

Supplementary material 1

Table S1. Characteristics of captured bats and their prey preferences

Bat species	Location of capture	Latitude and longitude	Date of capture	Sex	Age and reproductive status	Ring number and GenBank number	Length of forearm, mm	Weight, g	BCI	Composition of bat faeces (A, % / F, %)
<i>Myotis petax</i>	Aksu (Beloje) Village	49°21'24.1"N 85°24'39.1"E	23- 24.07.2025	♀	adult postlactating	MOSKVA XB 415894	38.5	8.4	1.05	Ephemeroptera (A, 76.1% / F, 100%); Hymenoptera (A, 19.3% / F, 66.7%); Lepidoptera (A, 3.6% / F, 50%); Diptera (A, 0.6% / F, 16.7%); Coleoptera (A, 0.25% / F, 8.3%); Trichoptera (A, 0.1% / F, 8.3%)
					subadult	MOSKVA XB 415888	37.5	6.25	N/A*	Ephemeroptera (A, 83.75% / F, 100%); Hymenoptera (A, 14% / F, 41.7%); Trichoptera (A, 1.7% / F, 33.3%); Diptera (A, 0.6% / F, 25%)
					subadult	MOSKVA XB 415879	37	5.8	N/A	Ephemeroptera (A, 89% / F, 100%); Hymenoptera (A, 10% / F, 50%); Lepidoptera (A, 1% / F, 37.5%)
				♂	adult	MOSKVA XB 415881	39	8	0.96	Ephemeroptera (A, 69.3% / F, 100%); Diptera (A, 12.25% / F, 58.3%); Lepidoptera (A, 10.9% / F, 100%); Trichoptera (A, 6.1% / F, 41.7%); Coleoptera (A, 1.25% / F, 33.3%); Hymenoptera (A, 0.2% / F, 8.3%)
					subadult	MOSKVA XB 415880	38.5	6.6	0.83	Hymenoptera (A, 75.3% / F, 100%); Ephemeroptera (A, 21.3% / F, 100%); Diptera (A, 2.4% / F, 36.4%); Trichoptera (A, 0.95% / F, 36.4%); Lepidoptera (A, 0.1% / F, 18.2%)
					subadult	MOSKVA XB 415882	39	5.9	0.71	Ephemeroptera (A, 59.5% / F, 100%);

										Hymenoptera (A, 37.3% / F, 91.7%); Diptera (A, 3.1% / F, 33.3%)
					subadult	MOSKVA XB 415887	38	5.85	0.76	Ephemeroptera (A, 97% / F, 100%); Hymenoptera (A, 2.2% / F, 33.3%); Trichoptera (A, 0.8% / F, 25%)
	The vicinity of Arshaty (Archaty) Village	49°16'49.99"N 86°34'43.21"E	16- 17.07.2025	♀	NR**	MOSKVA XB 415892	39.5	8.2	N/A	Trichoptera (A, 98.6% / F, 100%); Diptera (A, 0.85% / F, 30%); Lepidoptera (A, 0.21% / F, 50%); Coleoptera (A, 0.21% / F, 30%); Hymenoptera (A, 0.1% / F, 10%)
					NR	MOSKVA XB 415874	40.5	8	N/A	Trichoptera (A, 99.9% / F, 100%); Ephemeroptera (A, 0.1% / F, 10%)
		♂		NR	MOSKVA XB 415878	37	6.65	N/A	Trichoptera (A, 98.7% / F, 100%); Lepidoptera (A, 0.7% / F, 36.4%); Diptera (A, 0.55% / F, 9.1%)	
				NR	MOSKVA XB 415873	37.5	7	N/A	Trichoptera (A, 99.3% / F, 100%); Lepidoptera (A, 0.7% / F, 33.3%)	
		49°16'50.2"N 86°34'20.6"E		♀	NR	MOSKVA XB 415875	40	7.95	N/A	Trichoptera (A, 69.2% / F, 100%); Lepidoptera (A, 26.5% / F, 66.7%); Araneae (A, 2.3% / F, 16.7%); Coleoptera (A, 2% / F, 33.3%)
				♂	NR	MOSKVA XB 415889	38	7.85	N/A	Trichoptera (A, 90.2% / F, 100%); Hemiptera (A, 9.2% / F, 10%); Lepidoptera (A, 0.6% / F, 20%)
<i>Myotis sibiricus</i>	Aksu (Beloye) Village	49°21'24.1"N 85°24'39.1"E	23- 24.07.2025	♀	adult parous	MOSKVA XB 415876 PZ534464 (GenBank)	37	6.3	N/A	Lepidoptera (A, 60.7% / F, 100%); Hymenoptera (A, 24.5% / F, 57.1%); Coleoptera (A, 11.3% / F, 85.7%); Diptera (A, 3.4% / F, 57.1%); Trichoptera (A, 0.1% / F, 14.3%)

