

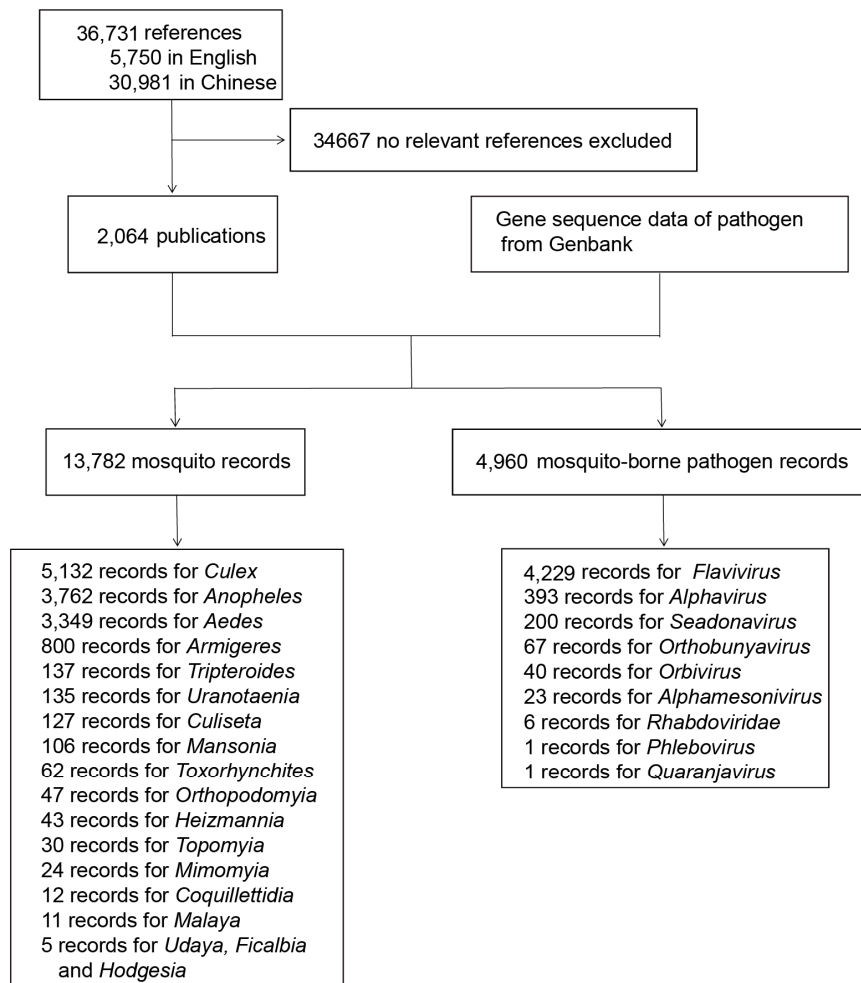
Supplementary Material for:

Mapping the distributions of mosquitoes and mosquito-borne arboviruses in China

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Supplementary Figure S1 The flow diagram of literature review.

Supplementary Table S1. The specific references for all 339 mosquito species in China from 1954 to 2020

Mosquito species	Reference
<i>Anopheles</i>	2, 5-7, 9, 11, 14, 15, 17-21, 23, 25-27, 37, 38, 42, 43, 45, 47, 49, 51-53, 57, 58, 66, 68, 71-75, 77-79, 82, 86, 91-93, 96-98, 100, 101, 103, 105-108, 112, 113, 115-117, 119-122, 124-127, 136-139, 141-145, 147, 149, 151, 153-155, 159, 161, 163, 165, 166, 168, 171, 180, 182-184, 187-189, 193-195, 200-202, 209, 211, 213-215, 218, 219, 221-225, 227, 236, 237, 240, 242, 244-249, 256, 258-263, 265, 268-270, 272, 275-277, 279, 283, 285, 287, 289-292, 301, 310-313, 315, 316, 321, 322, 324, 325, 329, 334, 335, 337, 339-342, 344-348, 350-353, 358, 359, 364, 365, 368, 371-373, 377, 378, 380-382, 385-390, 393, 394, 396, 397, 401-403, 408, 410, 412, 413, 415-418, 420-422, 426-428, 432, 434-439, 441-444, 446-451, 453-456, 459, 461, 462, 464, 466-476, 480, 484, 486, 490-499, 501-503, 505-508, 510, 512, 514, 518, 520-522, 525-528, 530, 531, 533, 534, 536-539, 541, 543-547, 549-552, 554-558, 560-565, 570-572, 574, 576, 578-581, 583-588, 592-595, 598-603, 605, 607, 608, 614-616, 621, 623, 626, 628-631, 634-638, 641-646, 652, 654-656, 658, 659, 663, 665, 666, 668-671, 676, 677, 680, 682-684, 689, 692, 693, 695, 697, 701, 702, 704-708, 710, 712, 715, 717, 718, 720, 723, 726-728, 730-737, 739, 740, 743, 745, 746, 748, 754-757, 761-767, 769, 771-774, 776, 778, 780-782, 786, 787, 789, 792, 793, 795-797, 799-805, 807, 809-813, 815-821, 824, 826, 827, 829, 831-833, 835-837, 839, 840, 843-846, 849, 851, 853, 856, 857, 859, 860, 863-865, 872, 875, 877-880, 882-885, 888, 890, 892, 894, 895, 899, 901, 902, 904, 905, 907, 911-915, 919, 921
<i>An. sinensis</i>	2, 5-7, 9, 11, 14, 17-21, 23, 27, 37, 38, 42, 43, 45, 49, 51-53, 57, 58, 66, 68, 71-75, 77-79, 91, 92, 96-98, 100, 101, 103, 105, 106, 108, 112, 113, 115-117, 119-121, 125-127, 136-139, 142-145, 151, 153-155, 159, 163, 165, 166, 168, 180, 182-184, 188, 193-195, 200, 201, 213-215, 218, 222, 224, 225, 227, 242, 244-249, 256, 258, 260-263, 265, 268-270, 272, 275-277, 279, 285, 287, 289, 291, 292, 311, 312, 315, 316, 321, 322, 325, 329, 334, 335, 337, 339, 341, 342, 344, 346-348, 350, 352, 353, 358, 359, 364, 365, 368, 372, 373, 377, 378, 380-382, 385-390, 393, 394, 396, 401-403, 408, 410, 412, 413, 415-418, 420, 422, 426, 428, 432, 434-439, 441-444, 446, 447, 449, 450, 453-456, 461, 462, 464, 466-473, 475, 476, 480, 484, 486, 490-496, 498, 499, 501-503, 505-508, 510, 512, 514, 518, 520, 522, 525-528, 530, 533, 534, 537, 541, 543-547, 549-552, 554-558, 560-562, 564, 565, 570-572, 574, 576, 578-581, 583, 585-587, 592-595, 598-600, 602, 603, 605, 607, 614-616, 621, 623, 628-631, 634-638, 641-646, 652, 654, 659, 663, 665, 666, 668-671, 676, 677, 680, 682-684, 689, 692, 693, 695, 697, 701, 702, 704-708, 710, 712, 715, 717, 718, 720, 723, 726-728, 730-737, 739, 740, 743, 745, 748, 754-757, 761-767, 769, 771-774, 776, 778, 780-782, 786, 789, 792, 793, 796, 799-805, 807, 809-813, 815-819, 821, 824, 826, 827, 829, 831-833, 835-837, 840, 843, 845, 849, 851, 853, 857, 859, 860, 863-865, 877-880, 882-885, 888, 892, 894, 895, 899, 901, 904, 905, 907, 911-915, 919, 921
<i>An. anthropophagus</i>	19, 20, 26, 38, 66, 79, 103, 107, 159, 161, 166, 183, 187-189, 202, 211, 213, 218, 221, 245, 256, 259, 265, 269, 270, 290-292, 301, 310, 311, 313, 322, 325, 337, 359, 365, 371, 380, 387, 394, 397, 415-417, 421, 441-443, 448, 451, 453, 459, 464, 474, 521, 531, 534, 536, 551, 599, 637, 638, 643, 704, 739, 766, 782, 815, 832, 915
<i>An. minimus</i>	7, 19, 25, 38, 45, 52, 79, 97, 98, 106, 137, 154, 166, 193, 219, 225, 236, 237, 240, 245, 256, 258, 265, 285, 291, 292, 325, 334, 337, 347, 358, 386, 394, 410, 412, 417, 426, 432, 441, 444, 466, 480, 490, 502, 506, 512, 520, 526, 527, 539, 551, 556, 563, 565, 578, 583, 584, 599, 616, 623, 656, 666, 670, 680, 723, 743, 769, 772, 797, 799, 819, 827, 837, 839, 857, 872, 880, 894, 895, 907, 911, 915
<i>An. maculatus</i>	19, 52, 57, 77, 97, 101, 106, 137, 149, 154, 195, 225, 265, 325, 334, 335, 386, 402, 410, 417, 418, 426, 432, 441, 444, 455, 466, 480, 490, 502, 506, 512, 520, 527, 534, 578, 579, 598, 599, 616, 623, 666, 723, 746, 769, 772, 787, 800, 819, 820, 827, 833, 872, 875, 880, 894, 904, 907, 911, 914
<i>An. pattoni</i>	11, 14, 53, 73, 141, 265, 312, 325, 329, 335, 339, 358, 377, 393, 410, 413, 441, 484, 496, 497, 505, 599, 601, 645, 697, 795
<i>An. lindesayi</i>	17, 52, 149, 265, 324, 325, 329, 335, 358, 371, 377, 413, 416-418, 426, 441, 480, 505, 506, 520, 527, 534, 579, 599, 697, 723, 755, 880
<i>An. jeyporiensis</i>	52, 97, 137, 154, 166, 265, 291, 292, 325, 334, 347, 386, 388, 402, 412, 417, 418, 426, 432, 444, 480, 502, 506, 512, 520, 526, 527, 551, 578, 586, 598, 599, 616, 666, 680, 769, 880
<i>An. tessellatus</i>	19, 20, 42, 52, 57, 77, 97, 101, 103, 106, 124, 137, 145, 154, 155, 195, 225, 244, 325, 334, 337, 344, 347, 386, 388, 410, 412, 417, 418, 426, 432, 441, 446, 480, 506, 512, 520, 527, 530, 578, 586, 598, 608, 616, 623, 630, 704, 723, 769, 772, 800, 813, 872, 880, 894, 904, 907
<i>An. splendidus</i>	19, 20, 45, 52, 57, 77, 101, 106, 137, 154, 225, 325, 347, 386, 410, 412, 417, 426, 441, 480, 490, 502, 506, 512, 520, 527, 578, 586, 623, 666, 723, 769, 772, 872, 880, 907
<i>An. fluviatilis</i>	52, 124, 154, 225, 265, 325, 347, 412, 417, 432, 441, 480, 502, 506, 512, 527, 599, 819
<i>An. kweiyangensis</i>	52, 265, 325, 368, 371, 417, 418, 441, 442, 466, 471, 599, 755
<i>An. annularis</i>	106, 325, 347, 417, 426, 441, 480, 502, 506, 520, 527, 578, 586, 598, 599, 616, 666, 680, 769, 800, 813, 872, 880, 904, 907
<i>An. vagus</i>	7, 19, 42, 45, 97, 100, 106, 121, 137, 142, 144, 154, 195, 334, 347, 386, 410, 426, 446, 455, 480, 502, 506, 520, 527, 530, 541, 557, 565, 578, 586, 598, 616, 623, 626, 666, 723, 769, 772, 800-803, 805, 813, 819, 880, 894, 904, 907
<i>An. gigas baileyi</i>	225, 265, 324, 325, 386, 441, 480, 506, 527, 534, 538, 579, 599, 723, 833, 872, 880
<i>An. yatsushiroensis</i>	2, 19, 141, 149, 159, 218, 325, 329, 371, 377, 387, 428, 441, 442, 464, 505, 506, 588, 636, 638
<i>An. nigerrimus</i>	325, 527, 534, 890
<i>An. hyrcanus</i>	15, 106, 122, 137, 171, 209, 334, 340, 351, 386, 480, 697, 846, 856, 864, 880, 894, 902
<i>An. peditaeniatus</i>	19, 45, 106, 137, 195, 334, 386, 410, 417, 441, 442, 446, 453, 490, 506, 534, 578, 586, 623, 723, 772, 787, 813, 872, 875, 880, 894, 901, 904
<i>An. culicifacies</i>	45, 97, 225, 325, 359, 410, 441, 490, 502, 506, 578, 586, 598, 666, 723, 769, 772, 837, 872, 880, 907
<i>An. messeae</i>	17, 122, 209, 329, 340, 351, 393, 514, 534, 636, 856
<i>An. bengalensis</i>	325, 416-418, 441, 480, 527, 534, 755
<i>An. barbirostris</i>	73, 106, 124, 154, 325, 334, 337, 386, 410, 506, 527, 586, 599, 623, 626, 655, 656, 704, 772, 800, 801, 813, 872, 894, 904, 907
<i>An. kochi</i>	19, 20, 347, 410, 432, 506, 520, 527, 623, 626, 666, 772, 800, 819, 872, 907
<i>An. philippinensis</i>	137, 154, 325, 334, 347, 386, 432, 506, 520, 526, 527, 598, 626, 801, 802, 805, 819
<i>An. stephensi</i>	225, 334, 345, 410, 417, 426, 441, 520, 527, 534, 769
<i>An. sacharovi</i>	15, 171, 736

<i>An. sineroides</i>	14, 17, 19, 329, 505, 669
<i>An. aconitus</i>	42, 47, 137, 154, 334, 347, 386, 506, 527, 541, 586, 598, 623, 772, 800, 872
<i>An. subpictus</i>	154, 225, 263, 402, 417, 446, 502, 506, 527, 586, 769
<i>An. varuna</i>	334, 417, 502, 506, 769
<i>An. pseudowillmori</i>	410, 534, 723, 833, 875, 907, 911
<i>An. barbumbrosus</i>	334, 337, 441, 480, 506, 586, 772, 911
<i>An. kunmingensis</i>	82, 225, 359, 441, 467, 506, 723, 800
<i>An. aitkenii</i>	325, 417, 441, 599
<i>An. nitidus</i>	417, 441, 442
<i>An. dirus</i>	25, 93, 147, 223, 256, 334, 386, 844
<i>An. crawfordi</i>	137, 386, 599, 872, 880
<i>An. gigas simlensis</i>	324, 325, 534, 880
<i>An. claviger</i>	15, 171, 902
<i>An. willmori</i>	534, 833, 911
<i>An. indefinitus</i>	73, 141, 149, 347, 402
<i>An. karwari</i>	154, 347, 527
<i>An. argyropus</i>	490, 534, 772
<i>An. freyi</i>	325, 441
<i>An. xui</i>	410
<i>An. koreicus</i>	17
<i>An. interruptus</i>	534
<i>An. liangshanensis</i>	387
<i>An. ramsayi</i>	86
<i>An. hailarensis</i>	427
<i>An. sintonoides</i>	658
<i>An. menglangensis</i>	283
<i>Culex</i>	1, 2, 4-7, 9, 11-18, 20, 21, 27-34, 36, 38, 42-45, 47-54, 56, 57, 64, 65, 67, 68, 71-73, 75, 77-79, 84, 85, 91, 96, 100-106, 109, 111, 112, 115-117, 119-122, 124, 126, 127, 135-146, 150, 153-155, 160, 163, 165, 167-172, 174-176, 180-182, 184, 190, 193, 195, 198-201, 203, 206, 209, 213, 214, 216, 220, 222, 224, 225, 227, 228, 230, 232, 233, 236, 237, 241-246, 249, 251, 253, 255, 256, 262-265, 268, 270, 272, 274, 277, 279, 280, 285, 286, 289, 292, 295, 300, 305, 306, 308, 309, 312, 315, 319, 323-327, 329, 334-336, 338-342, 344-348, 351-355, 358, 359, 364, 365, 368, 370, 372, 376-378, 382, 383, 385, 387-389, 393-395, 398, 399, 401-404, 406-408, 410, 411, 413-420, 422-424, 428, 430-436, 438, 440, 441, 447, 449, 450, 452-454, 456, 457, 462, 463, 465-467, 469-473, 475, 476, 480-482, 485, 487-489, 491-501, 503-510, 513-517, 519, 522, 525-527, 529, 533-535, 541-547, 550, 552-555, 557-562, 564-566, 568, 569, 571-581, 585, 587, 588, 591-594, 596, 597, 599-605, 607, 608, 610, 613-616, 618, 620, 622-624, 626-629, 631, 633, 634, 636, 638, 641-650, 652, 655, 656, 658-662, 664, 665, 668-671, 673-679, 681-687, 689, 690, 692, 693, 695-697, 699-702, 704-706, 708, 710, 712, 713, 715, 717-720, 725-729, 733-741, 743-745, 747, 748, 750-752, 754-757, 760-767, 769-771, 773-776, 778-781, 783, 784, 786-793, 795, 796, 798, 800-814, 816-819, 821, 823, 824, 826, 828, 831, 833, 835, 840, 842, 843, 845, 847-861, 863-868, 870-878, 880-890, 892, 894-896, 898-907, 910-917, 919, 920, 922
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<i>Ae. caspius</i>	3, 15, 69, 122, 171, 175, 176, 209, 224, 319, 320, 340, 351, 398, 588, 697, 711, 785, 790, 854, 856, 890, 901, 902
<i>Ae. hatorii</i>	14, 265, 325, 329, 334, 335, 345, 358, 398, 416-418, 441, 505, 599, 697
<i>Ae. koreicus</i>	14, 17, 51, 141, 175, 265, 272, 325, 329, 353, 413, 420, 441, 496, 497, 505, 522, 553, 697
<i>Ae. annandalei</i>	20, 57, 80, 137, 195, 203, 210, 265, 410, 441, 445, 506, 527, 534, 557, 580, 599, 608, 613, 626, 634, 655, 683, 704, 769, 800, 801, 803, 819, 833, 848, 857, 872, 920
<i>Ae. chemulpoensis</i>	14, 17, 51, 265, 325, 329, 335, 339, 353, 364, 413, 497, 505, 513, 697
<i>Ae. craggi</i>	52, 57, 80, 101, 160, 325, 368, 410, 417-419, 441, 471, 599, 655, 658, 755, 788, 833, 848, 920
<i>Ae. aegypti</i>	8, 59, 60, 80, 154, 155, 162, 185, 190-192, 205, 210, 236-239, 245, 256, 317, 347, 349, 357, 367, 392, 417, 435, 445, 523, 541, 611-613, 625, 640, 650, 656, 688, 742, 759, 822, 825, 838, 893
<i>Ae. excrucians</i>	2, 17, 73, 141, 175, 176, 319, 328, 329, 393, 398, 514, 636
<i>Ae. flavescens</i>	2, 15, 17, 73, 141, 145, 209, 329, 393, 636, 686
<i>Ae. punctor</i>	2, 17, 325, 329, 393, 505, 636, 669
<i>Ae. fengi</i>	52, 160, 203, 265, 325, 368, 416-419, 441, 471, 599, 755, 775
<i>Ae. togoi</i>	14, 57, 101, 138, 329, 342, 343, 413, 417, 420, 496, 505, 697, 780, 828, 840, 915
<i>Ae. harveyi</i>	20, 57, 135, 160, 325, 345, 416-419, 506, 527, 534, 658, 755, 833, 848
<i>Ae. cinereus</i>	2, 17, 328, 329, 393, 636
<i>Ae. lineatopennis</i>	17, 20, 106, 225, 265, 325, 329, 417, 478, 506, 527, 534, 557, 580, 623, 626, 697, 800, 802-804, 813, 848, 872
<i>Ae. macfarlanei</i>	52, 57, 95, 101, 198, 334, 368, 398, 416-418, 471, 527, 534, 697, 886
<i>Ae. cataphylla</i>	2, 17, 73, 175, 176, 329, 393, 636, 669
<i>Ae. assamensis</i>	95, 109, 325, 345, 458, 478, 506, 527, 534, 557, 580, 658, 683, 704, 800, 803
<i>Ae. diantaeus</i>	2, 17, 328, 329, 636, 669
<i>Ae. communis</i>	2, 17, 325, 329, 393, 636
<i>Ae. flavidorsalis</i>	15, 69, 175, 176, 319, 320, 329, 393, 398, 522, 697, 711, 785, 854, 890, 901
<i>Ae. pullatus</i>	2, 15, 175, 176, 329, 393, 636, 669, 697, 890
<i>Ae. cyprius</i>	2, 15, 73, 328, 329, 393, 636
<i>Ae. formosensis</i>	57, 101, 109, 225, 265, 417, 480, 506, 527, 534, 580, 626, 800, 801, 803, 819
<i>Ae. mercurator</i>	2, 329, 393, 636
<i>Ae. pulchriventer</i>	73, 141, 324, 325, 358, 458, 506, 534, 599
<i>Ae. yunnanensis</i>	325, 417, 441, 480, 599, 833
<i>Ae. esoensis</i>	2, 198, 329, 505
<i>Ae. mediopunctatus</i>	52, 57, 195, 345, 417, 527, 655, 848, 920
<i>Ae. leucomelas</i>	15, 17, 209, 329, 393, 636, 902
<i>Ae. shortti</i>	325, 334, 417, 418, 534
<i>Ae. detritus</i>	15, 209, 329, 393, 785, 890
<i>Ae. sinkiangensis</i>	15, 209
<i>Ae. sasai</i>	2, 329, 417, 505
<i>Ae. caecus</i>	206, 325, 432, 506, 527
<i>Ae. galloisi</i>	2, 14, 17, 329, 505, 553
<i>Ae. seoulensis</i>	265, 325, 329, 505, 513, 599, 775
<i>Ae. flavopictus</i>	14, 252, 325, 329, 505, 514, 553
<i>Ae. implicatus</i>	329, 636
<i>Ae. sticticus</i>	329, 636
<i>Ae. malikuli</i>	52, 57, 95, 101, 135, 160, 417, 534, 588

<i>Ae. novoniveus</i>	57, 101, 203, 325, 417, 441, 534
<i>Ae. alboniveus</i>	160, 358, 417-419, 599, 755
<i>Ae. oreophilus</i>	225, 325, 358, 458, 506, 534, 599, 775
<i>Ae. niveoides</i>	265, 410, 416, 417, 432, 441, 453, 506, 526
<i>Ae. nipponicus</i>	325, 329, 345, 417, 599
<i>Ae. eldridgei</i>	324, 335, 527, 580
<i>Ae. saxicola</i>	334, 441, 527, 613, 704
<i>Stegomyia</i>	580, 626, 658, 800, 803, 920
<i>gardneriimitator</i>	
<i>Leicester</i>	
<i>Ae. prominens</i>	265, 345, 417, 775, 800
<i>Ae. longifilamentus</i>	15, 332
<i>Ae. desmotes</i>	195, 580, 626, 788, 920
<i>Ae. mediolineatus</i>	527, 736
<i>Ae. perplexus</i>	109, 325, 418, 599
<i>Ae. watteni</i>	14, 198, 265
<i>Ae. alboscuteatus</i>	265, 325, 334, 634, 788, 800
<i>Ae. vittatus</i>	334, 441, 527, 736
<i>Ae. albolineatus</i>	73, 141, 334, 658
<i>Ae. chrysolineatus</i>	109, 506, 613, 655
<i>Ae. pionips</i>	329, 636
<i>Ae. mubiensis</i>	198, 208, 527, 534
<i>Ae. dissimilis</i>	95, 417, 534, 658
<i>Ae. intrudens</i>	329, 636
<i>Ae. riparius</i>	329, 393
<i>Ae. tonkinensis</i>	265, 432, 534
<i>Ae. peipingensis</i>	325
<i>Ae. omorii</i>	410, 658, 848
<i>Ae. gilli</i>	141, 458, 775
<i>Ae. sibiricus</i>	2, 14
<i>Ae. albotaeniatus</i>	506, 534
<i>mikiranus</i>	
<i>Ae. sedaensis</i>	196, 873
<i>Ae. galloisiodes</i>	198
<i>Ae. christophersi</i>	197, 527
<i>Ae. sergievi</i>	329, 398, 697
<i>Ae. hurlbuti</i>	198
<i>Ae. subalbopictus</i>	198, 402
<i>Ae. aureostriatus</i>	334, 658
<i>Ae. whartoni</i>	534
<i>Ae. kasachstanicus</i>	209
<i>Ae. ningheensis</i>	599, 873
<i>Ae. riparioides</i>	331, 393
<i>Ae. lasaensis</i>	534
<i>gyirongensis</i>	
<i>Ae. chungi</i>	506
<i>Ae. lasaensis</i>	325, 534
<i>Ae.</i>	582
<i>occidentyunnanensi</i>	
<i>s</i>	

