

Table S3. Proportion of conserved sand fly species' ENM (overlap) and overall geographic projection change between present and 2050, in both CC scenarios (%).

Categories	Species	Overlap A2	Overlap B2	ENM change in A2 (%)	ENM change in B2 (%)
Tropical	<i>Brumptomyia hamata</i>	84.33	98.02	12.91	31.18
	<i>Br. mesai</i>	94.33	99.39	25.89	32.06
	<i>Lutzomyia beltrani</i>	97.94	99.74	24.88	28.96
	<i>Lu. bispinosa</i>	92.10	99.29	76.68	81.01
	<i>Lu. carpenteri</i>	95.07	99.44	26.19	32.29
	<i>Lu. cayennensis</i>	97.10	99.46	25.75	28.60
	<i>Lu. chiapanensis</i>	97.71	99.54	18.80	23.39
	<i>Lu. cratifer</i>	87.86	99.07	14.05	27.61
	<i>Lu. cruciata</i>	97.16	97.86	71.13	62.49
	<i>Lu. deleoni</i>	88.13	88.13	0.00	26.57
	<i>Lu. dodgei</i>	88.41	98.38	14.95	26.27
	<i>Lu. longipalpis</i>	95.91	99.31	16.61	19.37
	<i>Lu. olmeca olmeca</i>	90.87	99.70	15.33	28.02
	<i>Lu. ovallesi</i>	96.72	99.75	28.95	33.28
	<i>Lu. panamensis</i>	98.38	99.78	31.35	35.18
	<i>Lu. permira</i>	97.02	99.33	21.23	26.25
	<i>Lu. serrana</i>	92.60	99.10	17.69	27.41
	<i>Lu. shannoni</i>	94.91	96.45	17.11	13.84
	<i>Lu. steatopyga</i>	92.03	99.40	17.86	29.26
	Temperate	<i>Lu. trinidadensis</i>	85.14	98.13	10.91
<i>Lu. undulata</i>		96.06	99.45	21.70	26.77
<i>Lu. ylephiletor</i>		97.76	99.38	50.01	41.40
<i>Lu. anthophora</i>		90.46	91.49	32.66	26.21
Broad-range	<i>Lu. californica</i>	97.26	99.24	27.54	40.17
	<i>Lu. diabolica</i>	99.38	99.56	58.95	54.70
	<i>Lu. stewarti</i>	95.47	98.30	23.13	35.39
	<i>Lu. texana</i>	99.51	99.88	71.76	65.00
	<i>Lu. vexator</i>	68.73	72.99	-15.79	-14.78