					adult	collected, No. 1405	37	11	N/A	—
	Rakhmanovskie Klyuchi Village	49°32'12.4"N 86°30'15.5"E	14- 15.07.2025		adult	MOSKVA XB 415890 PZ534463 (GenBank)	37.5	8	N/A	Hymenoptera (A, 64% / F, 100%); Diptera (A, 22.7% / F, 75%); Neuroptera (A, 12.5% / F, 25%); Coleoptera (A, 0.7% / F, 75%)
<i>Myotis ikonnikovi</i>	The vicinity of Arshaty (Archaty) Village	49°16'49.99"N 86°34'43.21"E	16- 17.07.2025	♂	adult	MOSKVA XB 415895 PZ533049 (GenBank)	33	5.75	N/A	Trichoptera (A, 99.5% / F, 100%); Lepidoptera (A, 0.5% / F, 60%)
	The vicinity of Bekalka (Fykalka) Village	49°21'00.7"N 85°35'22.8"E	25- 26.07.2025	♀	adult	MOSKVA XB 415886 PZ533050 (GenBank)	33	5.2	N/A	Lepidoptera (A, 91.5% / F, 100%); Coleoptera (A, 4% / F, 83.3%); Hymenoptera (A, 3.7% / F, 83.3%); Neuroptera (A, 0.8% / F, 50%)
				♂	adult	MOSKVA XB 415883 PZ533051 (GenBank)	32	5.55	N/A	Coleoptera (A, 74.5% / F, 100%); Neuroptera (A, 25% / F, 100%); Lepidoptera (A, 0.5% / F, 100%)
<i>Plecotus ognevi</i>	The vicinity of Arshaty (Archaty) Village	49°17'07.76"N 86°34'41.49"E	18- 19.07.2025	♀	adult	ALTAI 35-00006	44.5	8.35	N/A	without droppings
					adult lactating	ALTAI 35-00007	44	9.1	N/A	Lepidoptera (A, 81% / F, 100%); Coleoptera (A, 19% / F, 100%)
					adult lactating	ALTAI 35-00008	42	8.95	N/A	Lepidoptera (A, 100% / F, 100%)
	The vicinity of Bekalka (Fykalka) Village	49°21'00.7"N 85°35'22.8"E	25- 26.07.2025	♀	adult nulliparous	ALTAI 35-00021	41	8.4	N/A	Neuroptera (A, 95% / F, 100%); Lepidoptera (A, 5% / F, 66.7%)
				♂	adult	ALTAI 35-00019	42	9.3	N/A	Lepidoptera (A, 100% / F, 100%)
					adult	ALTAI 35-00020	40.5	7.3	N/A	Lepidoptera (A, 95% / F, 100%); Hymenoptera (A, 5% / F, 50%)
					adult	ALTAI 35-00022	41	6.85	N/A	without droppings
					adult	ALTAI 35-00023	41	8.45	N/A	Lepidoptera (A, 100% / F, 100%)
	Verkhneye	49°04'23.6"N	21-	♀	adult	ALTAI 35-00010	41.5	8.45	0.98	Lepidoptera (A, 90% / F, 100%);