<i>Ae. unicinctus</i>	458, 775
<i>Ae. hexodontus</i>	333
<i>Ae. antuensis</i>	329
<i>Ae. alekurrovi</i>	329
<i>Ae. koreicoides</i>	329
<i>Ae. gonguoensis</i>	198
<i>Ae. novalbopictus</i>	658
<i>Ae. malayensis</i>	658
<i>Ae. vigilax</i>	334
<i>Ae. rhungkianensis</i>	487
<i>Ae. ibis</i>	527
<i>Ae. andamanensis</i>	130
<i>Armigeres</i>	6, 7, 9, 20, 27, 38, 42, 43, 52, 56, 57, 68, 71, 73, 75, 77, 78, 80, 89-91, 100, 101, 103, 106, 109, 112, 114, 115, 119-121, 136, 138, 141-145, 154, 155, 163, 165, 167, 169, 180, 184, 193, 195, 203, 213, 214, 216, 222, 225, 227, 236, 237, 244, 246, 249, 251, 256, 265, 270, 272, 279, 285, 289, 292, 312, 315, 325, 326, 334, 335, 339, 342, 344, 345, 347, 348, 358, 368, 372, 377, 378, 387, 388, 394, 401-403, 408, 410, 413, 416-419, 422, 429, 432-434, 438, 441, 449, 450, 454, 465-467, 469-473, 495, 497-499, 501, 506, 508, 517, 526, 527, 534, 541, 544-546, 552, 555, 557, 560, 565, 572, 574, 578-580, 587, 592-594, 597, 599, 600, 603, 605, 613, 619, 623, 626, 629, 631, 634, 638, 641, 642, 645, 646, 655, 656, 658, 660, 662, 663, 668, 677, 682, 683, 685, 689, 697, 700, 702, 704, 705, 715, 719, 722, 724, 725, 733, 737-740, 743, 745, 747, 754-756, 761, 763, 769-771, 773, 776, 780, 781, 787, 788, 793, 795, 800-803, 807, 809, 810, 812, 813, 816-819, 821, 830, 831, 833, 845, 848, 853, 861, 863-865, 872, 875, 877, 880, 882-886, 888, 892, 894, 896, 899, 903, 904, 906, 907, 910, 911, 913, 914, 916, 919, 920
<i>Ar. subalbatus</i>	6, 7, 9, 20, 27, 38, 42, 43, 52, 56, 57, 68, 71, 73, 75, 77, 78, 80, 91, 100, 101, 103, 106, 109, 112, 114, 115, 119-121, 136, 138, 141-145, 154, 155, 163, 165, 167, 169, 180, 184, 193, 195, 203, 213, 214, 216, 222, 225, 227, 236, 237, 244, 246, 249, 251, 256, 265, 270, 272, 279, 285, 289, 292, 312, 315, 325, 326, 334, 335, 339, 342, 344, 347, 348, 358, 368, 372, 377, 378, 387, 388, 394, 401-403, 408, 410, 413, 416-419, 422, 429, 432-434, 438, 441, 449, 450, 454, 465-467, 469-473, 495, 497-499, 501, 506, 508, 517, 526, 527, 534, 541, 544-546, 552, 555, 557, 560, 565, 572, 574, 578-580, 587, 592-594, 597, 599, 600, 603, 605, 613, 619, 623, 626, 629, 631, 634, 638, 641, 642, 645, 646, 655, 656, 658, 660, 662, 663, 668, 677, 682, 683, 685, 689, 697, 700, 702, 704, 705, 715, 719, 722, 725, 733, 737, 739, 740, 743, 745, 747, 754-756, 761, 763, 769-771, 773, 776, 780, 781, 787, 793, 795, 800-803, 807, 809, 810, 812, 813, 816-819, 821, 830, 831, 833, 845, 848, 853, 861, 863-865, 872, 875, 877, 880, 882-886, 888, 892, 894, 896, 899, 903, 904, 906, 907, 910, 911, 913, 914, 916, 919, 920
<i>Ar. durhami</i>	90, 106, 225, 325, 408, 410, 416-418, 506, 534, 599, 724, 800, 833, 848, 911
<i>Ar. magnus</i>	90, 154, 417, 506, 527, 534, 655, 800, 819, 920
<i>Ar. annulitarsis</i>	90, 580, 626, 655, 788, 819, 894, 920
<i>Ar. flavus</i>	90, 109, 527, 534, 626, 655, 769, 801, 819, 920
<i>Ar. longipalpis</i>	90, 655, 848, 920
<i>Ar. digitatus</i>	90, 109, 534, 655, 819, 894, 920
<i>Ar. annulipalpis</i>	90, 527, 819, 848
<i>Ar. omissus</i>	90, 655, 800, 819, 872, 920
<i>Ar. inchoatus</i>	109, 506, 527, 534, 580, 623, 655, 738, 788, 800, 819, 848, 872, 920
<i>Ar. seticoxitis</i>	90, 534, 599
<i>Ar. theobaldi</i>	90, 527, 599, 894, 920
<i>Ar. baisasi</i>	109, 534, 599
<i>Ar. aureolineatus</i>	141, 334, 599
<i>Ar. malayi</i>	345, 819
<i>Ar. menglaensis</i>	848
<i>Ar. lepidocoxitis</i>	89
<i>Culiseta</i>	2, 15, 17, 104, 122, 175, 198, 209, 224, 265, 278, 325, 329, 340, 351, 358, 393, 441, 505, 522, 534, 599, 636, 669, 697, 833, 875, 902
<i>Cs. niveitaeniata</i>	175, 224, 265, 325, 358, 441, 522, 534, 599, 697, 833, 875
<i>Cs. alaskaensis</i>	15, 175, 209, 329, 340, 393, 505, 636, 902
<i>Cs. bergrothi</i>	2, 198, 278, 329, 393, 505, 636, 833
<i>Cs. annulata</i>	15, 122, 209, 340, 351
<i>Cs. nipponica</i>	2, 17, 329, 636, 669, 902
<i>Cs. sinensis</i>	325
<i>Cs. mengaloba</i>	2, 104
<i>Tripteroides</i>	52, 57, 101, 109, 135, 160, 203, 244, 265, 285, 325, 329, 334, 345, 368, 402, 410, 416-419, 429, 441, 466, 471, 505, 506, 527, 534, 553, 599, 655, 657, 658, 704, 755, 775, 800, 801, 848, 894, 920
<i>Tr. bambusa</i>	52, 57, 101, 160, 203, 265, 325, 329, 334, 368, 416-419, 429, 441, 466, 471, 505, 553, 599, 658, 755, 775

<i>Tr. aranoides</i>	52, 57, 101, 109, 244, 285, 325, 334, 368, 402, 416-418, 441, 506, 527, 534, 599, 655, 704, 800, 801, 894, 920
<i>Tr. similis</i>	52, 109, 135, 160, 345, 368, 417-419, 534, 755
<i>Tr. palldothorax</i>	410, 848
<i>Tr. indicus</i>	441
<i>Tr. tarsalis</i>	657
<i>Tr. szechwanensis</i>	325
<i>Mansonia</i>	20, 73, 75, 77, 106, 136, 137, 141, 144, 145, 154, 163, 168, 209, 226, 227, 244, 251, 263, 265, 312, 325, 339, 364, 389, 398, 410, 413, 417, 428, 432, 441, 447, 491, 506, 527, 534, 557, 599, 605, 623, 626, 662, 689, 693, 697, 720, 728, 776, 800-804, 813, 819, 848, 856, 865, 872, 877, 894
<i>Ma. uniformis</i>	20, 77, 106, 136, 137, 141, 144, 145, 154, 163, 168, 209, 227, 244, 251, 263, 265, 312, 325, 339, 364, 389, 398, 410, 413, 417, 428, 441, 447, 491, 506, 527, 534, 557, 599, 605, 623, 626, 662, 689, 693, 697, 720, 728, 776, 800-804, 813, 819, 848, 865, 877, 894
<i>Ma. ochracea</i>	73, 141, 389
<i>Ma. annulifera</i>	800, 872, 894
<i>Ma. crassipes</i>	145, 417, 432
<i>Ma. bonneae</i>	75, 226
<i>Ma. richiardi</i>	209, 856
<i>Ma. dives</i>	872
<i>Uranotaenia</i>	52, 57, 101, 109, 145, 160, 198, 225, 244, 265, 307, 325, 334, 345, 368, 384, 416-419, 432, 466, 471, 480, 506, 527, 534, 599, 623, 658, 694, 704, 755, 800, 872, 873, 880, 894
<i>Ur. novobscura</i>	52, 57, 101, 109, 160, 225, 244, 325, 334, 368, 416-419, 471, 506, 534, 599, 658, 704, 755, 872, 880, 894
<i>Ur. macfarlanei</i>	57, 109, 265, 325, 417, 418, 480, 527
<i>Ur. maxima</i>	345, 416-418, 623, 872
<i>Ur. nivipleura</i>	325, 417, 534, 623, 658, 800, 880, 894
<i>Ur. annandalei</i>	57, 198, 334, 417, 418, 480
<i>Ur. bicolor</i>	198, 417, 418, 534
<i>Ur. bimaculata</i>	527
<i>Ur. koli</i>	57, 694
<i>Ur. enigmatica</i>	694, 894
<i>Ur. abdita</i>	334, 506
<i>Ur. hebes</i>	384, 417, 418
<i>Ur. recondita</i>	145, 658
<i>Ur. campestris</i>	466
<i>Ur. spiculosa</i>	109
<i>Ur. lutescens</i>	109
<i>Ur. testacea</i>	894
<i>Ur. leiboensis</i>	307
<i>Ur. unguiculata</i>	432
<i>Ur. jacksoni</i>	325
<i>Ur. yaeyamana</i>	198
<i>Ur. mengi</i>	873
<i>Toxorhynchites</i>	57, 102, 103, 109, 160, 203, 244, 265, 325, 329, 330, 334, 345, 416-419, 441, 458, 506, 527, 534, 613, 642, 658, 755, 775, 910
<i>Tx. gravelyi</i>	57, 109, 160, 203, 325, 334, 345, 416-419, 441, 506, 534, 755
<i>Tx. Splendens</i>	102, 103, 109, 244, 506, 527, 642, 910
<i>Tx. edwardsi</i>	109, 160, 265, 325, 417-419
<i>Tx. aurifluus</i>	458, 658, 775
<i>Tx. changbaiensis</i>	329, 330
<i>Tx. splendenroides</i>	613
<i>Tx. nigerrimus</i>	613
<i>Tx. kemp</i>	109
<i>Orthopodomyia</i>	52, 57, 109, 134, 265, 325, 334, 368, 416-419, 441, 471, 506, 527, 534, 658, 755, 775, 848
<i>Or. anopheloides</i>	52, 57, 109, 265, 325, 368, 416-419, 441, 471, 506, 527, 534, 658, 755, 775, 848

<i>Or. andamanensis</i>	134
<i>Or. albipes</i>	334
<i>Mimomyia</i>	52, 106, 160, 265, 345, 410, 417, 527, 534, 578, 623, 755, 872, 880
<i>Mi. luzonensis</i>	52, 106, 265, 410, 417, 527, 534, 578, 623, 872, 880
<i>Mi. fusca</i>	160, 345, 417, 755
<i>Mi. chamberlaini</i>	527
<i>Heizmannia</i>	52, 57, 87, 101, 132, 334, 368, 417-419, 506, 527, 534, 580, 613, 626, 655, 658, 800, 801, 803, 819, 920
<i>He. reidi</i>	334, 534, 580, 613, 626, 658, 800, 801, 803, 819, 920
<i>He. lii</i>	52, 57, 101, 368, 417-419, 658, 819
<i>He. macdonaldi</i>	534, 580, 655, 801
<i>He. chengi</i>	506, 534, 658
<i>He. menglianensis</i>	580, 800
<i>He. taiwanensis</i>	334, 658
<i>He. Lui</i>	132
<i>He. ruiliensis</i>	87
<i>He. achaetae</i>	658
<i>He. proxima</i>	334
<i>He. covelli</i>	527
<i>Topomyia</i>	81, 83, 86, 88, 109, 128, 129, 131, 133, 152, 271, 325, 334, 527, 534, 599, 873
<i>To. houghtoni</i>	86, 109, 152, 325, 334, 527, 534, 599
<i>To. zhangii</i>	131, 152, 534
<i>To. hirtysa</i>	86, 129, 152, 534
<i>To. lindsayi</i>	86, 109
<i>To. inclinata</i>	109, 133
<i>To. apsarae</i>	83
<i>To. hirtusa</i>	88
<i>To. longisetosa</i>	86
<i>To. baolini</i>	86
<i>To. cristata</i>	86, 128
<i>To. sylvatica</i>	271
<i>To. yanbaresoides</i>	81
<i>To. bannaensis</i>	873
<i>To. dulongensis</i>	873
<i>To. mengi</i>	873
<i>To. margina</i>	873
<i>Coquillettia</i>	168, 364, 447, 491, 580, 728, 833, 894
<i>Co. ochracea</i>	168, 364, 447, 491, 580, 728
<i>Co. crassipes</i>	833, 894
<i>Malaya</i>	334, 417, 506, 527, 534, 626, 704
<i>Mal. genurostris</i>	334, 417, 506, 527, 534, 626, 704
<i>Mal. jacobsoni</i>	334
<i>Udaya argyrurus</i>	35, 109, 534
<i>Hodgesia bailyi</i>	158
<i>Ficalbia minima</i>	894

Supplementary Table S2. Information of data sources in this study.

Variable	Source	Note	Data period
Climate data	http://data.cma.cn/data/cdcdetail/dataCode/SURF_CLI_CHN_MUL_MM0N_19812010.html	The climate data are accessible in this website from 1981 to 2010. Data from 2010 to 2018 was accessible in past yet not open now, which can be accessible by contact the data source organization.	1981–2018
Land cover	https://www.resdc.cn/DataList1.aspx?FieldTyepID=1,3	A raster digital map with a resolution of 1km.	1985–2015
Livestock density	https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7927/H4T9-9Q93	Including the density of sheep, goat, cattle, pig, buffalo, duck and chicken with a resolution of 5 min of arc.	2010
Mammalian richness	https://sedac.ciesin.columbia.edu/data/set/species-global-mammal-richness-2015	Provide information on the number of mammal species present at a 1km spatial resolution.	2013
Population density and proportion of older and female	http://www.stats.gov.cn/tjsj/tjcb/tjzl/201303/t20130318_44794.html	The number of population, older and female at the county level.	2010

Supplementary Table S3. Potential risk factors at the county level used in the BRT model for mosquito species and 2-stage GBRT model for Dengue and JE.

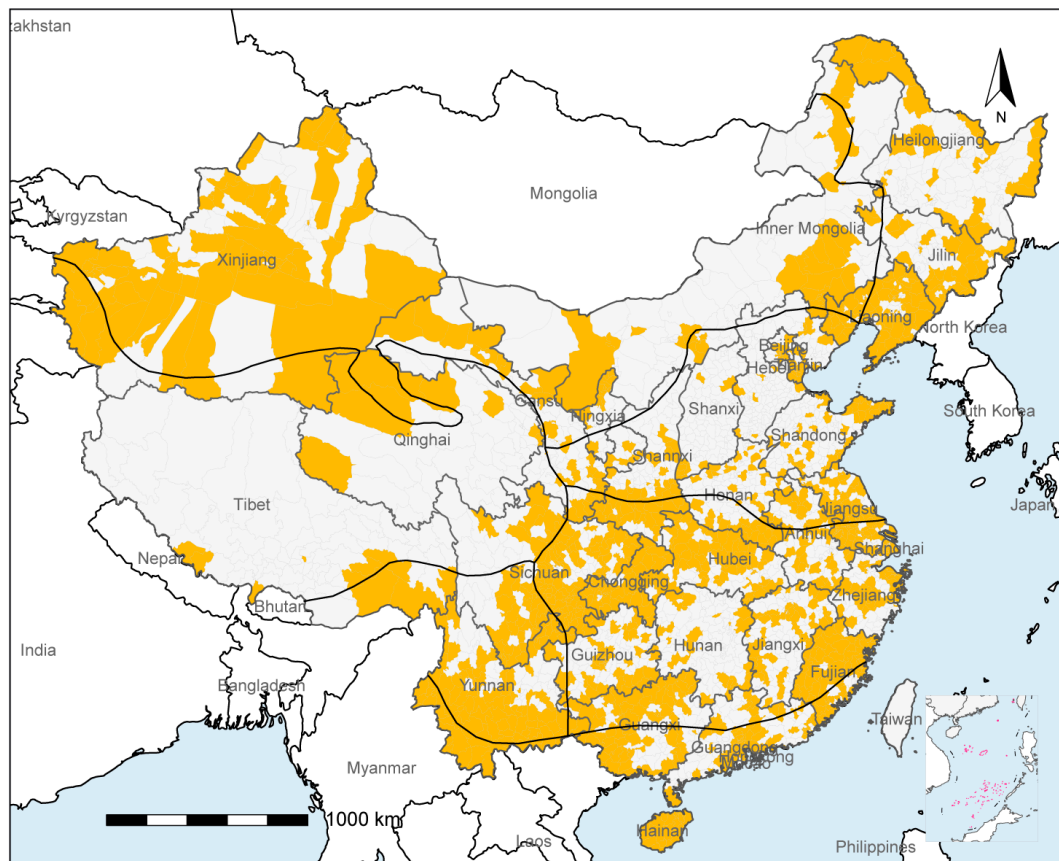
Category	Variables	Description (Unit)	Mosquitoes	Dengue	JE
Environmental	Plain	Situated on a plain	✓	✓	✓
	Basin	Situated in a basin	✓	✓	✓
	Mountain	Situated in a mountainous region	✓	✓	✓
	Hilly	Situated in a hilly region	✓	✓	✓
	Plateau	Situated on a plateau	✓	✓	✓
	Coastland	Situated in the seaside	✓	✓	✓
	Paddy field	Coverage of paddy field	✓	✓	✓
	Rainfed cropland	Coverage of rainfed cropland	✓	✓	✓
	Forest	Coverage of forest	✓	✓	✓
	Grassland	Coverage of grassland	✓	✓	✓
	River	Coverage of river	✓	✓	✓
	Permanent glacial snow	Coverage of permanent glacial snow	✓	✓	✓
	Lake and reservoir	Coverage of lake and reservoir	✓	✓	✓
	Mud flat and shoaly land	Coverage of mud flat and shoaly land	✓	✓	✓
	Rural settlement	Coverage of rural settlement	✓	✓	✓
	Other construction land	Coverage of other construction land (roads, mines, airports, etc.)	✓	✓	✓
	Saline and alkaline land	Coverage of saline and alkaline land	✓	✓	✓
	Marsh Land	Coverage of marsh land	✓	✓	✓
Ecoclimatic	Bio1	Annual average temperature (°C)	✓	✓	✓
	Bio2	Mean diurnal range (Mean of monthly max - min temperature) (°C)			
	Bio3	Isothermality (BIO02 ÷ BIO07 × 100)	✓	✓	✓
	Bio4	Temperature seasonality (standard deviation × 100)	✓	✓	✓
	Bio5	Max temperature of warmest month (°C)			
	Bio6	Min temperature of coldest month (°C)			
	Bio7	Annual range of temperature (BIO05-BIO06) (°C)			
	Bio8	Mean temperature of wettest quarter (°C)	✓	✓	✓
	Bio9	Mean temperature of driest quarter (°C)			
	Bio10	Mean temperature of warmest quarter (°C)	✓	✓	✓
	Bio11	Mean temperature of coldest quarter (°C)			
	Bio12	Annual cumulative precipitation (mm)	✓	✓	✓
	Bio13	Precipitation of wettest month (mm)			
	Bio14	Precipitation of driest month (mm)			

Social	Bio15	Precipitation seasonality (Coefficient of variation)	✓	✓	✓
	Bio16	Precipitation of wettest quarter (mm)			
	Bio17	Precipitation of driest quarter (mm)	✓	✓	✓
	Bio18	Precipitation of warmest quarter (mm)			
	Bio19	Precipitation of coldest quarter (mm)			
	Index of case importation	Logarithmic transformed number of imported dengue cases		✓	
	Over 60 years old	Proportion of ≥60 years old		✓	✓
	Female	Proportion of female population		✓	✓
	General hospital	Number of general hospitals		✓	✓
	Specialty hospital	Number of specialty hospitals		✓	✓
	Clinics	Number of clinics hospitals		✓	✓
	Health centers	Number of health centers		✓	✓
	Emergency Rooms	Number of ERs		✓	✓
Biological	Population density	Human population density (persons per km ²)	✓	✓	✓
	Sheep	Density of sheep (10 heads per km ²)	✓	✓	✓
	Goat	Density of goat (10 heads per km ²)	✓	✓	✓
	Cattle	Density of cattle (10 heads per km ²)	✓	✓	✓
	Pig	Density of pig (10 heads per km ²)	✓	✓	✓
	Buffalo	Density of buffalo (10 heads per km ²)	✓	✓	✓
	Duck	Density of duck (10 heads per km ²)	✓	✓	✓
	Chicken	Density of chicken (10 heads per km ²)	✓	✓	✓
	Mammalian richness	The number of mammal species per km ²	✓	✓	✓
	<i>Cx. tritaeniorhynchus</i>	Presence possibility of <i>Cx. tritaeniorhynchus</i>			✓
	<i>Cx. pipiens quinquefasciatus</i>	Presence possibility of <i>Cx. pipiens quinquefasciatus</i>			✓
	<i>Cx. pipiens pallens</i>	Presence possibility of <i>Cx. pipiens pallens</i>			✓
	<i>An. sinensis</i>	Presence possibility of <i>An. sinensis</i>			✓
	<i>Ae. albopictus</i>	Presence possibility of <i>Ae. albopictus</i>		✓	
	<i>Ae. aegypti</i>	Presence possibility of <i>Ae. aegypti</i>		✓	

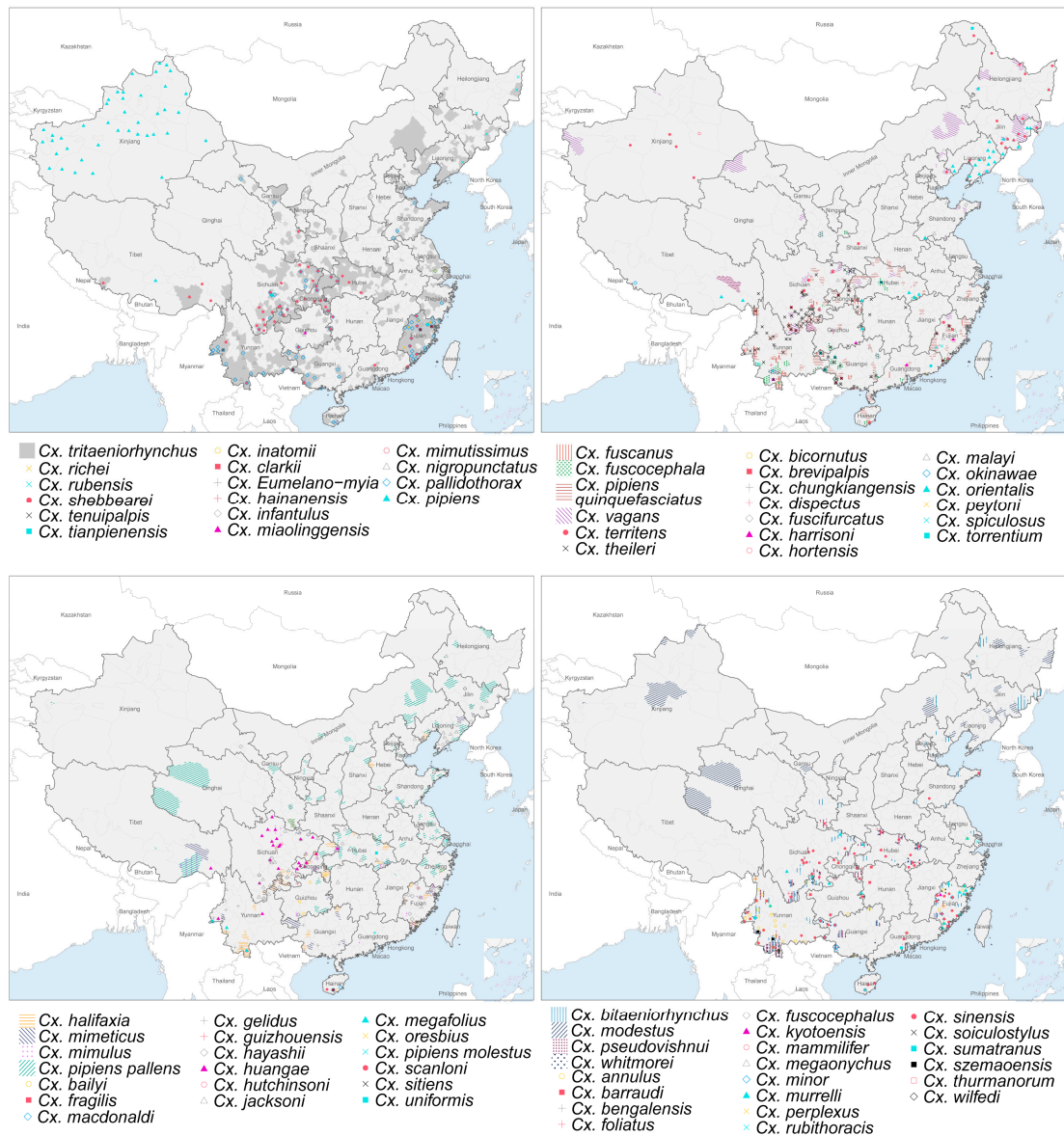
Supplementary Table S4. Clustering analysis of eco-climatic predictors at the county level based on pairwise Pearson correlation coefficients.

