

|| Cf. *supra*, p. 39.