	Zimoveye ranger station	86°00'42.5"E	22.07.2025		lactating					Diptera (A, 2% / F, 40%)
	Rakhmanovskie Klyuchi Village	49°32'12.4"N 86°30'15.5"E	12- 13.07.2025	♀	adult	MOSKVA XB 415893	41.5	7.55	N/A	Diptera (A, 99.95% / F, 100%); Lepidoptera (A, 0,05% / F, 50%)
				♂	adult	MOSKVA XB 415872	41.5	7.6	N/A	Diptera (A, 90% / F, 100%); Lepidoptera (A, 10% / F, 100%)
					adult	MOSKVA XB 415900	41.5	8	N/A	Lepidoptera (A, 63.3% / F, 100%); Diptera (A, 31.7% / F, 100%)
			adult		MOSKVA XB 415899	40.5	7.6	N/A	Diptera (A, 54.5% / F, 100%); Hymenoptera (A, 45% / F, 100%); Lepidoptera (A, 0.5% / F, 50%)	
			adult		MOSKVA XB 415897	39.5	7.65	N/A	Lepidoptera (A, 100% / F, 100%)	
	adult	MOSKVA XB 415896	40	6.2	N/A	Lepidoptera (A, 100% / F, 100%)				
Takhtayzhurt area	49°19'07.7"N 86°39'07.5"E	19- 20.07.2025	♂	adult	ALTAI 35-00009	42.5	9.85	N/A	Lepidoptera (A, 100% / F, 100%)	
<i>Eptesicus (Cnephaeus) nilssonii</i>	Katon-Karagay Village	49°10'04.4"N 85°37'20.2"E	8-9.07.2025	♂	adult	ALTAI 35-00001	40	8	0.83	Lepidoptera (A, 57.4% / F, 100%); Hemiptera (A, 33.35% / F, 50%); Diptera (A, 9.25% / F, 50%)
					adult	ALTAI 35-00002	41.5	8.45	0.79	Coleoptera (A, 43.1% / F, 91%); Lepidoptera (A, 30.7% / F, 100%); Trichoptera (A, 14.7% / F, 82%); Hemiptera (A, 10% / F, 36%); Diptera (A, 1.1% / F, 27.3%)
			9-10.07.2025		adult	ALTAI 35-00003	38	6.85	0.83	Coleoptera (A, 57.1% / F, 100%); Hemiptera (A, 36.2% / F, 100%); Lepidoptera (A, 6.7% / F, 75%)
	The vicinity of Arshaty (Archaty)	49°17'02.2"N 86°34'09.6"E	16- 17.07.2025		adult	ALTAI 35-00005	41	7	0.68	Coleoptera (A, 50% / F, 100%); Trichoptera (A, 40% / F, 100%); Hemiptera (A, 10% / F, 50%)

	Village	49°16'49.99"N 86°34'43.21"E			adult	ALTAI 35-00004	39	8.75	0.98	Trichoptera (A, 94.7% / F, 100%); Hemiptera (A, 1.9% / F, 91%); Coleoptera (A, 1.4% / F, 100%); Lepidoptera (A, 1.4% / F, 100%); Neuroptera (A, 0.5% / F, 36.4%); Diptera (A, 0.1% / F, 9.1%)
<i>Vespertilio murinus</i>	Aksu (Beloye) Village	49°21'24.1"N 85°24'39.1"E	23- 24.07.2025	♂	adult	ALTAI 35-00011	44	11.85	N/A	Lepidoptera (A, 96% / F, 100%); Hymenoptera (A, 3% / F, 100%); Diptera (A, 1% / F, 100%)
					adult	ALTAI 35-00012	45	11	N/A	Lepidoptera (A, 94.4% / F, 100%); Ephemeroptera (A, 4.2% / F, 100%); Hymenoptera (A, 0.6% / F, 20%); Coleoptera (A, 0.4% / F, 40%); Diptera (A, 0.4% / F, 20%)
					adult	ALTAI 35-00013	43.5	10	N/A	Lepidoptera (A, 97.5% / F, 100%); Neuroptera (A, 2.25% / F, 37.5%); Coleoptera (A, 0.25% / F, 12.5%)
					adult	ALTAI 35-00014	47	11	N/A	Lepidoptera (A, 83.8% / F, 100%); Ephemeroptera (A, 9.4% / F, 83.3%); Coleoptera (A, 3.75% / F, 33.3%); Hymenoptera (A, 2% / F, 33.3%); Neuroptera (A, 0.75% / F, 16.7%); Hemiptera (A, 0.25% / F, 8.3%)
					adult	ALTAI 35-00015	46	12.35	N/A	Lepidoptera (A, 51.7% / F, 100%); Ephemeroptera (A, 45.4% / F, 100%); Hymenoptera (A, 1.4% / F, 33.3%); Hemiptera (A, 1% / F, 58.3%); Coleoptera (A, 0.6% / F, 25%)
					adult	ALTAI 35-00016	43.5	10.55	N/A	Lepidoptera (A, 96.4% / F, 100%);

										Hemiptera (A, 2.9% / F, 66.7%); Coleoptera (A, 0.7% / F, 11.1%)
					adult	ALTAI 35-00017	42.5	11	N/A	Lepidoptera (A, 96.8% / F 100%); Hemiptera (A, 3% / F, 100%); Neuroptera (A, 0.2% / F, 16.7%)
<i>Murina hilgendorfi</i>	The vicinity of Bekalka (Fykalka) Village	49°21'00.7"N 85°35'22.8"E	25- 26.07.2025	♀	adult lactating	ALTAI 35-00018	41	13.15	N/A	without droppings
					adult	ALTAI 35-00024	40	NR	N/A	Lepidoptera (A, 79.7% / F, 100%); Coleoptera (A, 20.3% / F, 100%)

* N/A – Not Applicable

** NR – Not Recorded