	bio1*	bio2*	bio3*	bio4*	bio5*	bio6	bio7	bio8	bio9	bio10	bio11	bio12*	bio13	bio14	bio15*	bio16	bio17*	bio18	bio19
bio1						0.967			0.962		0.965								
bio2																			
bio3																			
bio4							0.967												
bio5								0.815		0.880									
bio6									0.965		0.992								
bio7																			
bio8										0.934									
bio9											0.975								
bio10																			
bio11																			
bio12													0.961			0.973		0.893	
bio13																0.993		0.950	
bio14																	0.970		0.924
bio15																			
bio16																		0.955	
bio17																			0.981
bio18																			
bio19																			

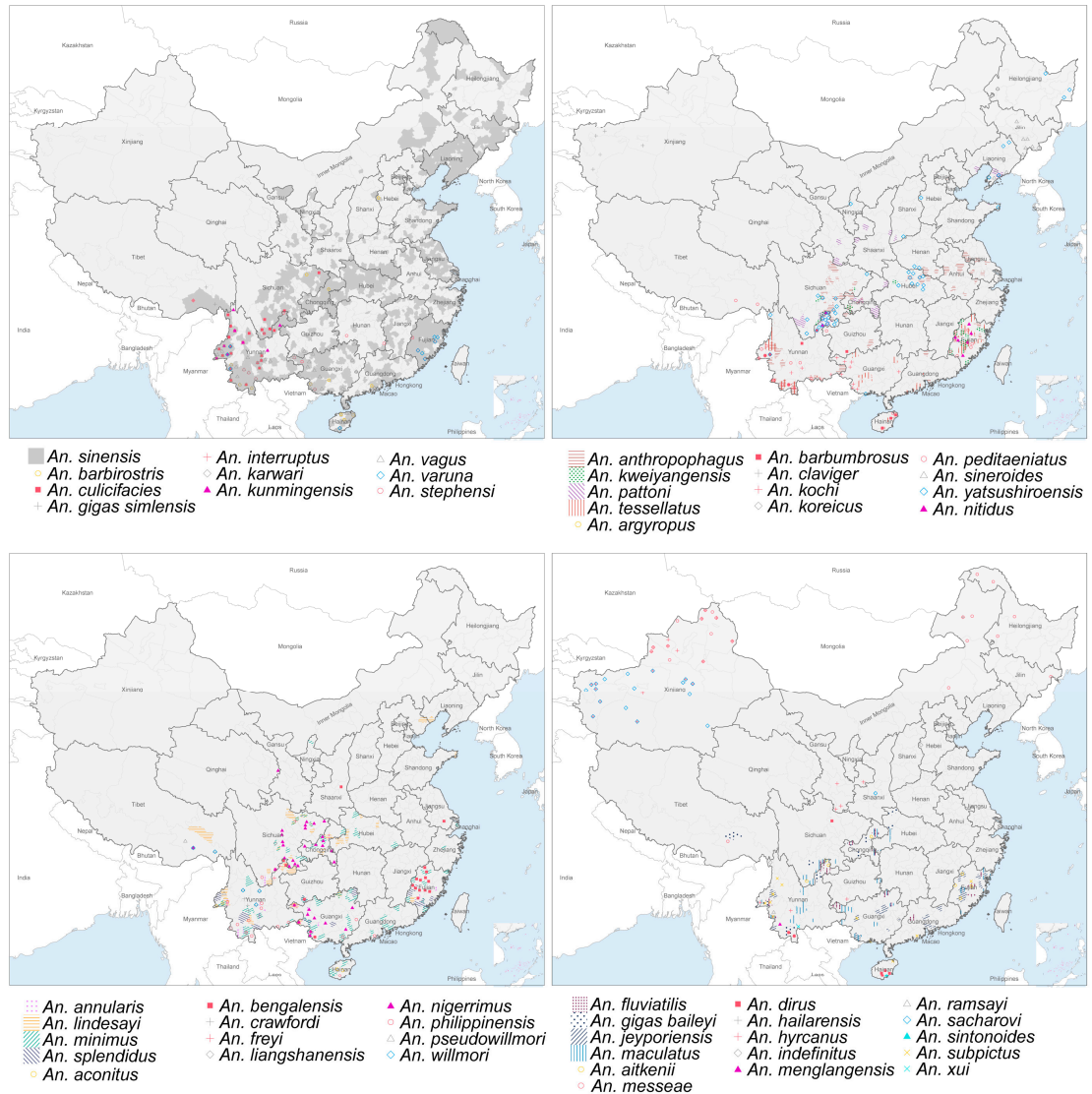
Pairwise correlations above 0.8 are shown, and blank off-diagonal cells all have correlations < 0.8. Predictors grouped to the same cluster are colored the same. From each cluster, only one predictor (marked with *) is chosen to be used in county-level BRT models to avoid multicollinearity.



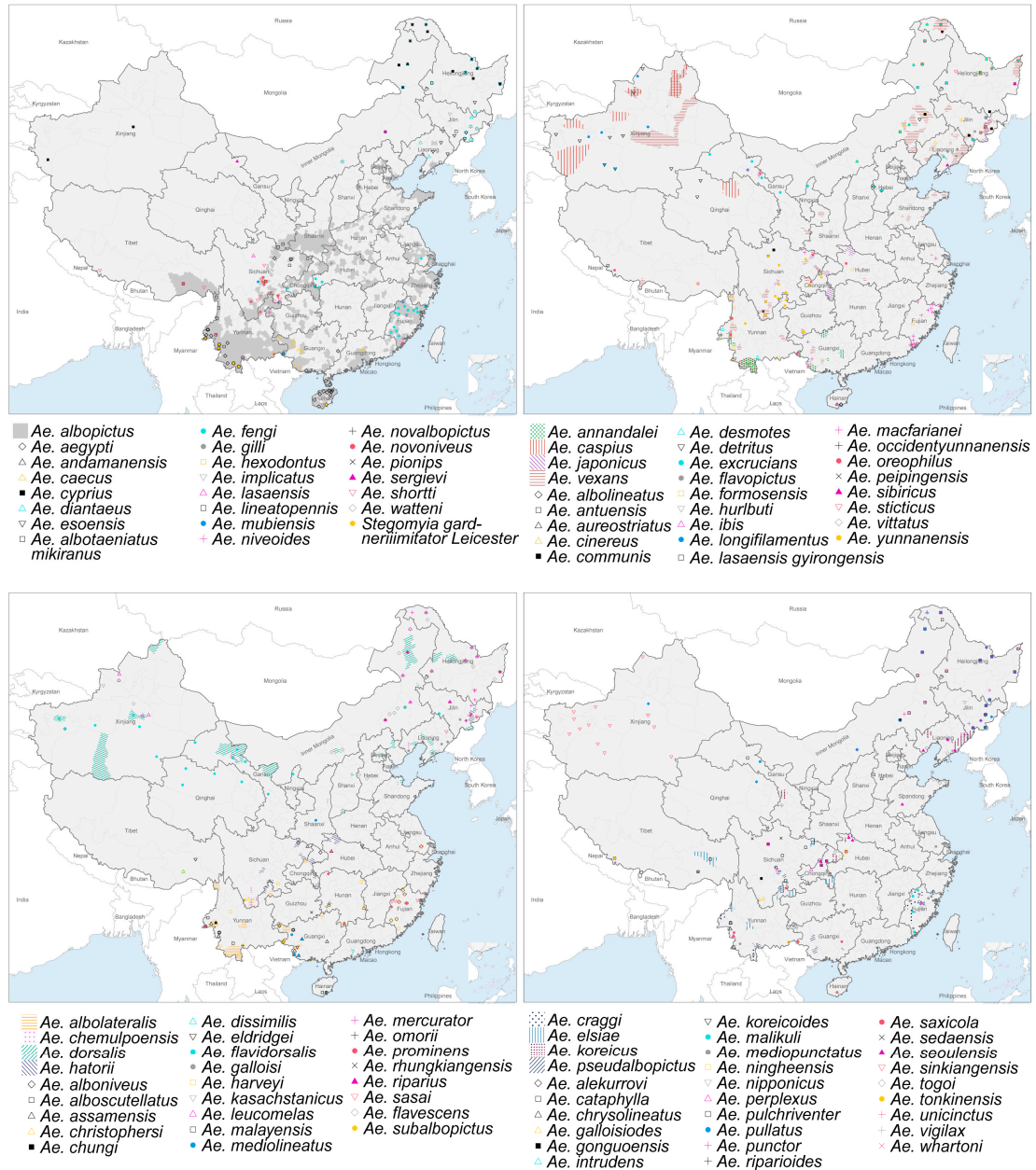
Supplementary Figure S2 The spatial distribution of the 1228 counties with at least one record of mosquitoes (yellow) from 1954 to 2020, China. Source data are provided as a Source Data file.



Supplementary Figure S3 The spatial distribution of the mosquito genus *Culex* recorded at the county level from 1954 to 2020 in China. Source data are provided as a Source Data file.



Supplementary Figure S4 The spatial distribution of the mosquito genus *Anopheles* recorded at the county level from 1954 to 2020 in China. Source data are provided as a Source Data file.



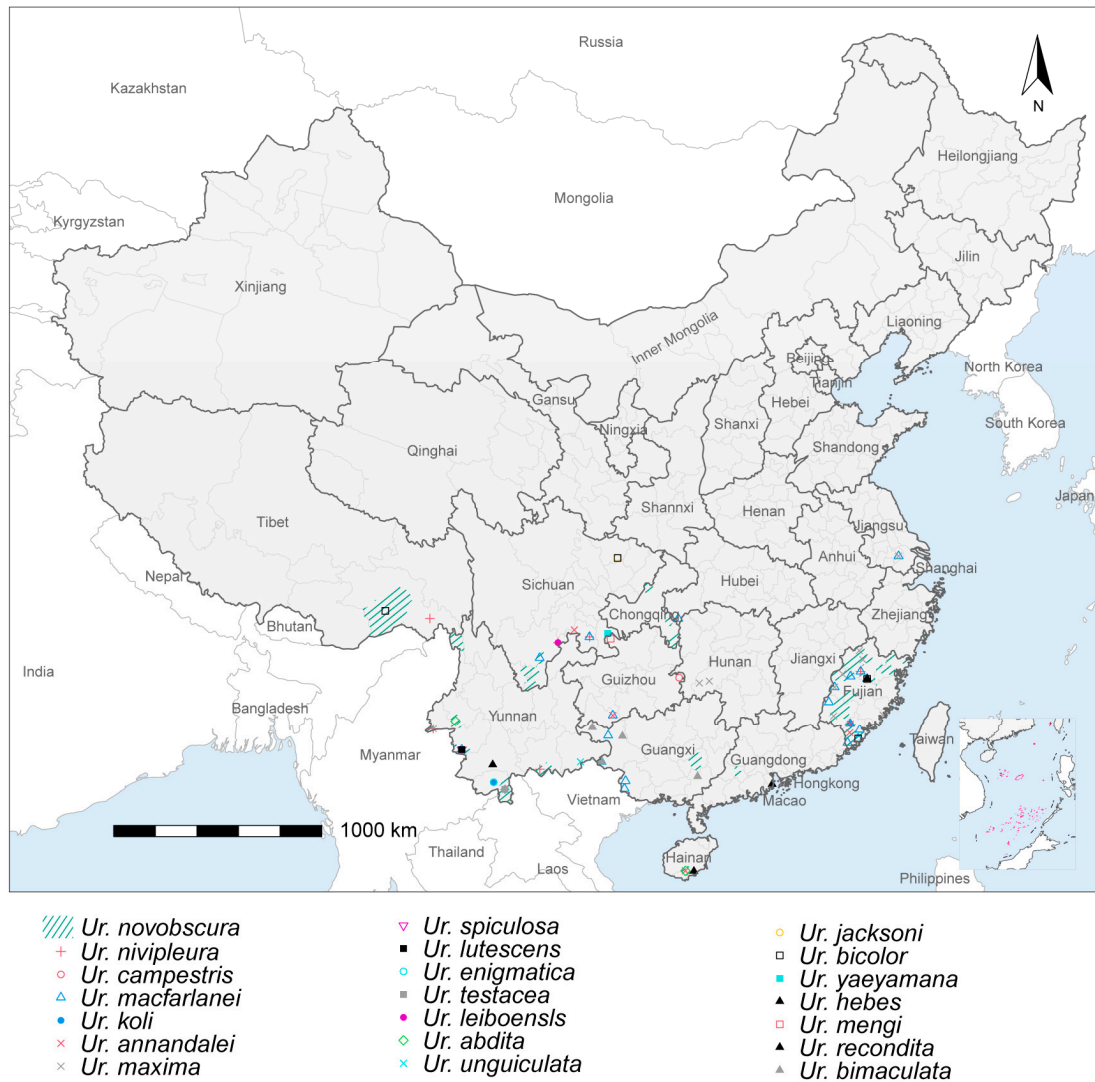
Supplementary Figure S5 The spatial distribution of the mosquito genus *Aedes* recorded at the county level from 1954 to 2020 in China. Source data are provided as a Source Data file.



Supplementary Figure S6 The spatial distribution of the mosquito genus *Armigeres* recorded at the county level from 1954 to 2020 in China. Source data are provided as a Source Data file.



Supplementary Figure S7 The spatial distribution of the mosquito genus *Topomyia* recorded at the county level from 1954 to 2020 in China. Source data are provided as a Source Data file.

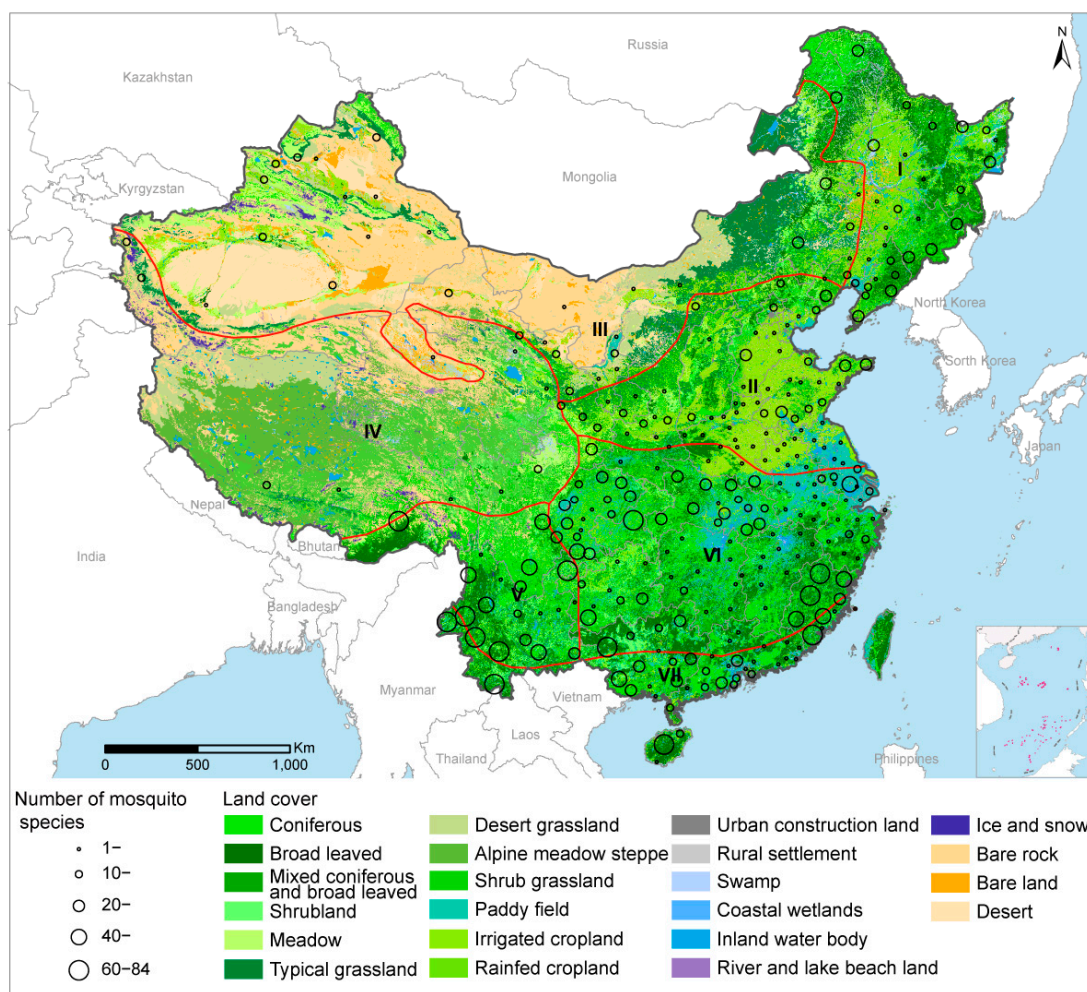


Supplementary Figure S8 The spatial distribution of the mosquito genus *Uranotaenia* recorded at the county level from 1954 to 2020 in China. Source data are provided as a Source Data file.



Supplementary Figure S9 The spatial distribution of the mosquito genus *Heizmannia* recorded at the county level from 1954 to 2020 in China. Source data are provided as a Source Data file.





Supplementary Figure S11 Mosquito species richness (circles) at the prefecture level in seven biogeographic zones in mainland China from 1954 to 2020.

I=Northeast district (NE), II=North China district (N), III=Inner Mongolia-Xinjiang district (IMX), IV= Qinghai-Tibet district (QT), V=Southwest China district (SW), VI=Central China district (C) and VII=South China district (S).

Supplementary Table S5. BRT-model-estimated mean (standard deviation) relative contributions of top factors (RC≥5%) to the spatial distribution of three most prevalent mosquito species in the *Anopheles* genus.

Category	Variable	<i>An. sinensis</i>	<i>An. anthropophagus</i>	<i>An. minimus</i>	<i>An. maculatus</i>	<i>An. pattoni</i>	<i>An. lindesayi</i>	<i>An. jeyporiensis</i>	<i>An. tessellatus</i>
Environmental	Basin					6.21 (1.99)			
	Paddy Field	6.25 (1.62)	6.60 (1.67)						
	Rainfed Cropland					7.97 (1.70)			
	Forest				6.41 (1.49)	7.56 (1.81)	5.97 (1.99)		
	Lake and Reservoir							5.08 (1.45)	
	Rural Residential Land						9.51 (2.35)		
	Other Construction Land		5.31 (1.08)						
Ecoclimatic	Annual Mean Temperature		10.14 (2.61)	21.22 (5.39)		5.47 (1.44)		25.16 (4.08)	22.28 (5.05)
	Isothermality				5.05 (2.32)				8.63 (3.30)
	Temperature Seasonality		16.62 (2.27)	17.93 (4.56)	22.57 (3.24)	8.72 (2.11)		7.57 (1.84)	11.01 (3.61)
	Mean Temperature of Warmest Quarter		7.21 (1.67)						
	Total precipitation	42.03 (5.25)		11.27 (3.28)				15.03 (3.60)	9.70 (1.98)
	Precipitation of Driest Quarter	5.76 (1.27)				5.92 (1.08)		5.17 (1.50)	
	Population Density	6.65 (1.63)	5.78 (1.00)	12.16 (1.83)	5.96 (1.63)	5.03 (1.50)		5.33 (1.29)	
Biological factors	Mammalian Richness		6.15 (1.24)	7.62 (1.56)	6.85 (2.56)	7.13 (1.95)	10.86 (2.68)	6.45 (1.69)	
	Pig	5.72 (1.16)				6.43 (2.09)	5.79 (1.94)		
	Buffalo		12.99 (2.77)	8.99 (2.88)					
	Cattle		5.55 (1.03)						5.29 (1.50)
	Duck	9.14 (4.14)					5.28 (1.85)		6.18 (1.64)
	Goat			5.71 (1.07)				5.45 (1.32)	
	Sheep							5.21 (1.18)	

AUC	Train	0.982 (0.967, 0.996)	0.991 (0.984, 0.998)	0.955 (0.940, 0.972)	0.988 (0.976, 0.997)	0.993 (0.985, 0.999)	0.966 (0.945, 0.985)	0.987 (0.977, 0.996)	0.995 (0.988, 1.000)
	Test	0.874 (0.811, 0.920)	0.904 (0.874, 0.935)	0.859 (0.820, 0.893)	0.878 (0.817, 0.929)	0.873 (0.819, 0.926)	0.793 (0.715, 0.859)	0.906 (0.852, 0.955)	0.915 (0.873, 0.953)
Partial AUC Ratio	Train	1.15	1.62	1.61	1.76	1.78	1.80	1.80	1.81
	Test	1.13	1.61	1.55	1.72	1.67	1.59	1.80	1.81

Mean AUCs (95% percentiles) and partial area AUC ratio (calculated at tolerance level of 0.2) are given

Supplementary Table S6. BRT-model-estimated mean (standard deviation) relative contributions of top factors (RC≥5%) to the spatial distribution of three most prevalent mosquito species in the *Culex* genus.

