

Supplementary Material 1

Table S1: Functional traits of bats species recorded at the four sites in the city of Oaxaca and surrounding municipalities. TL= Total length (mm), TaL= Tail length (mm), HL= Hind foot length (mm), EL= Ear length (mm), FL= Forearm length (mm), BM= Body mass (g).

	Specie	Diet	Offspring	Wing bags	Nasal leaf	Uropatagium	Tail	TL	TaL	HL	EL	FL	BM
1.	<i>Aeroestes cinereus</i>	arthropodivore	3	absent	absent	complete	embedded	140	63	14	18	55	25
2.	<i>Anoura geoffroyi</i>	nectarivore pollinivore insectivore	1	absent	rudimentary	reduced	absent	70	0	12	9	47	20
3.	<i>Artibeus jamaicensis</i>	frugivore	2	absent	rudimentary	conspicuous	absent	94	0	18	24	61	45
4.	<i>Artibeus lituratus</i>	frugivore	2	absent	rudimentary	conspicuous	absent	102	0	26	27	74	80
5.	<i>Balantiopteryx plicata</i>	arthropodivore	1	present	absent	complete	embedded	70	21	9	16	42	7
6.	<i>Choeronycteris mexicana</i>	nectarivore pollinivore	2	absent	rudimentary	reduced	embedded	103	12	13	7	45	20
7.	<i>Corynorhinus townsendii</i>	arthropodivore	1	absent	absent	complete	embedded	112	54	13	39	47	13
8.	<i>Dasypterus ega</i>	arthropodivore	3	absent	absent	complete	embedded	132	58	13	21	49	13
9.	<i>Dasypterus intermedius</i>	arthropodivore	3	absent	absent	complete	embedded	161	77	13	19	52	17
10.	<i>Dermanura azteca</i>	frugivore	1	absent	rudimentary	conspicuous	absent	73	0	13	15	41	24
11.	<i>Desmodus rotundus</i>	sanguinivore	1	absent	absent	reduced	absent	90	0	20	20	63	40
12.	<i>Eptesicus fuscus</i>	arthropodivore	1	absent	absent	complete	embedded	138	42	14	20	54	23
13.	<i>Glossophaga soricina</i>	nectarivore pollinivore	2	absent	rudimentary	conspicuous	embedded	64	10	11	15	39	10
14.	<i>Hylonycteris underwoodi</i>	nectarivore pollinivore	1	absent	rudimentary	conspicuous	embedded	60	10	11	13	38	9
15.	<i>Lasiurus frantzii</i>	arthropodivore	2	absent	absent	complete	embedded	65	54	10	13	42	12
16.	<i>Leptonycteris nivalis</i>	nectarivore pollinivore	1	absent	rudimentary	reduced	absent	85	0	19	19	59	30
17.	<i>Leptonycteris yerbabuenae</i>	nectarivore pollinivore	1	absent	rudimentary	reduced	absent	74	0	15	14	46	23
18.	<i>Molossus molossus</i>	arthropodivore	1	absent	absent	complete	free	104	39	11	17	42	14

19.	<i>Molossus rufus</i>	arthropodivore	1	absent	absent	complete	free	125	46	14	17	49	31
20.	<i>Mormoops megalophylla</i>	arthropodivore	1	absent	absent	complete	embedded	70	31	12	17	57	19
21.	<i>Myotis californicus</i>	arthropodivore	1	absent	absent	complete	embedded	95	41	8	15	35	5
22.	<i>Myotis fortidens</i>	arthropodivore	1	absent	absent	complete	embedded	96	43	11	15	40	8
23.	<i>Myotis keaysi</i>	arthropodivore	1	absent	absent	complete	embedded	47	41	10	13	41	5
24.	<i>Myotis thysanodes</i>	arthropodivore	1	absent	absent	complete	embedded	95	45	10	20	47	6
25.	<i>Myotis velifer</i>	arthropodivore	1	absent	absent	complete	embedded	109	55	12	16	47	11
26.	<i>Nyctinomops laticaudatus</i>	arthropodivore	1	absent	absent	complete	free	107	43	12	20	45	14
27.	<i>Promops centralis</i>	arthropodivore	1	absent	absent	complete	free	161	60	13	16	55	27
28.	<i>Pteronotus davyi</i>	arthropodivore	1	absent	absent	complete	embedded	87	29	19	16	47	8
29.	<i>Pteronotus parnellii</i>	arthropodivore	1	absent	absent	complete	embedded	71	26	14	28	59	24
30.	<i>Rhogeessa gracilis</i>	arthropodivore	1	absent	absent	complete	embedded	89	43	8	18	33	4
31.	<i>Sturnira hondurensis</i>	frugivore	1	absent	rudimentary	absent	absent	71	0	14	17	47	24
32.	<i>Sturnira parvidens</i>	frugivore	1	absent	rudimentary	absent	absent	65	0	16	18	45	19
33.	<i>Tadarida brasiliensis</i>	arthropodivore	1	absent	absent	complete	free	96	39	10	16	46	10

Supplementary Material 2

Figure S1: Phylogeny used to estimate the phylogenetic diversity of bats in southern Mexico, obtained from Upham et al., 2019.