Category	Variable	<i>Cx. tritaeniorhynchus</i>	<i>Cx. pipiens quinquefasciatus</i>	<i>Cx. pipiens pallens</i>	<i>Cx. bitaeniorhynchus</i>	<i>Cx. vagans</i>	<i>Cx. halifaxia</i>	<i>Cx. modestus</i>
Environmental	Rainfed Cropland							5.65 (1.30)
	Forest					10.16 (2.39)		5.31 (1.35)
	Grasslands						5.52 (1.28)	
	Lake and Reservoir				5.38 (1.62)			
	Rural Residential Land						7.97 (1.50)	
Ecoclimatic	Annual Mean Temperature	7.07 (1.77)	5.70 (1.38)			28.21 (4.30)		17.03 (6.19)
	Isothermality					6.16 (1.61)		
	Temperature Seasonality	13.55 (3.33)	59.87 (3.31)	61.01 (2.24)	8.88 (2.58)		13.11 (2.14)	44.59 (6.21)
	Mean Temperature of Warmest Quarter					11.03 (3.12)	6.02 (1.09)	5.50 (1.51)
	Total precipitation	11.77 (3.64)		12.67 (2.01)	11.74 (2.73)	10.19 (2.22)	7.50 (1.45)	
	Precipitation Seasonality	5.66 (1.06)		5.93 (1.03)	6.45 (1.61)	9.48 (2.14)		
Biological factors	Precipitation of Driest Quarter	7.06 (1.31)	6.38 (1.09)					
	Population Density	8.23 (2.75)						
	Mammalian Richness		5.96 (0.91)				5.68 (1.98)	
	Pig	13.46 (3.98)						
	Buffalo	5.35 (1.25)	6.77 (1.32)					
AUC	Duck	6.18 (1.52)			6.64 (1.88)	6.84 (1.70)	8.09 (1.60)	
	Train	0.973 (0.945, 0.991)	0.976 (0.967, 0.987)	0.990 (0.984, 0.995)	0.936 (0.900, 0.971)	0.930 (0.907, 0.957)	0.978 (0.953, 0.996)	0.982 (0.974, 0.991)
	Test	0.827 (0.771, 0.874)	0.897 (0.853, 0.930)	0.940 (0.910, 0.967)	0.682 (0.629, 0.734)	0.772 (0.690, 0.843)	0.756 (0.697, 0.818)	0.926 (0.876, 0.962)
Partial AUC Ratio	Train	1.23	1.42	1.44	1.57	1.67	1.70	1.75
	Test	1.19	1.35	1.42	1.18	1.46	1.47	1.72

Supplementary Table S6 continued

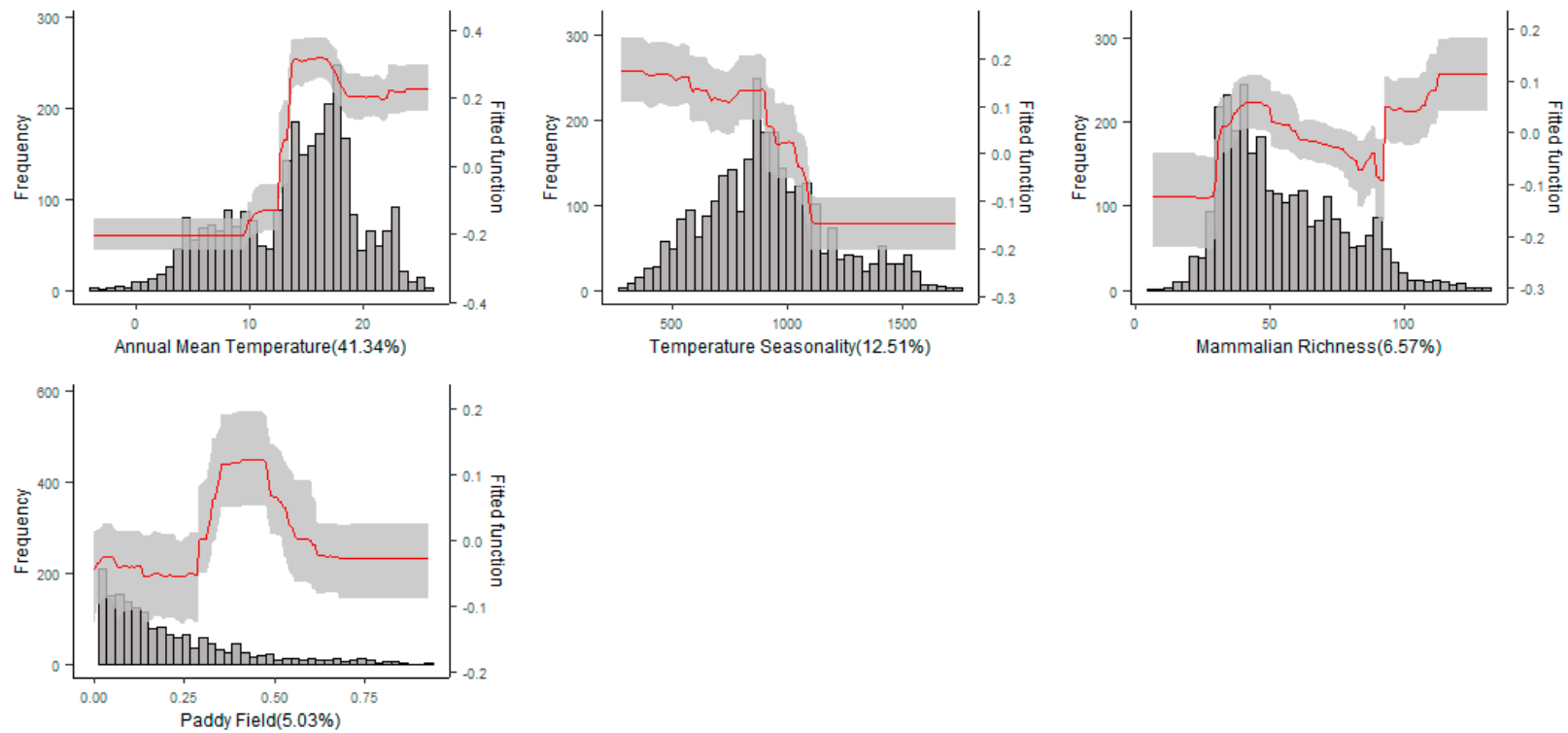
Category	Variable	<i>Cx. fuscatus</i>	<i>Cx. mimeticus</i>	<i>Cx. pseudovishnui</i>	<i>Cx. fuscocephala</i>	<i>Cx. whitmorei</i>	<i>Cx. mimulus</i>
Environmental	Paddy Field						6.28 (2.03)
	Forest		10.62 (2.26)				
	Grasslands					6.03 (1.39)	
	River				5.74 (2.03)	6.37 (1.89)	
	Lake and Reservoir				5.43 (1.77)	5.49 (1.73)	
	Rural Residential Land		5.63 (1.42)				11.24 (2.64)
	Other Construction Land						6.37 (1.88)
Ecoclimatic	Annual Mean Temperature				6.10 (2.28)		
	Isothermality		6.46 (1.53)	5.58 (2.14)	12.95 (4.99)		
	Temperature Seasonality	17.64 (2.73)	10.10 (2.18)	12.64 (3.62)	26.63 (5.85)	7.41 (2.95)	10.02 (2.25)
	Total precipitation	5.40 (1.50)	5.88 (1.59)	11.59 (2.55)	7.28 (2.24)	7.27 (1.88)	8.31 (2.11)
	Precipitation Seasonality	5.64 (1.32)	5.75 (1.32)				
	Precipitation of Driest Quarter	5.08 (1.46)	6.86 (1.45)	5.79 (1.79)		6.71 (1.98)	7.21 (1.85)
	Population Density			6.74 (1.96)	7.08 (2.45)		
Biological factors	Mammalian Richness		9.04 (2.71)	17.70 (3.94)	7.35 (2.66)	8.70 (3.24)	5.85 (1.71)
	Buffalo	5.49 (1.59)			5.86 (1.87)	8.64 (2.62)	
	Cattle	5.08 (1.17)					6.17 (1.83)
	Duck	5.33 (1.25)	5.78 (1.48)				
	Goat				5.44 (1.87)		6.93 (2.25)
	Sheep	5.26 (1.36)					5.20 (1.58)
	Train	0.979 (0.959, 0.994)	0.967 (0.929, 0.992)	0.969 (0.950, 0.986)	0.958 (0.940, 0.981)	0.978 (0.945, 0.998)	0.981 (0.960, 0.996)
AUC	Test	0.799 (0.742, 0.857)	0.753 (0.655, 0.837)	0.822 (0.751, 0.884)	0.846 (0.746, 0.919)	0.765 (0.698, 0.837)	0.758 (0.683, 0.818)
Partial AUC Ratio	Train	1.76	1.76	1.79	1.81	1.81	1.84
	Test	1.51	1.36	1.60	1.67	1.41	1.56

Mean AUCs (95% percentiles) and partial area AUC ratio (calculated at tolerance level of 0.2) are given.

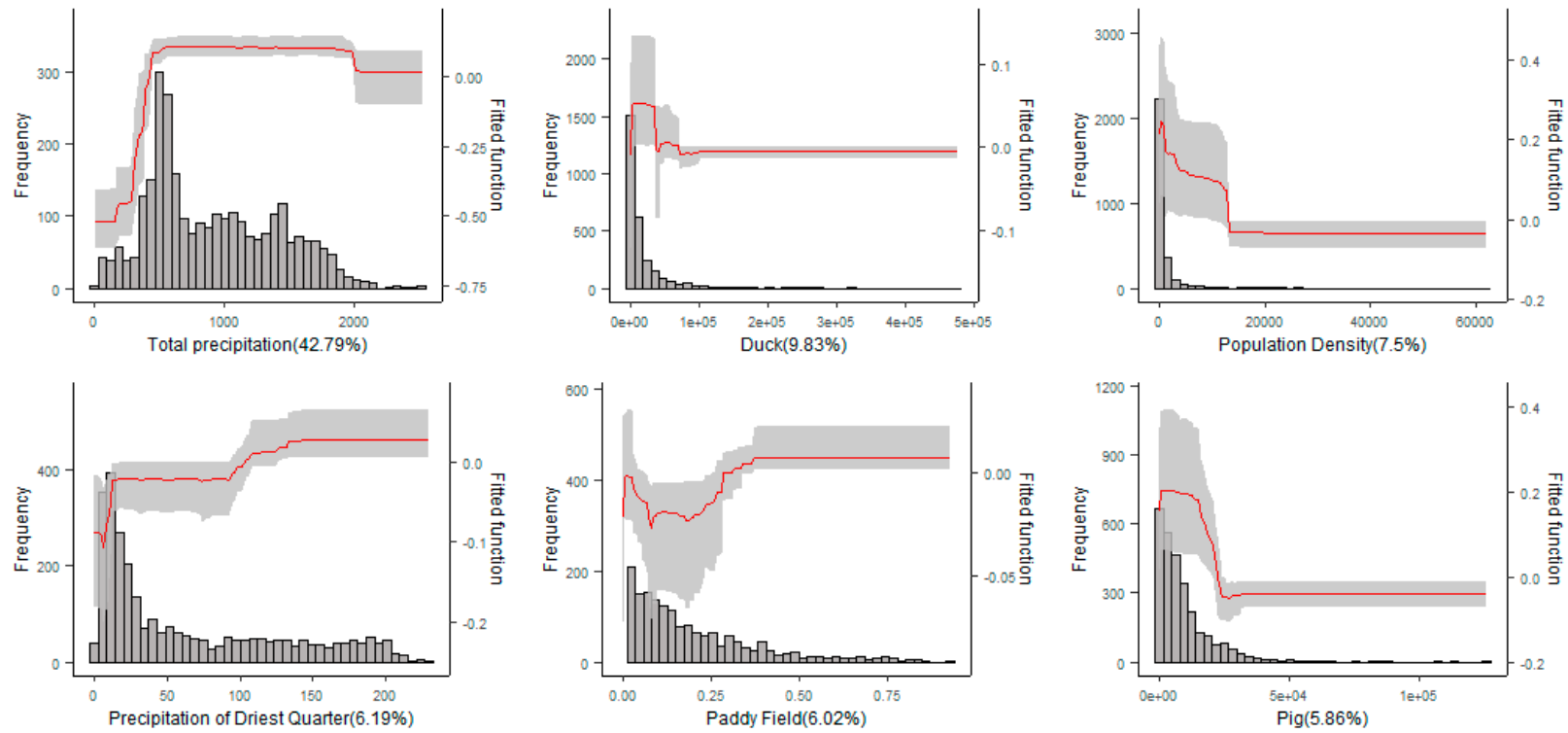
Supplementary Table S7. BRT-model-estimated mean (standard deviation) relative contributions of top factors (RC≥5%) to the spatial distribution of three most prevalent mosquito species in the *Aedes* and *Armigeres* genus.

Category	Variable	<i>Ae. albopictus</i>	<i>Ae. vexans</i>	<i>Ae. dorsalis</i>	<i>Ae. aegypti</i>	<i>Ar. subalbatus</i>
Ecoclimatic	Paddy Field					5.80 (1.12)
	Rainfed Cropland					5.15 (1.09)
	Forest		5.09 (1.13)			5.90 (0.96)
	River				5.51 (2.96)	
	Rural Residential Land				10.01 (4.08)	
Environmental	Other Construction Land		5.31 (1.18)	5.37 (1.34)		
	Annual Mean Temperature	40.58 (2.95)	7.84 (3.22)	14.08 (4.69)	18.55 (7.29)	41.88 (4.46)
	Isothermality		9.58 (1.39)		7.51 (3.47)	
	Temperature Seasonality	10.80 (1.86)	17.58 (3.68)	34.23 (4.54)	45.49 (7.20)	13.35 (3.32)
	Mean Temperature of Warmest Quarter		22.96 (5.18)			
Biological factors	Total precipitation	8.97 (1.56)		7.74 (2.06)		
	Precipitation of Driest Quarter	5.39 (1.27)	5.14 (1.14)			
	Population Density	7.31 (1.04)				
	Mammalian Richness	5.66 (0.96)				7.89 (1.47)
	Pig	5.82 (1.00)				
AUC	Sheep		6.26 (1.32)			
	Train	0.974 (0.959, 0.988)	0.945 (0.920, 0.967)	0.990 (0.982, 0.998)	0.997 (0.995, 0.999)	0.967 (0.954, 0.985)
	Test	0.870 (0.827, 0.902)	0.820 (0.758, 0.869)	0.932 (0.890, 0.962)	0.951 (0.838, 0.996)	0.839 (0.786, 0.885)
Partial AUC Ratio	Train	1.33	1.58	1.78	1.94	1.43
	Test	1.30	1.38	1.76	1.94	1.38

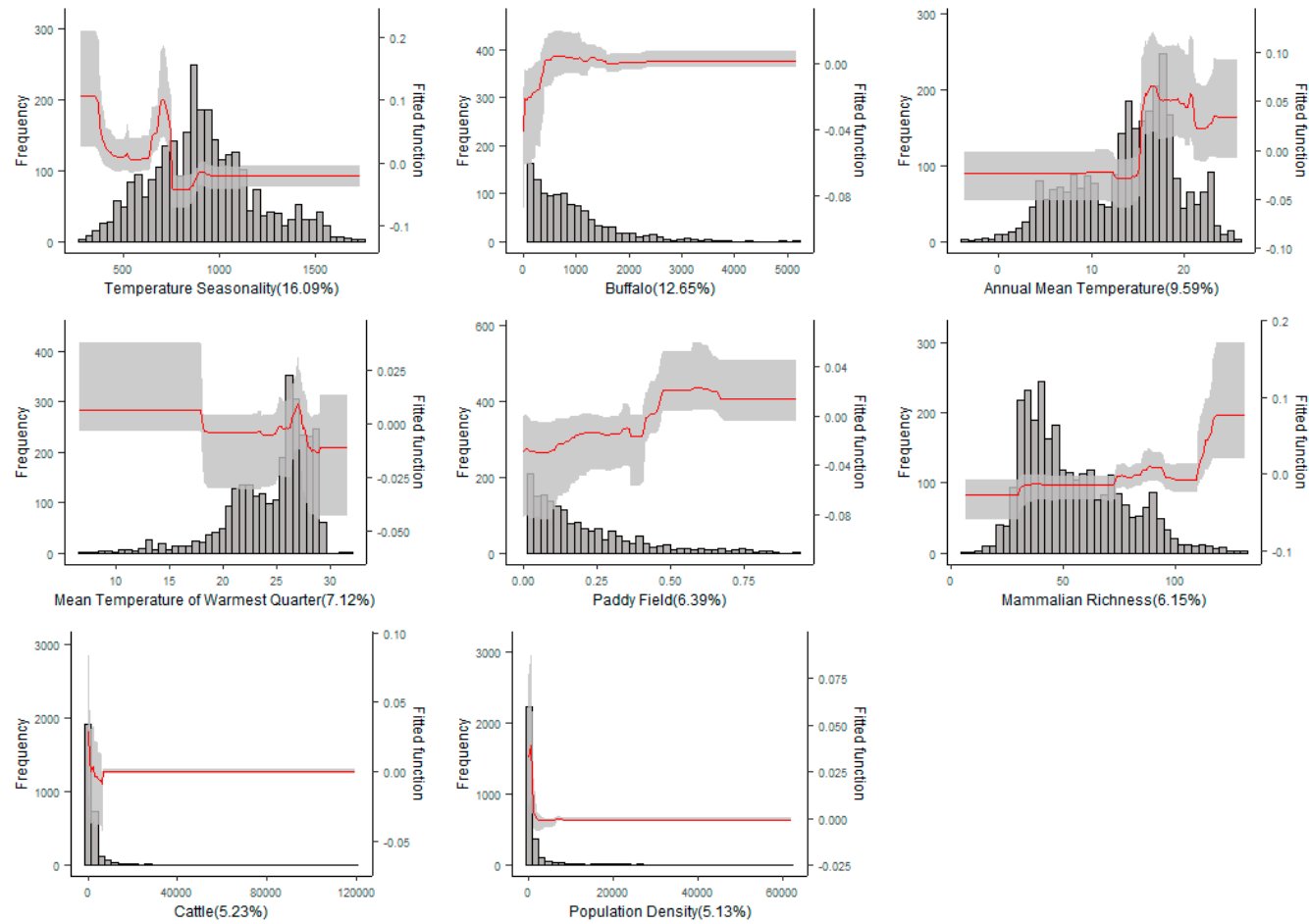
Mean AUCs (95% percentiles) and partial area AUC ratio (calculated at tolerance level of 0.2) are given.



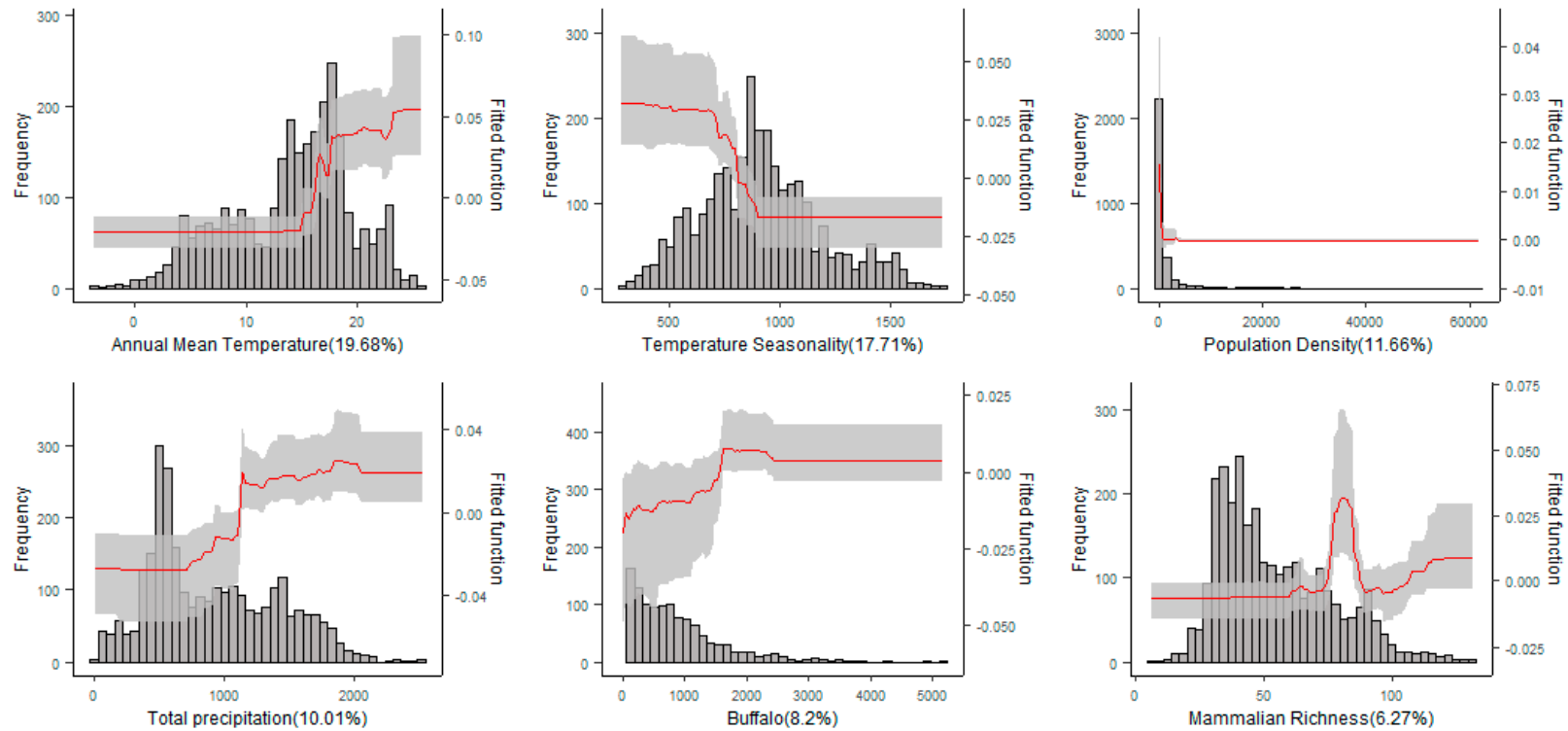
Supplementary Figure S12 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 5\%$) on the probability of occurrence of *Ar. subalbatus* based on the ensemble of BRT models.



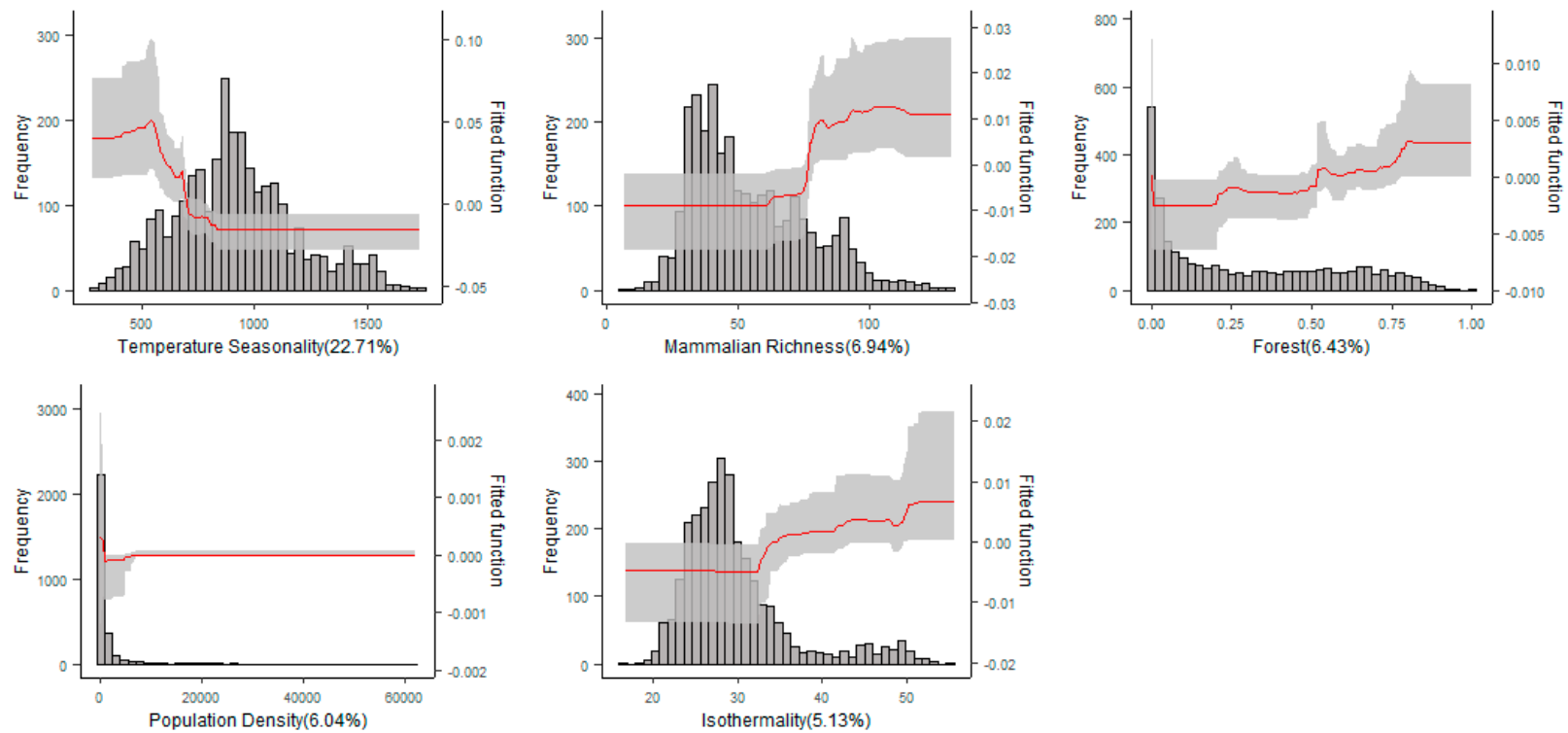
Supplementary Figure S13 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 6\%$) on the probability of occurrence of *An. sinensis* based on the ensemble of BRT models.



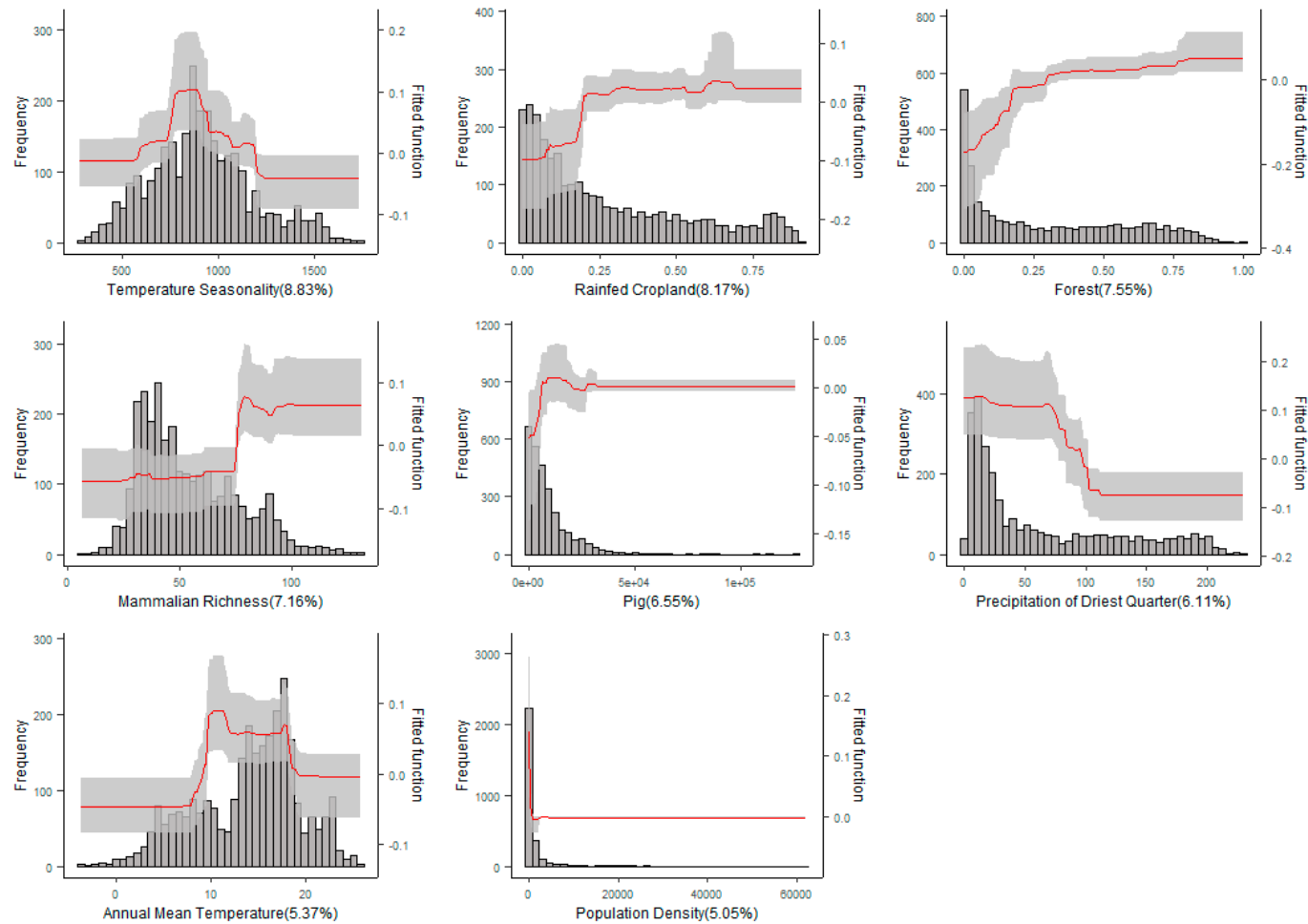
Supplementary Figure S14 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 7\%$) on the probability of occurrence of *An. anthropophagus* based on the ensemble of BRT models.



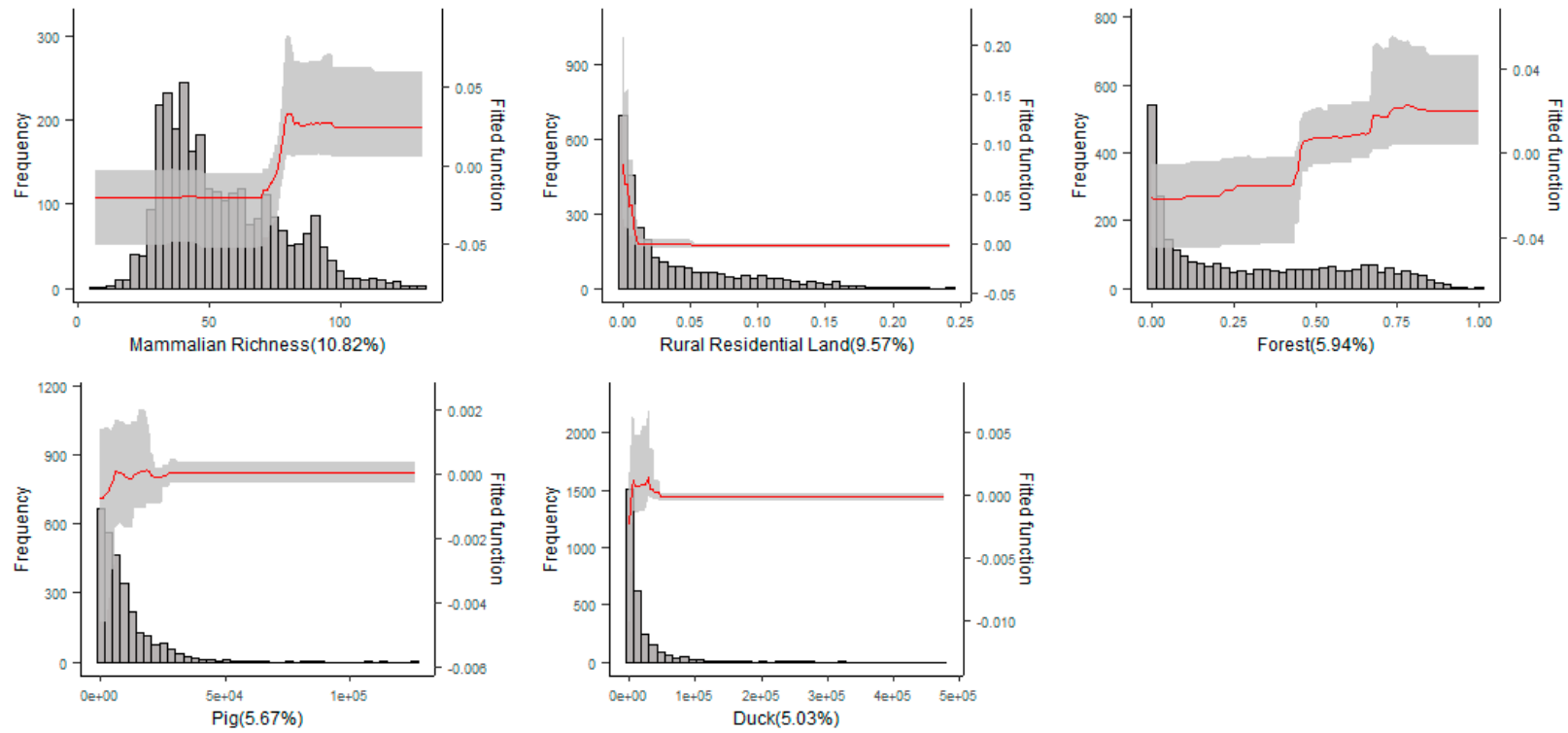
Supplementary Figure S15 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 8\%$) on the probability of occurrence of *An. minimus* based on the ensemble of BRT models.



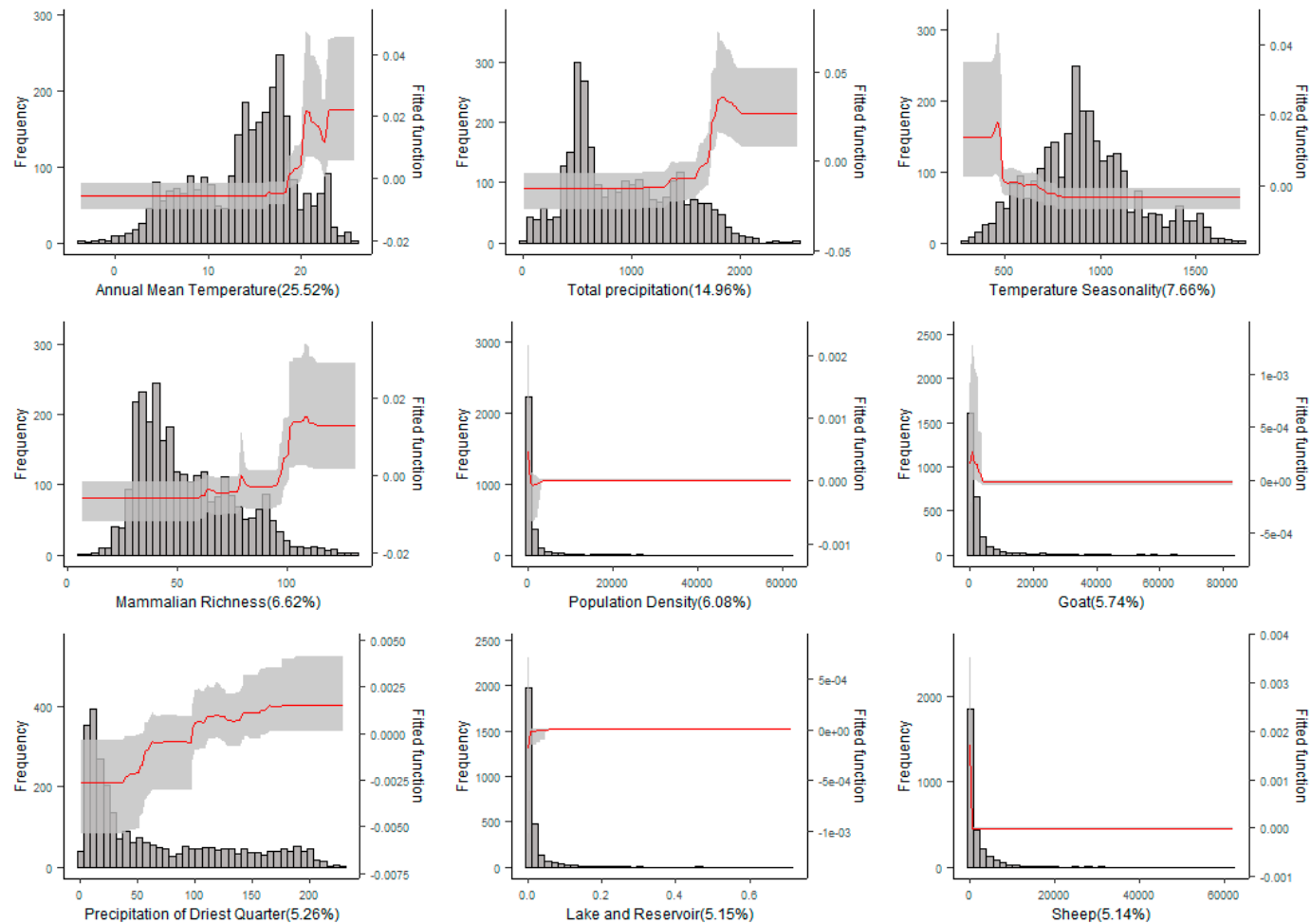
Supplementary Figure S16 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors (RC \geq 9%) on the probability of occurrence of *An. maculatus* based on the ensemble of BRT models.



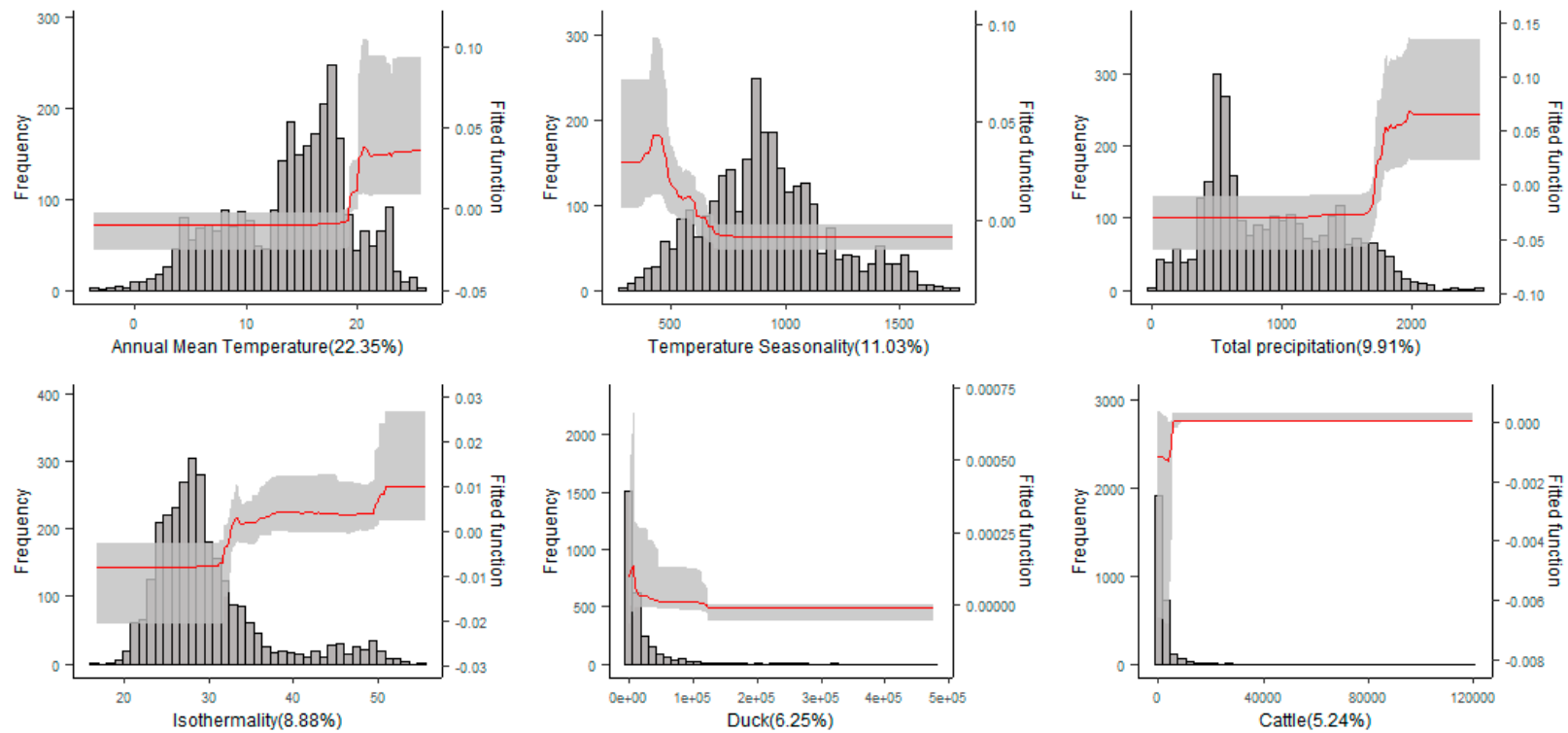
Supplementary Figure S17 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 10\%$) on the probability of occurrence of *An. pattoni* based on the ensemble of BRT models.



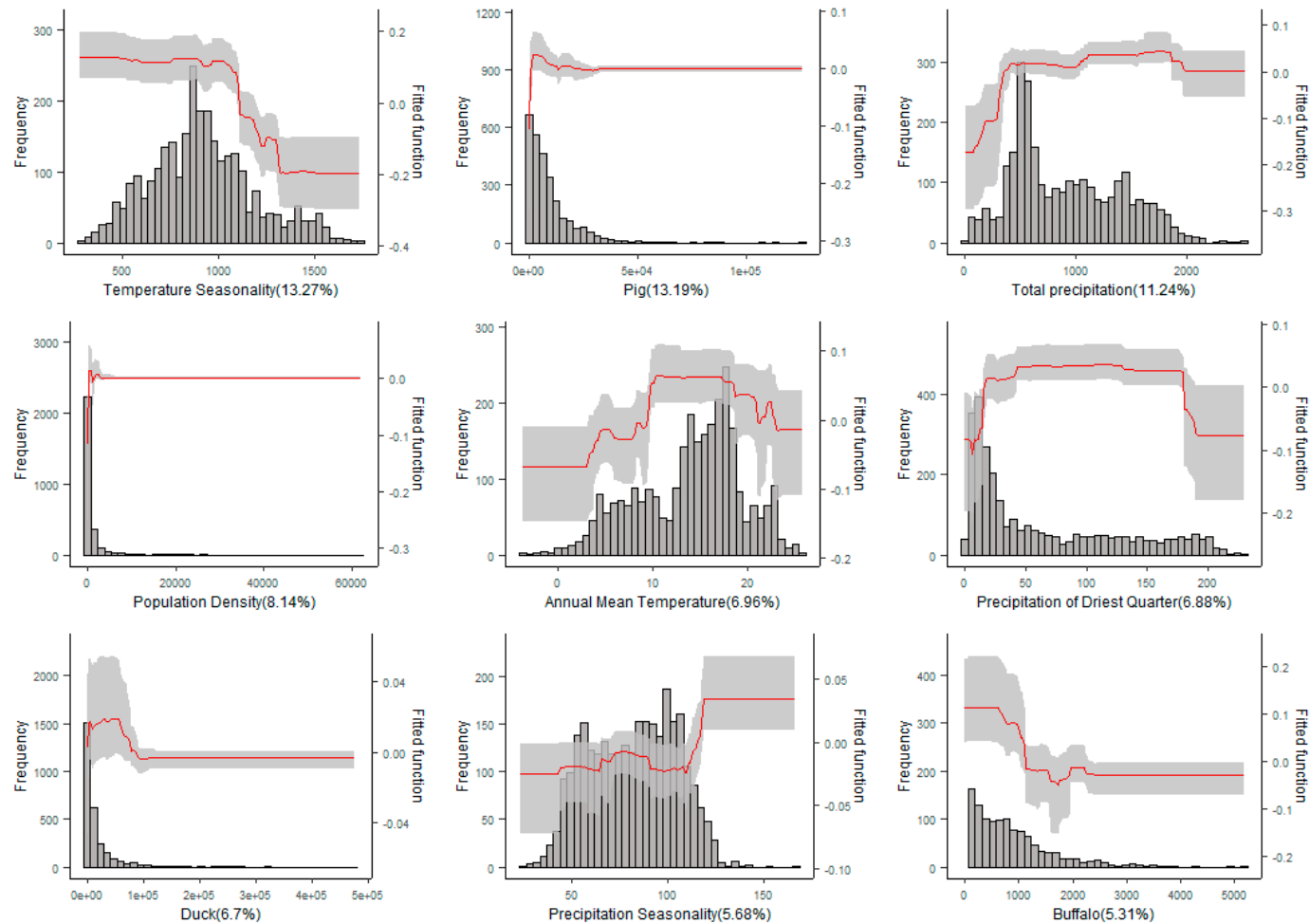
Supplementary Figure S18 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 11\%$) on the probability of occurrence of *An. lindesayi* based on the ensemble of BRT models.



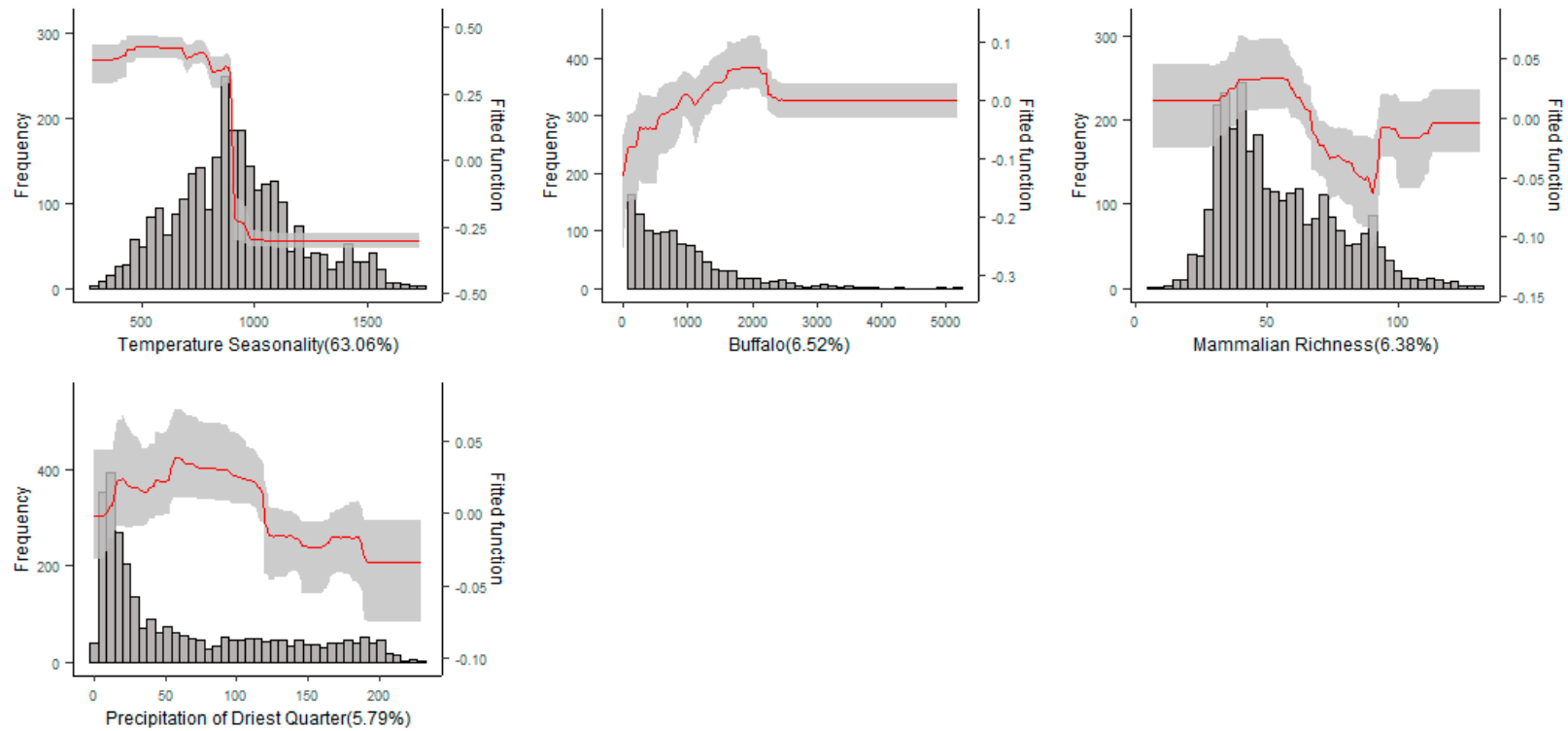
Supplementary Figure S19 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 12\%$) on the probability of occurrence of *An. jeyporiensis* based on the ensemble of BRT models.



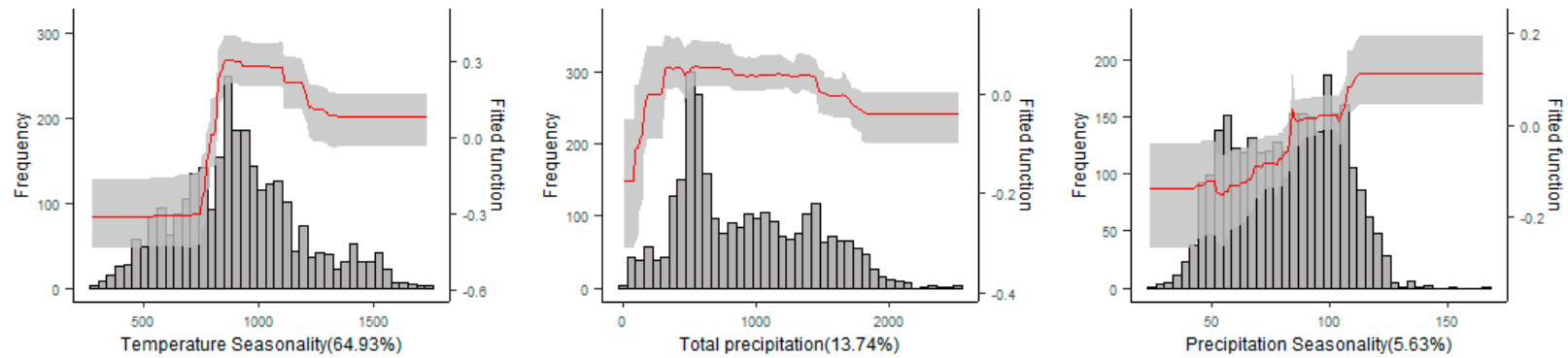
Supplementary Figure S20 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 13\%$) on the probability of occurrence of *An. tessellatus* based on the ensemble of BRT models.



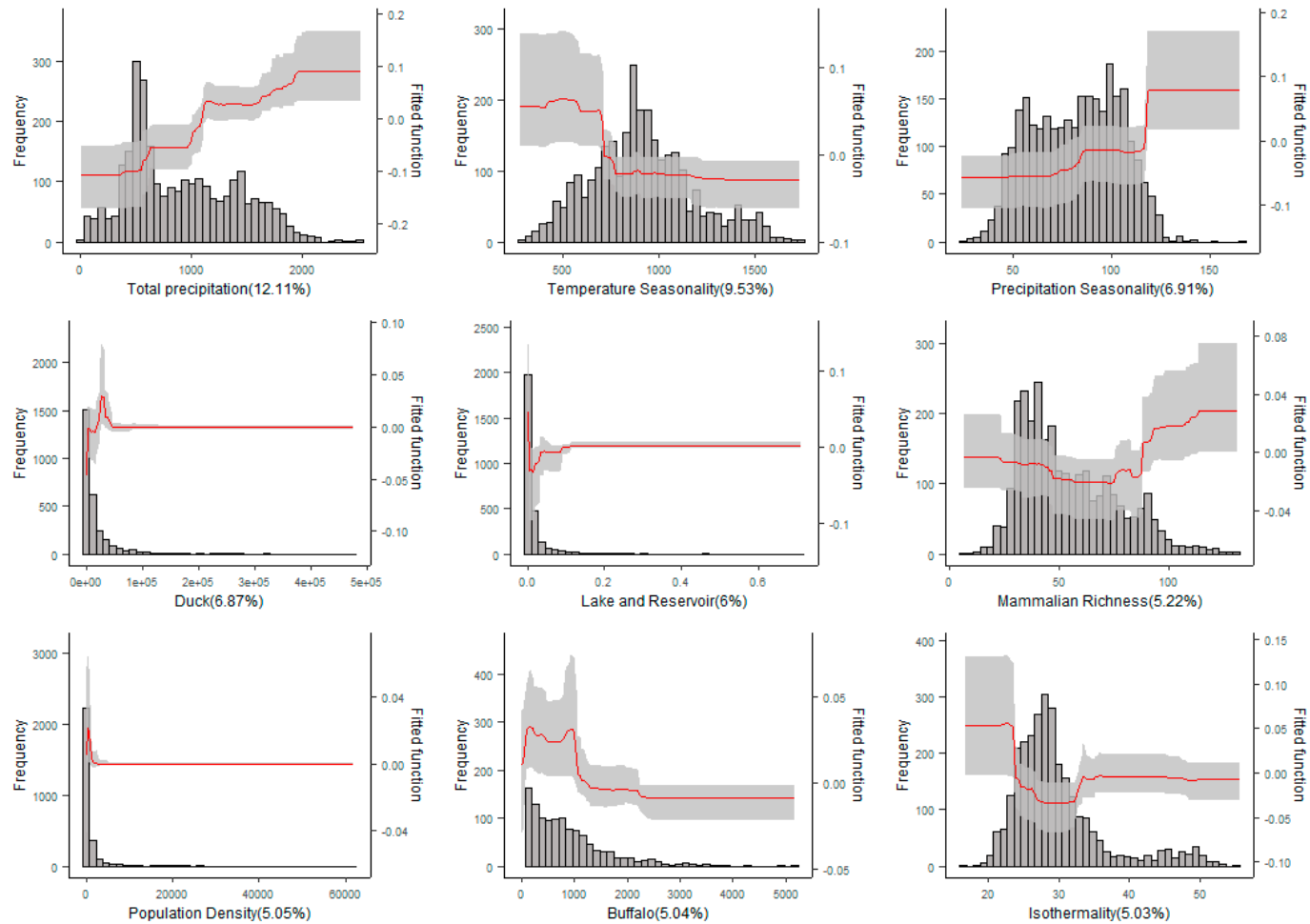
Supplementary Figure S21 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 14\%$) on the probability of occurrence of *Cx. tritaeniorhynchus* based on the ensemble of BRT models.



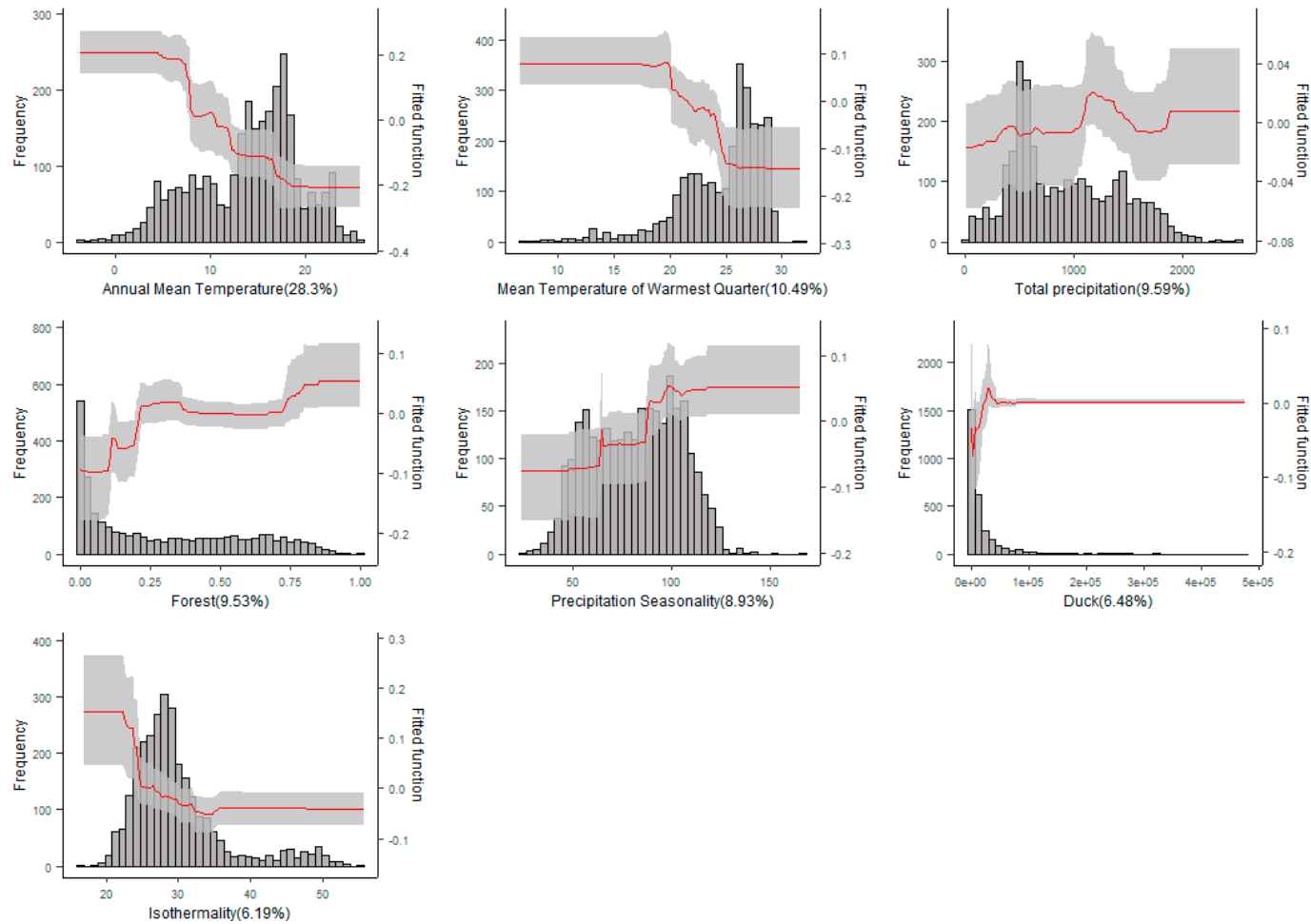
Supplementary Figure S22 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 15\%$) on the probability of occurrence of *Cx. pipiens quinquefasciatus* based on the ensemble of BRT models.



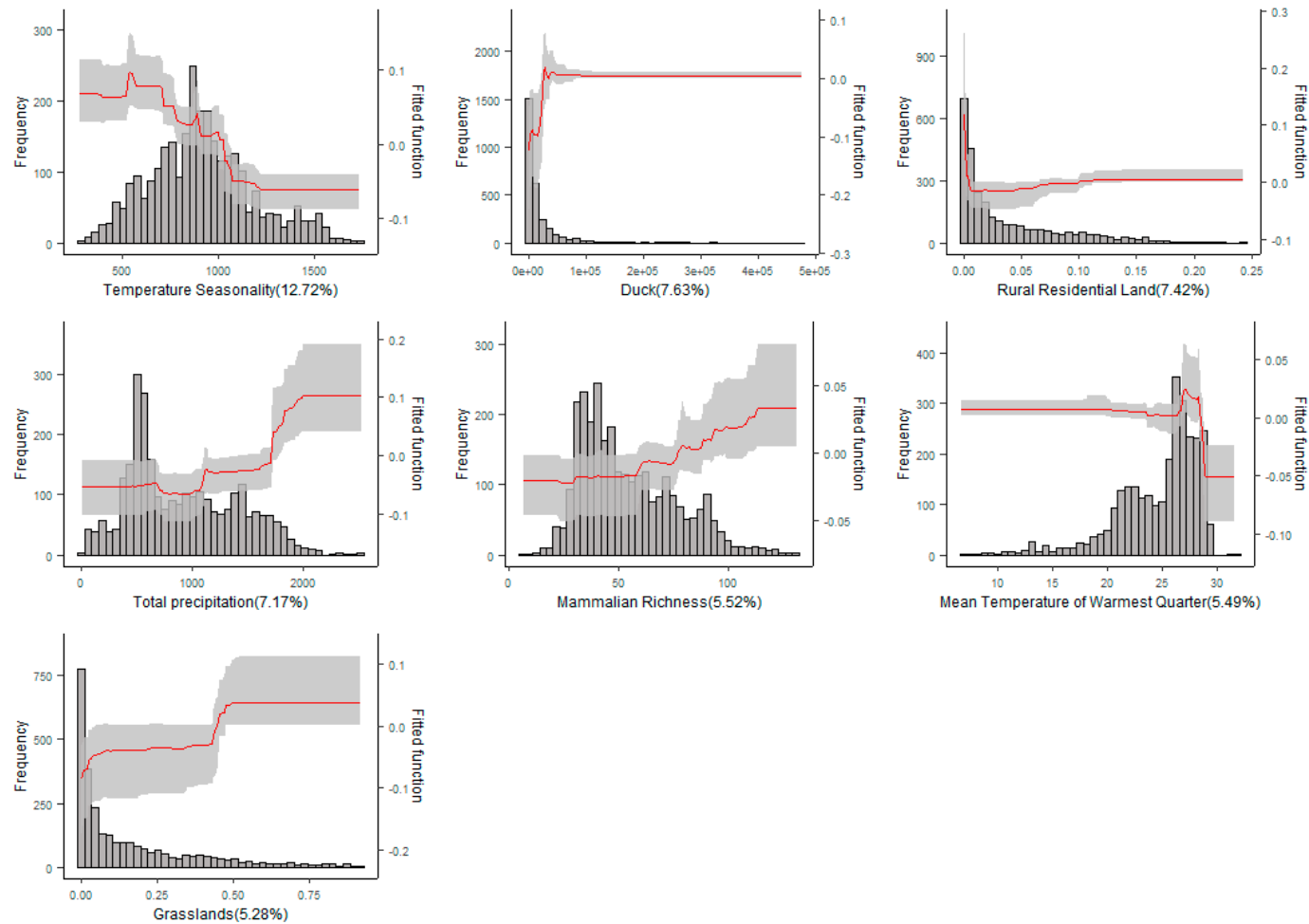
Supplementary Figure S23 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 16\%$) on the probability of occurrence of *Cx. pipiens pallens* based on the ensemble of BRT models.



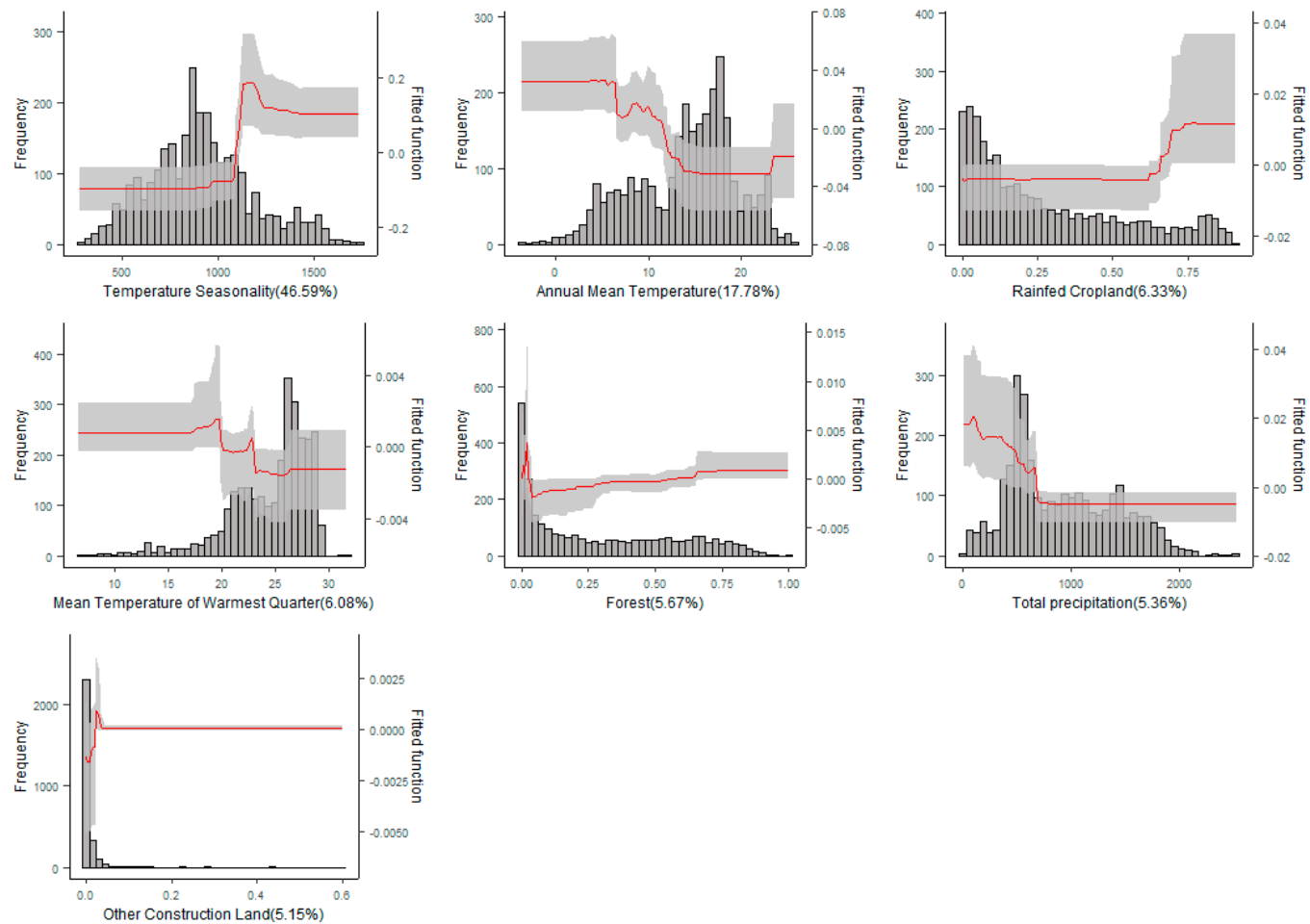
Supplementary Figure S24 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 17\%$) on the probability of occurrence of *Cx. bitaeniorhynchus* based on the ensemble of BRT models.



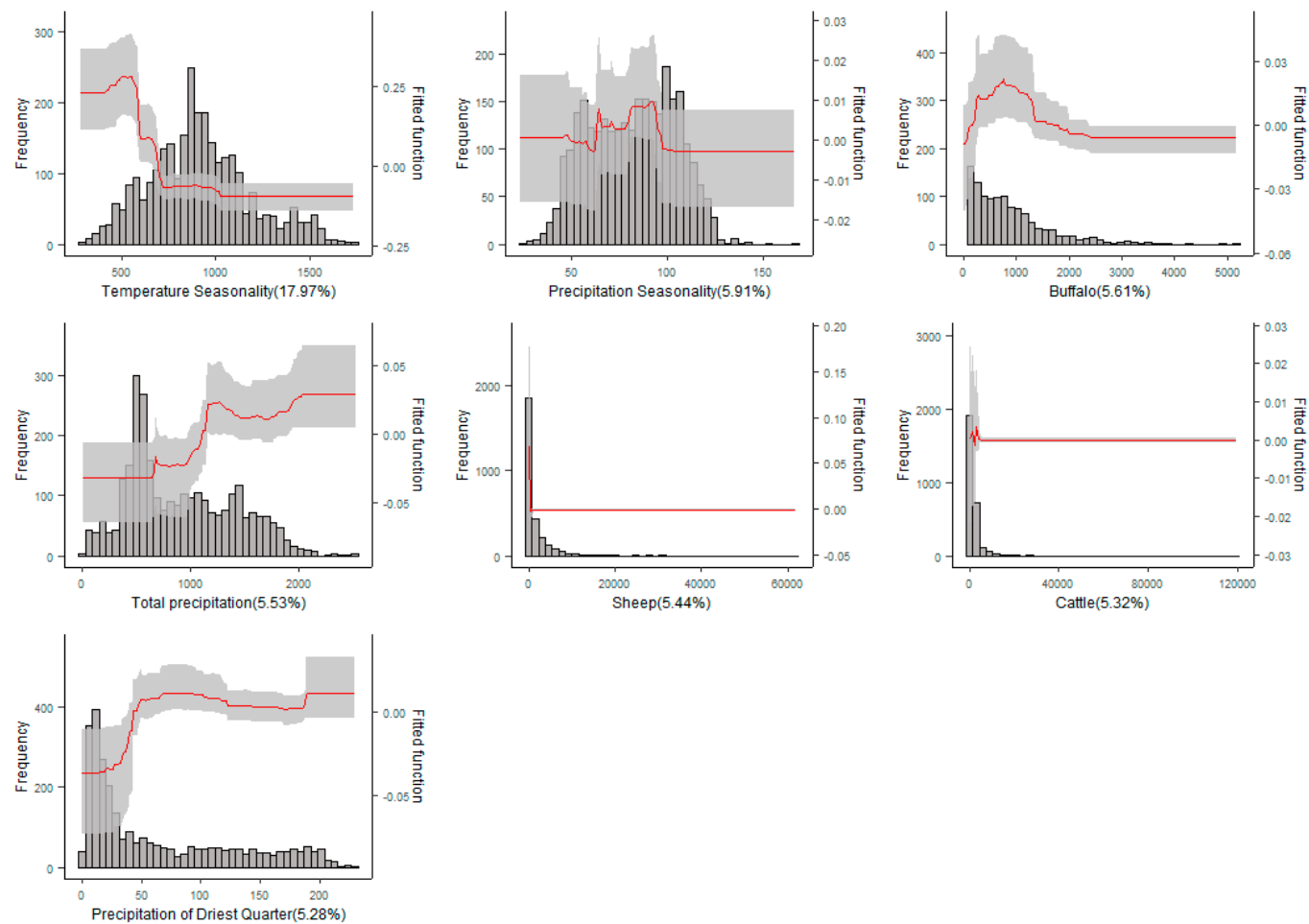
Supplementary Figure S25 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 18\%$) on the probability of occurrence of *Cx. vagans* based on the ensemble of BRT models.



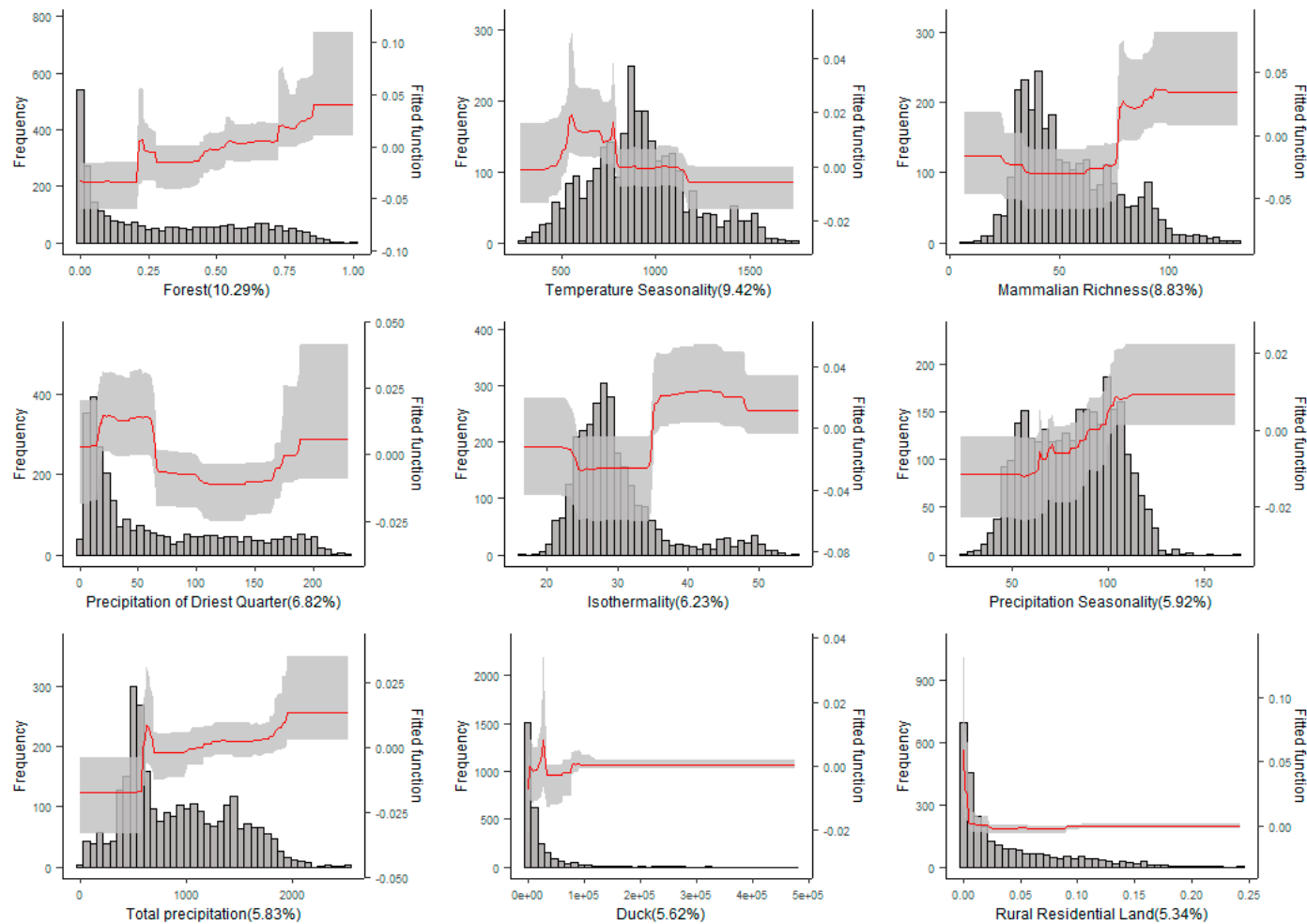
Supplementary Figure S26 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 19\%$) on the probability of occurrence of *Cx. halifaxia* based on the ensemble of BRT models.



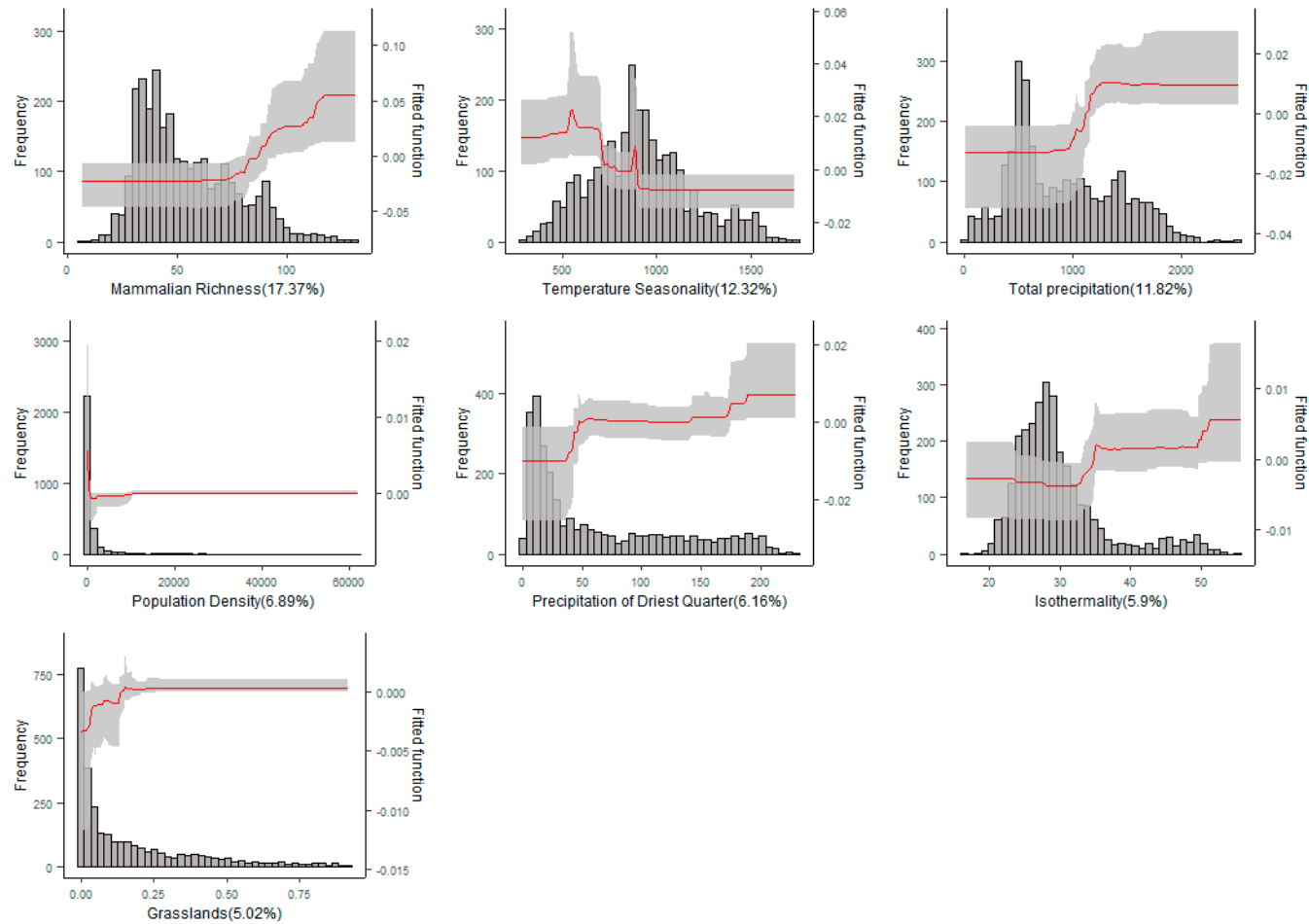
Supplementary Figure S27 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 20\%$) on the probability of occurrence of *Cx. modestus* based on the ensemble of BRT models.



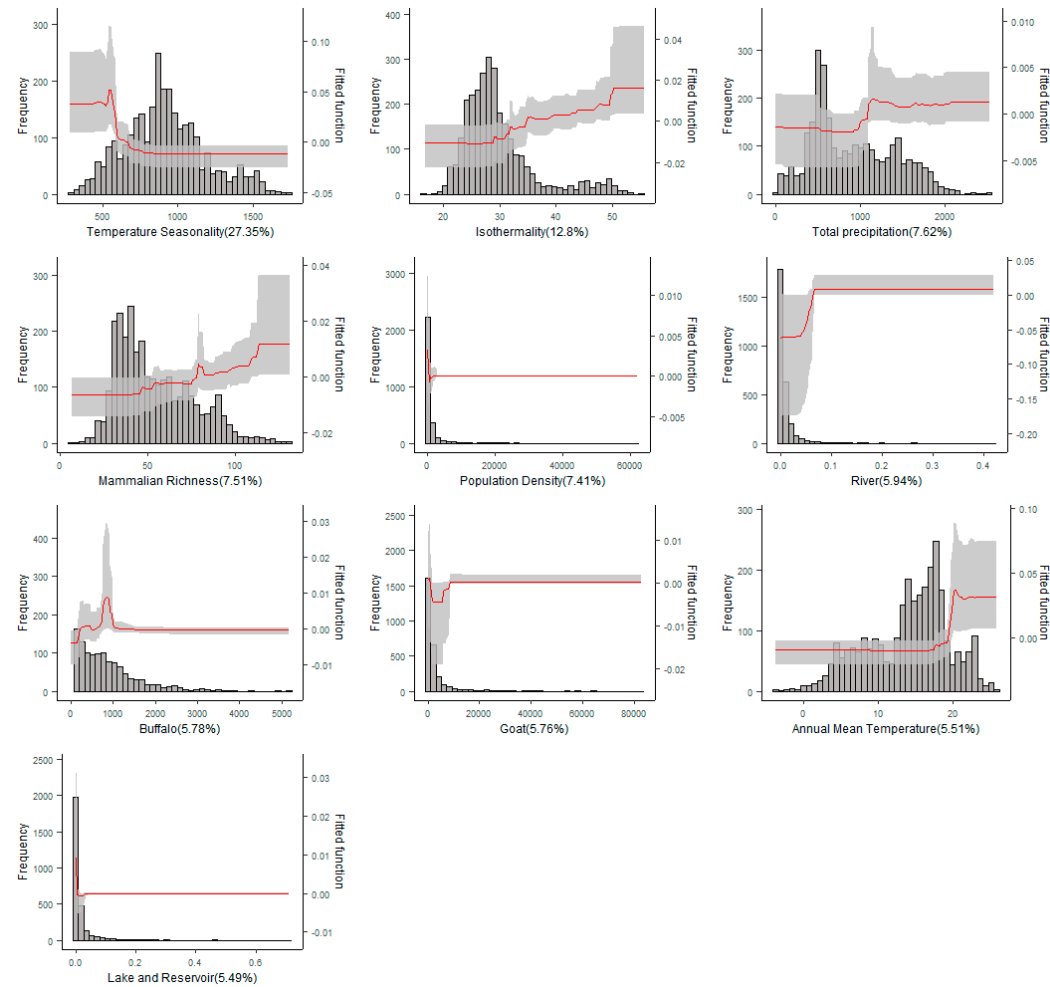
Supplementary Figure S28 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 21\%$) on the probability of occurrence of *Cx. fuscatus* based on the ensemble of BRT models.



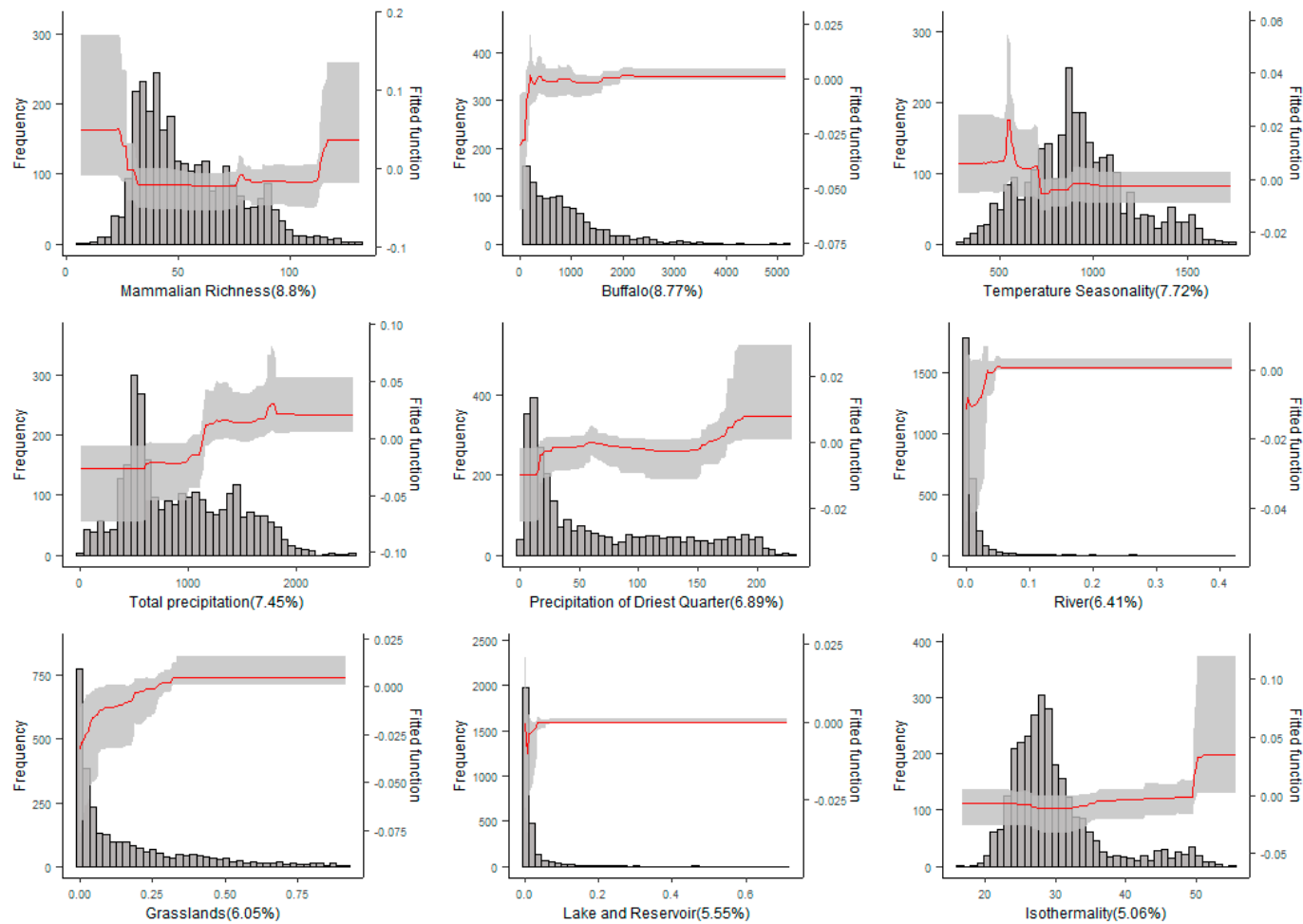
Supplementary Figure S29 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 22\%$) on the probability of occurrence of *Cx. mimeticus* based on the ensemble of BRT models.



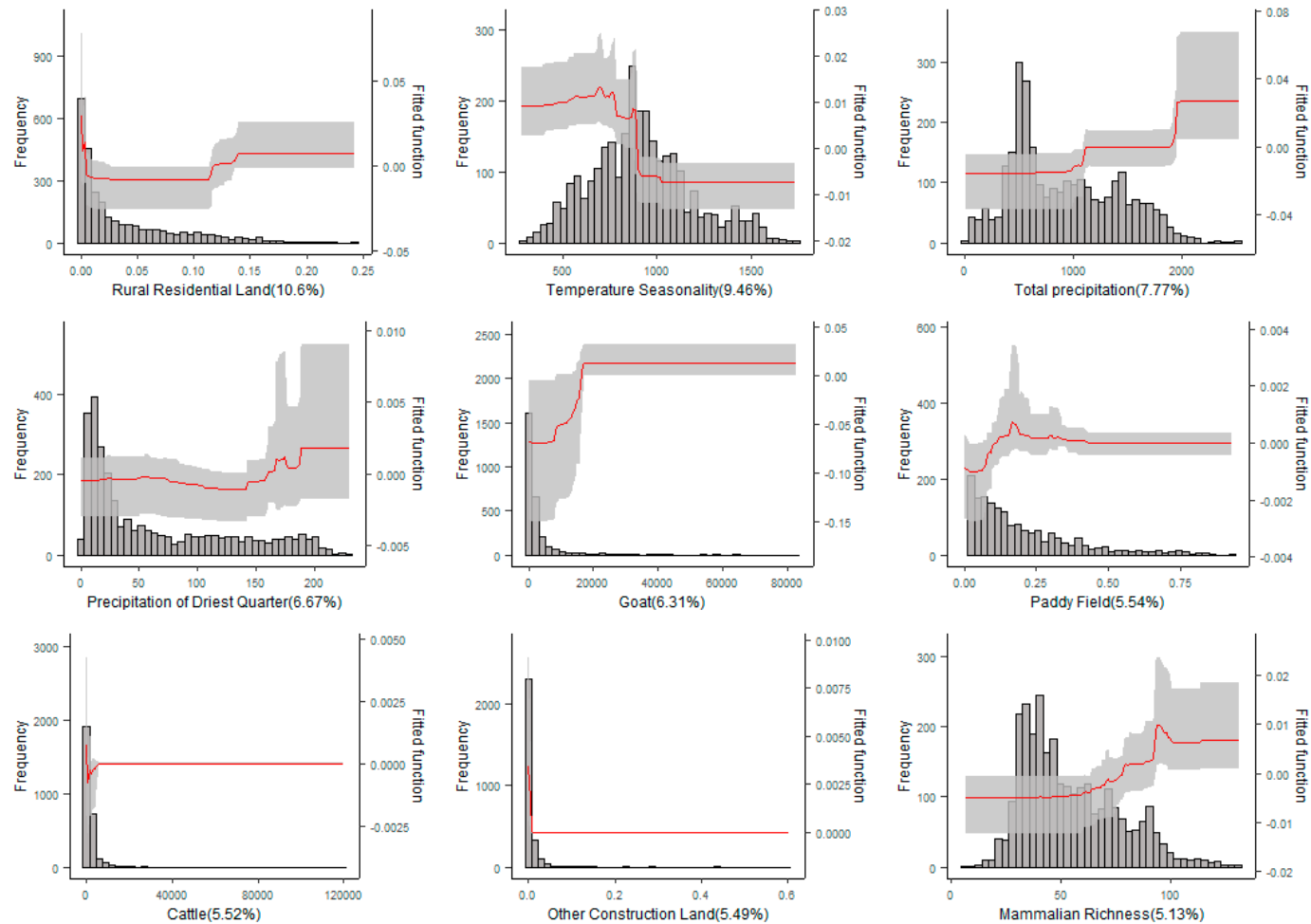
Supplementary Figure S30 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 23\%$) on the probability of occurrence of *Cx. pseudovishnui* based on the ensemble of BRT models.



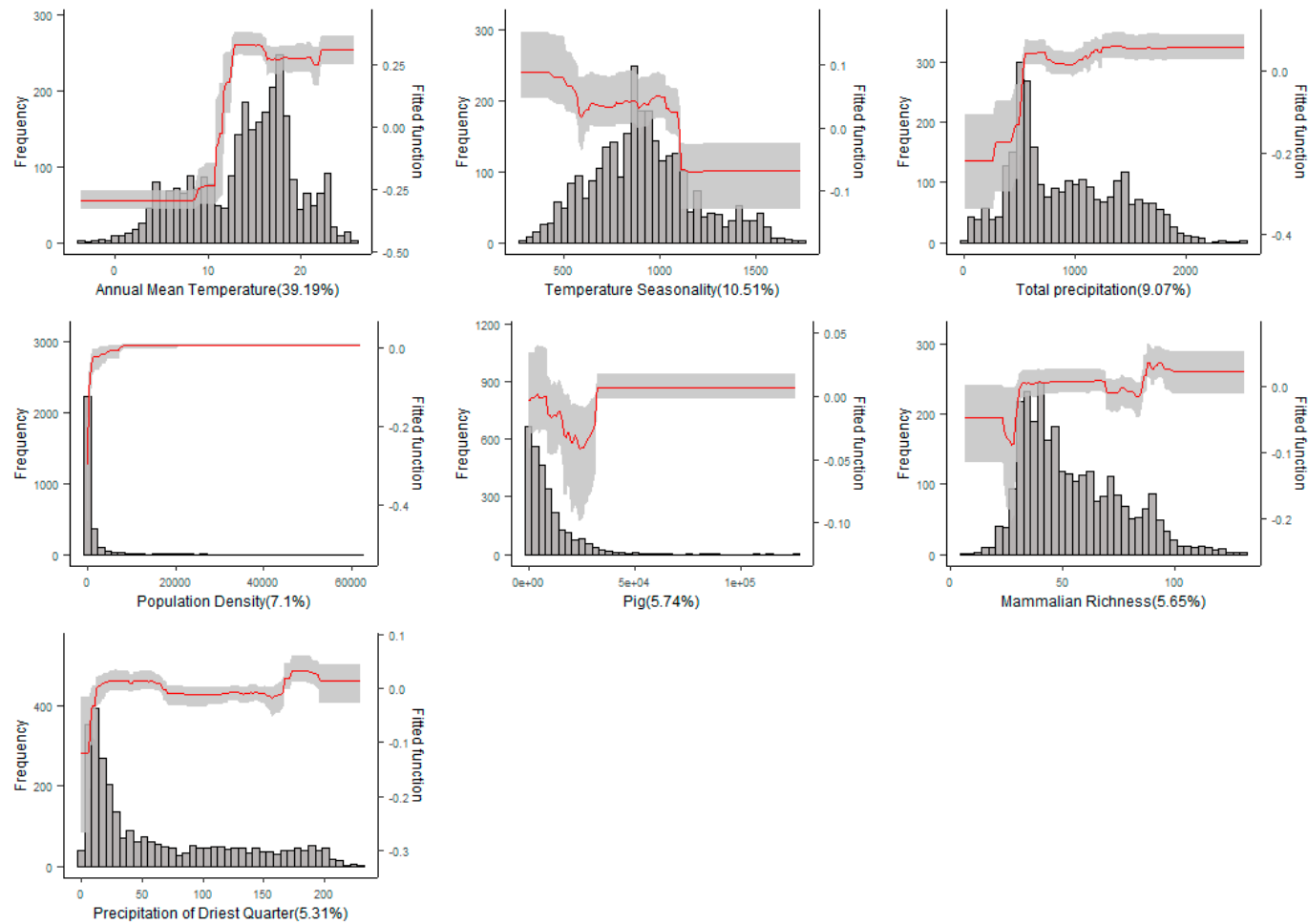
Supplementary Figure S31 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 24\%$) on the probability of occurrence of *Cx. fuscocephala* based on the ensemble of BRT models.



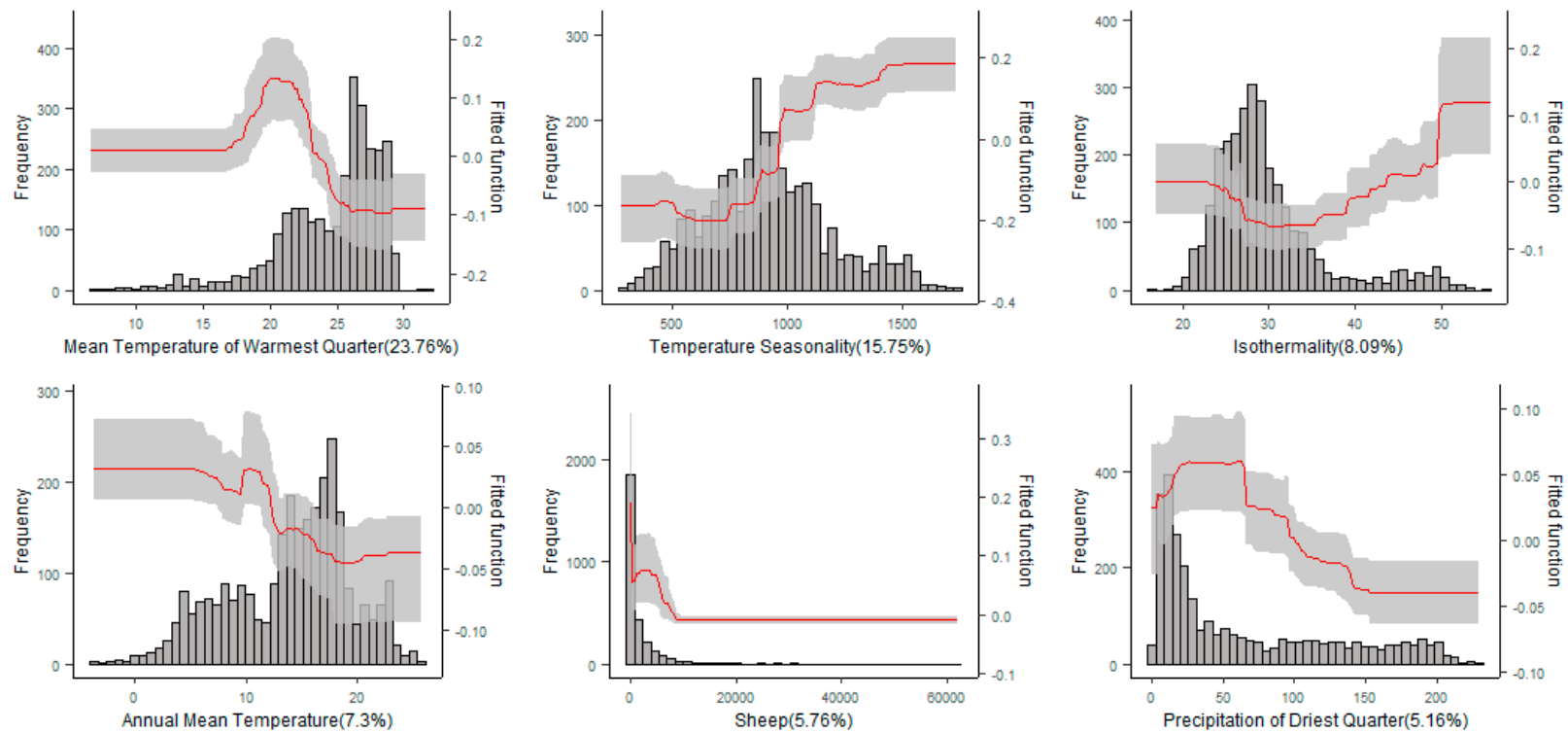
Supplementary Figure S32 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 25\%$) on the probability of occurrence of *Cx. whitmorei* based on the ensemble of BRT models.



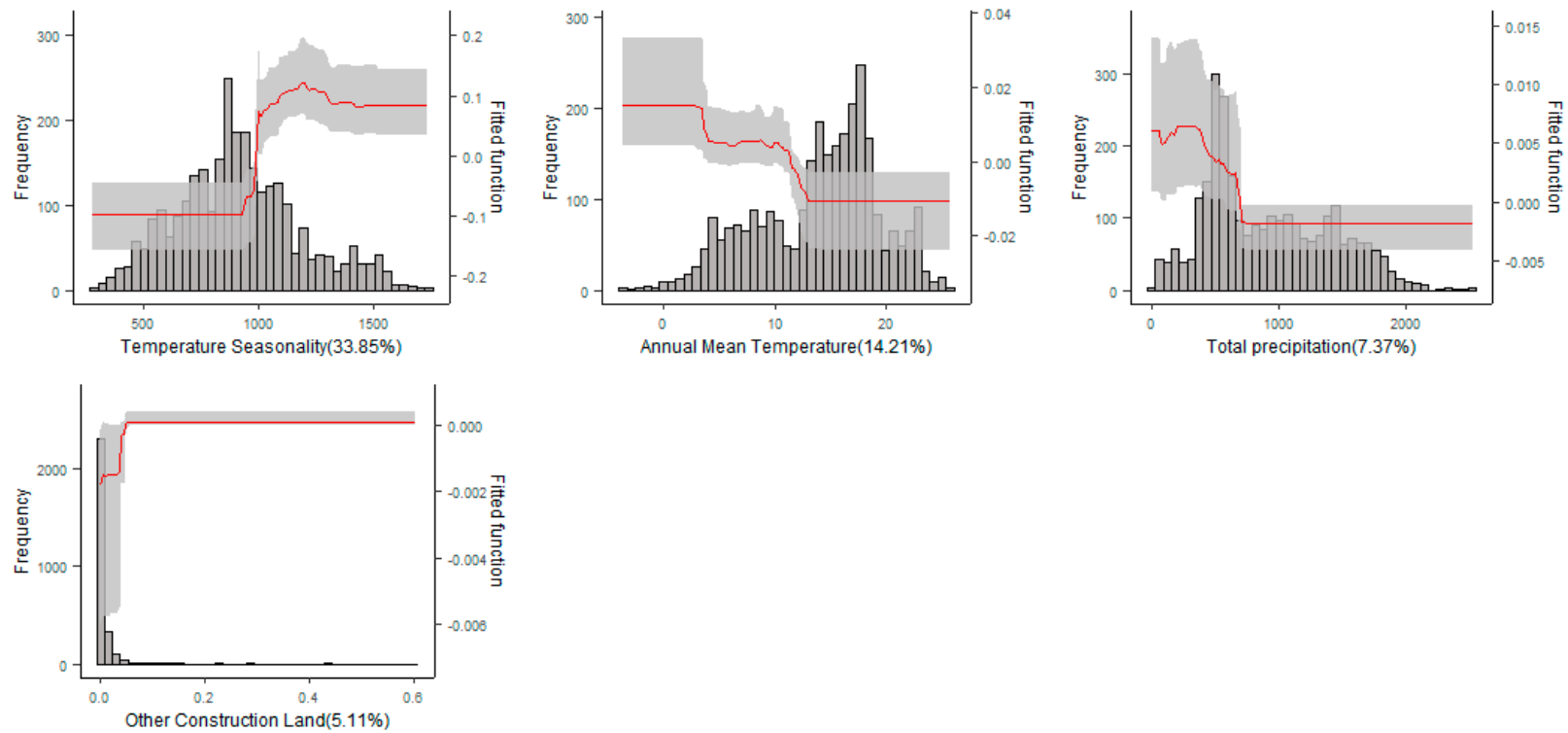
Supplementary Figure S33 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 26\%$) on the probability of occurrence of *Cx. mimulus* based on the ensemble of BRT models.



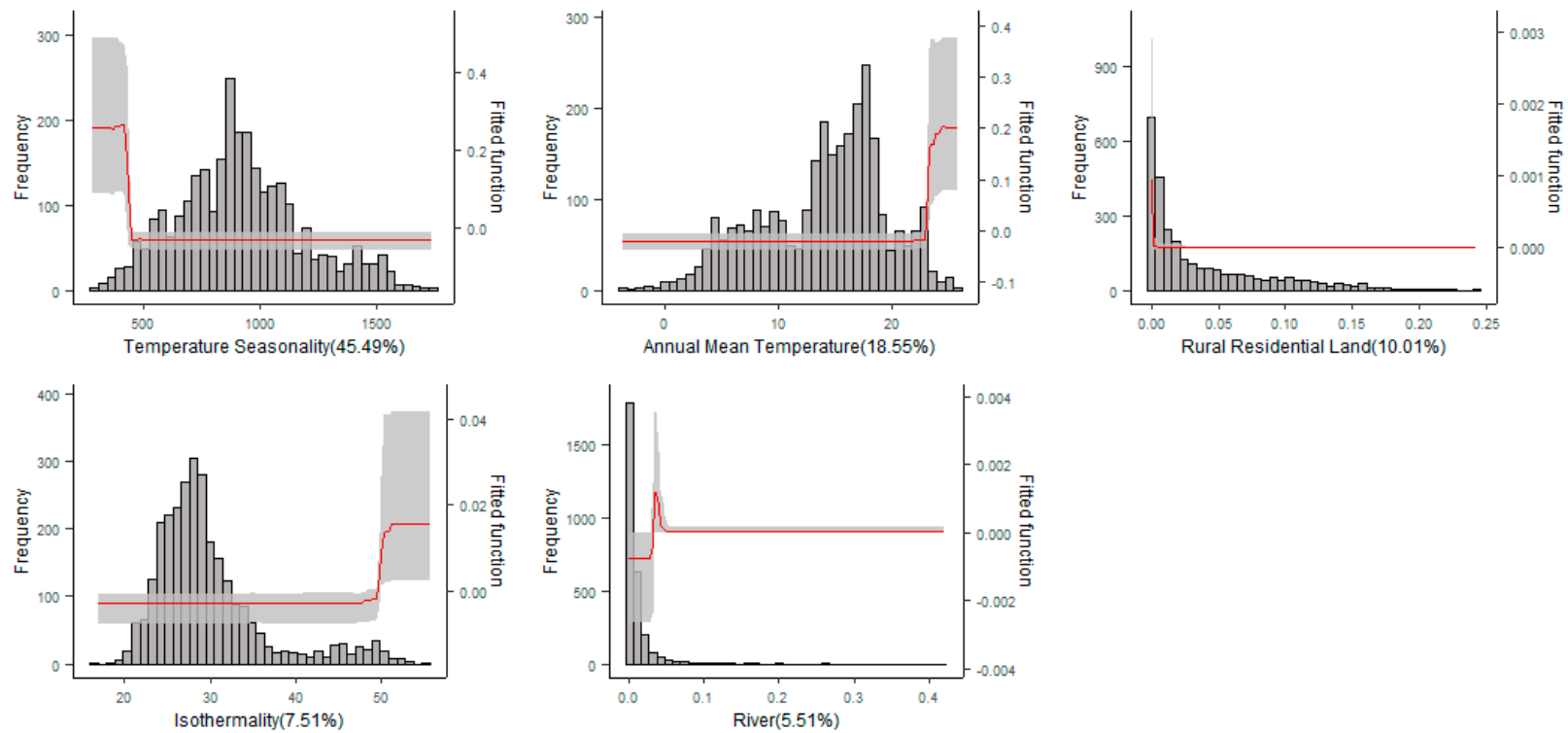
Supplementary Figure S34 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 27\%$) on the probability of occurrence of *Ae. albopictus* based on the ensemble of BRT models.



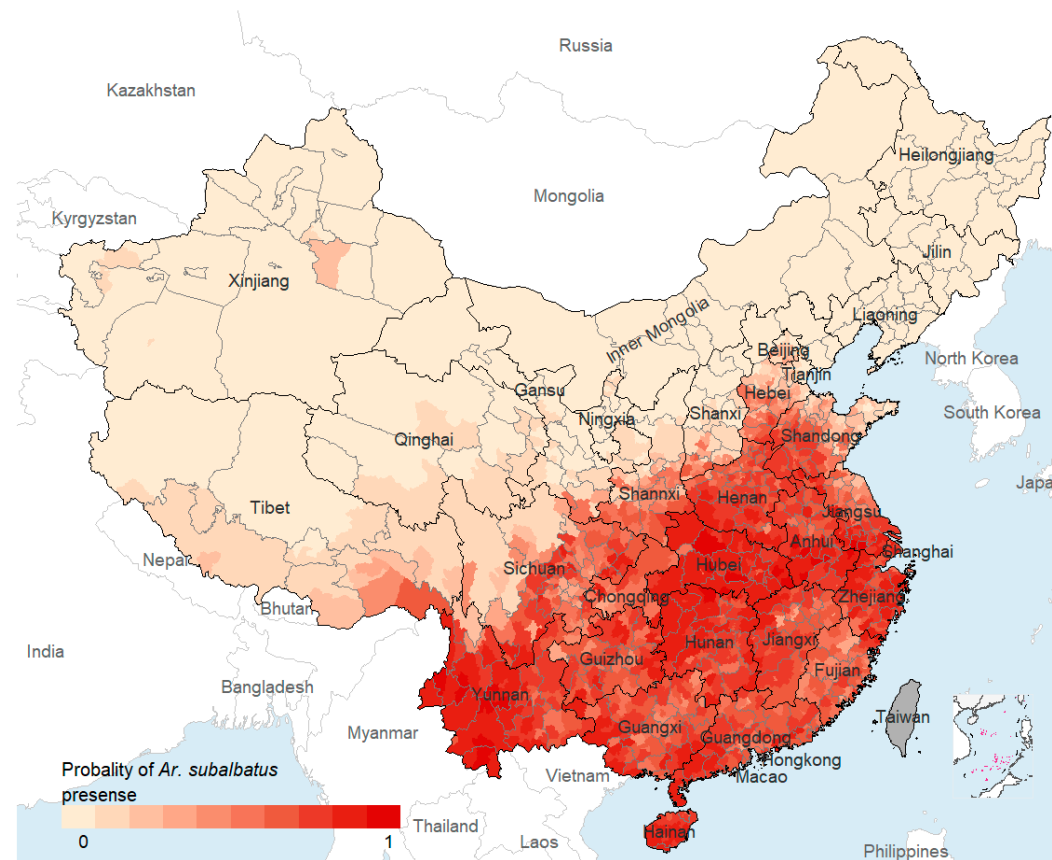
Supplementary Figure S35 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 28\%$) on the probability of occurrence of *Ae. vexans* based on the ensemble of BRT models.



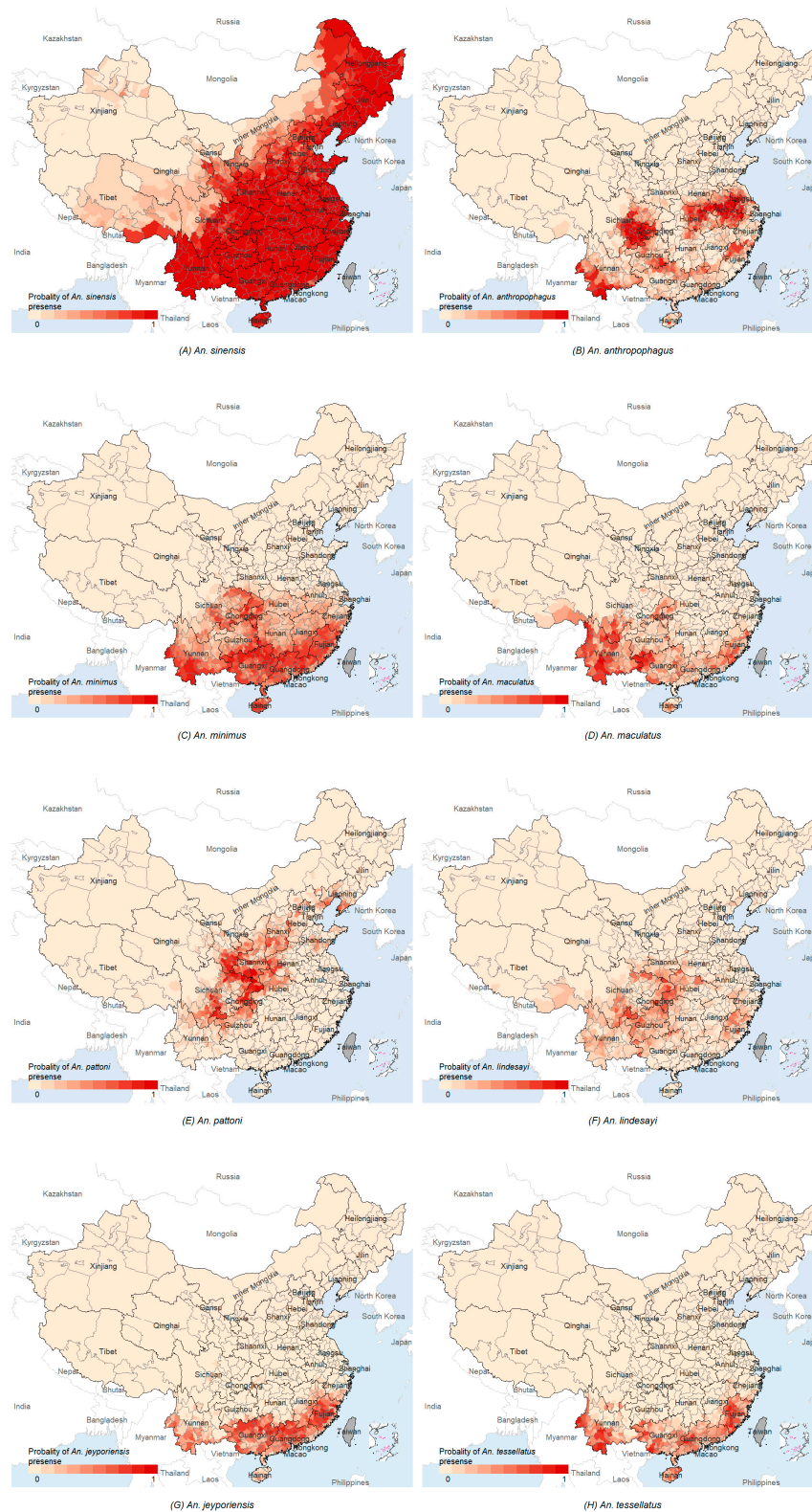
Supplementary Figure S36 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 29\%$) on the probability of occurrence of *Ae. dorsalis* based on the ensemble of BRT models.



Supplementary Figure S37 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 30\%$) on the probability of occurrence of *Ae. aegypti* based on the ensemble of BRT models.

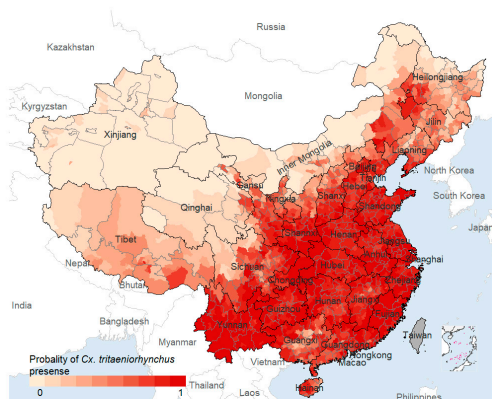


Supplementary Figure S38 The predicted county-level distributions of the one most prevalent mosquito species in the *Ar. subalbatus*, averaged over the ensemble of BRT models. Source data are provided as a Source Data file.

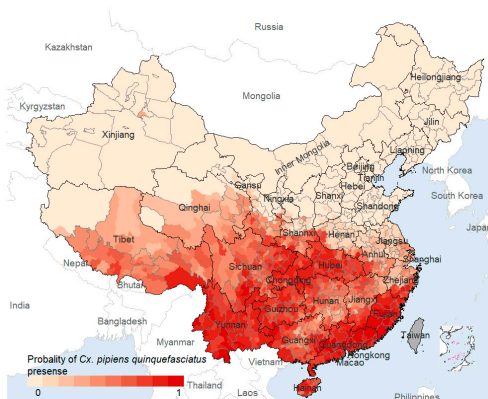


Supplementary Figure S39 The predicted county-level distributions of the eight most prevalent mosquito species in the *Anopheles* genus, averaged over the ensemble of BRT models (A) *An. sinensis*, (B) *An. anthropophagus*, (C) *An. minimus*, (D) *An. maculatus*, (E) *An. pattoni*, (F) *An. lindesayi*, (G) *An. jeyporiensis* and (H) *An. tessellatus*. Source data are provided as a Source Data

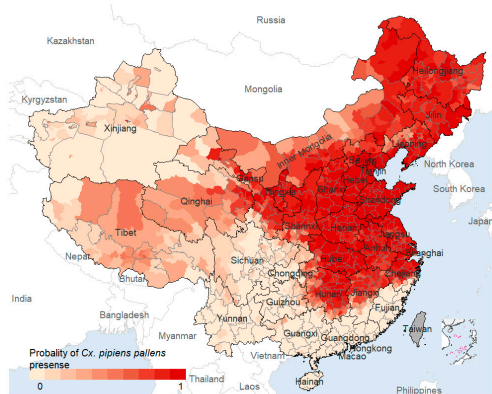
file.



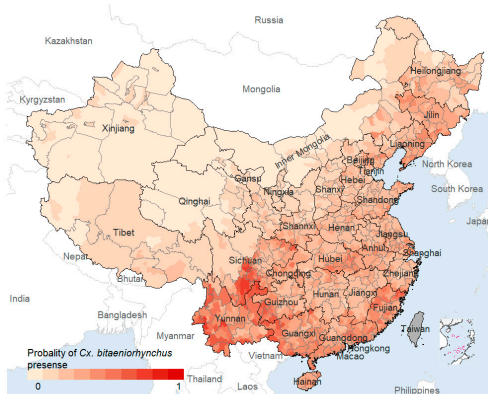
(A) *Cx. tritaeniorhynchus*



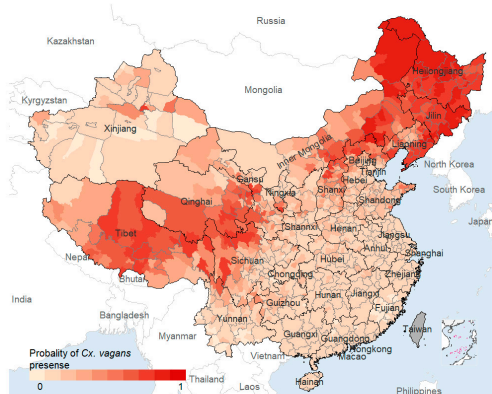
(B) *Cx. pipiens quinquefasciatus*



(C) *Cx. pipiens pallens*



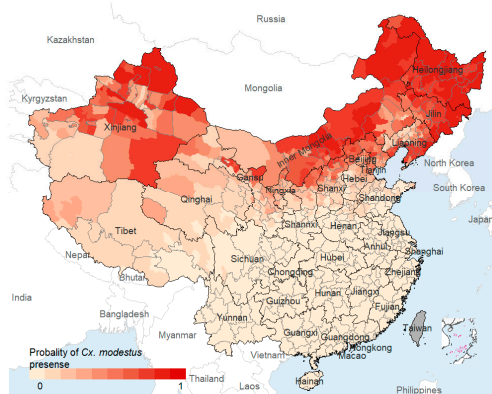
(D) *Cx. bitaeniorhynchus*



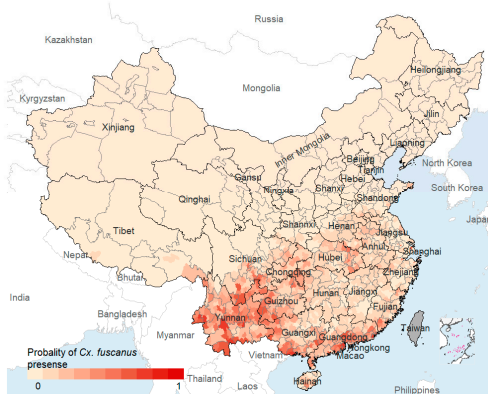
(E) *Cx. vagans*



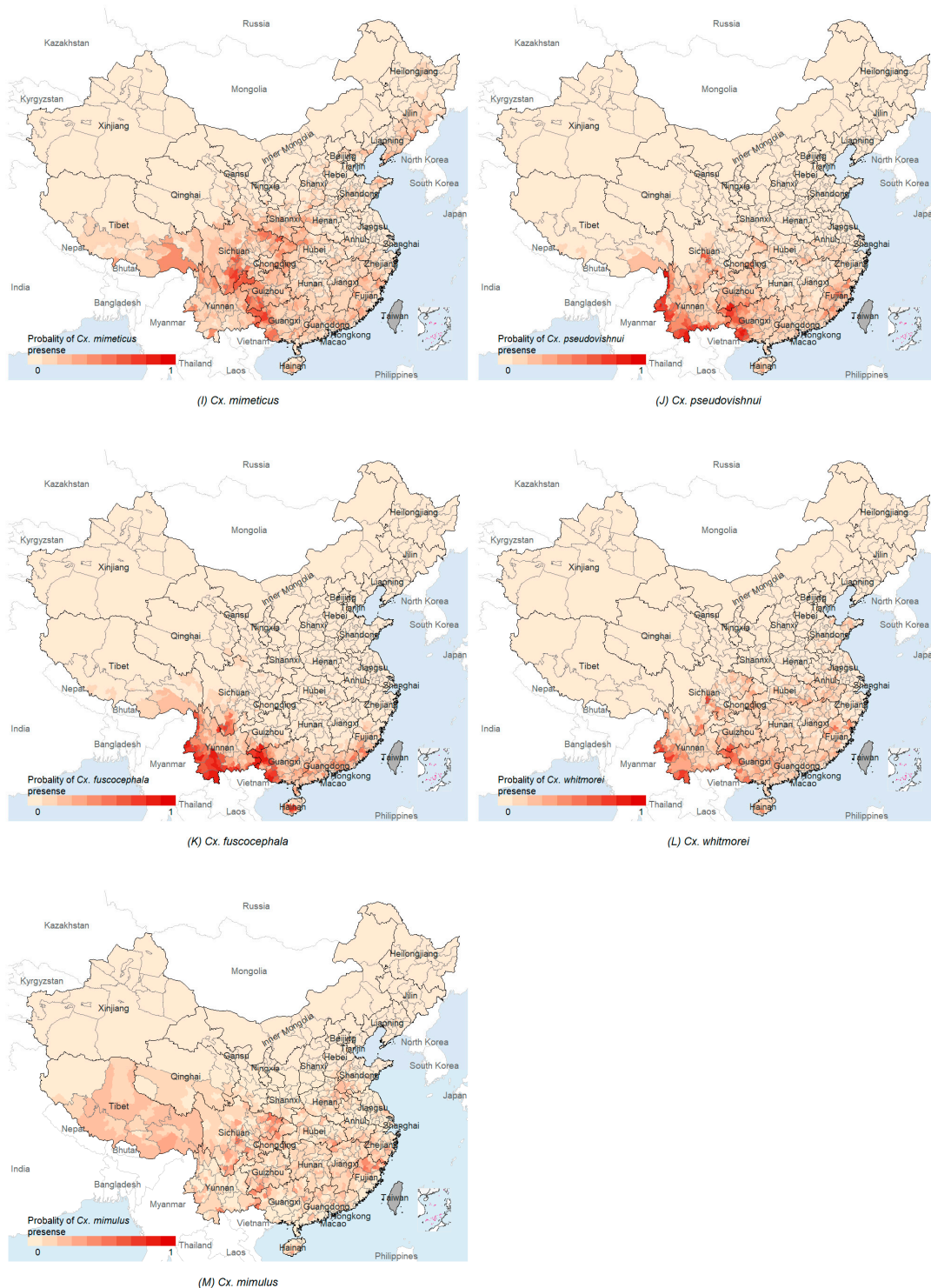
(F) *Cx. halifaxia*



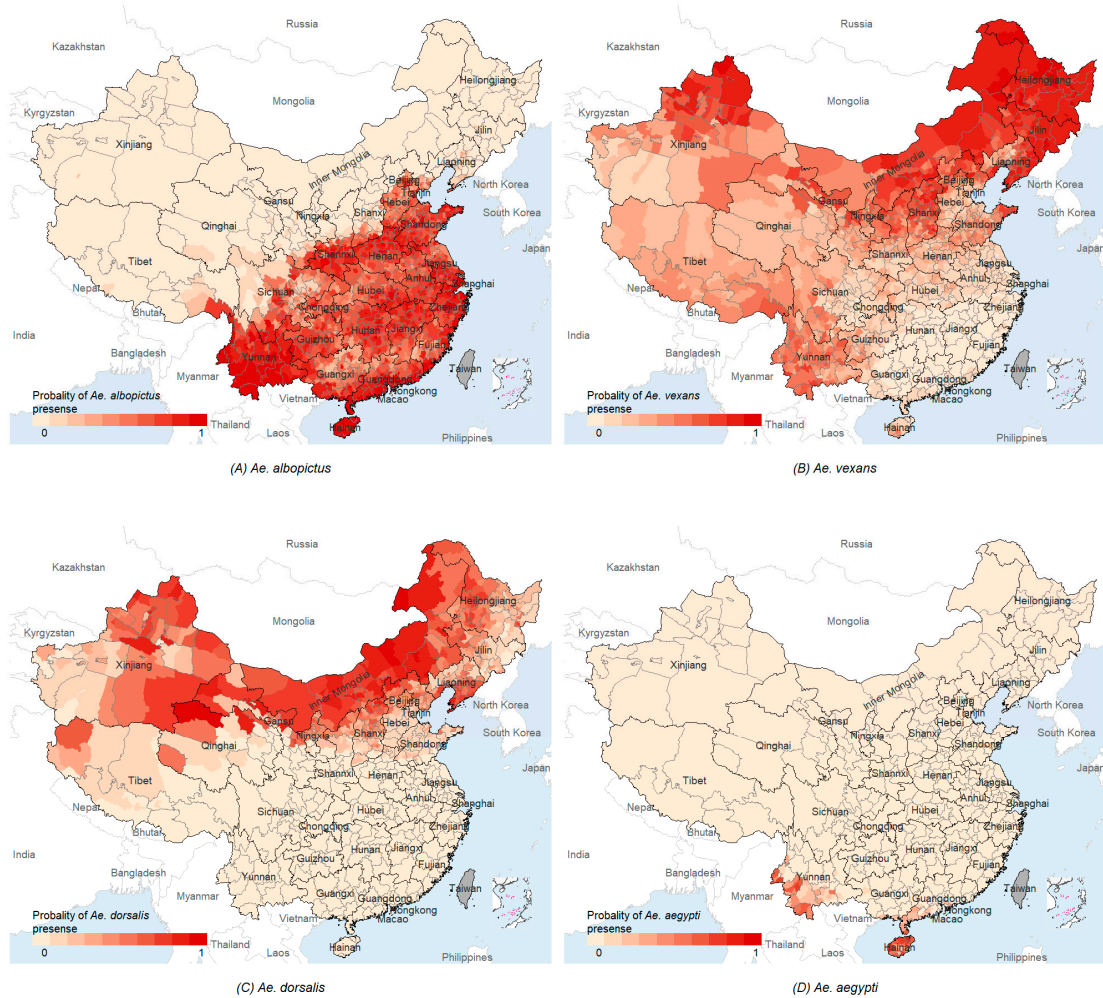
(G) *Cx. modestus*



(H) *Cx. fuscus*



Supplementary Figure S40 The predicted county-level distributions of the 13 most prevalent mosquito species in the *Culex* genus, averaged over the ensemble of BRT models (A) *Cx. tritaeniorhynchus*, (B) *Cx. pipiens quinquefasciatus*, (C) *Cx. pipiens pallens*, (D) *Cx. Bitaeniorhynchus*, (E) *Cx. Vagans*, (F) *Cx. Halifaxia*, (G) *Cx. Modestus*, (H) *Cx. Fuscanus*, (I) *Cx. mimeticus*, (J) *Cx. pseudovishnui*, (K) *Cx. fuscocephala*, (L) *Cx. whitmorei* and (M) *Cx. mimulus*. Source data are provided as a Source Data file.

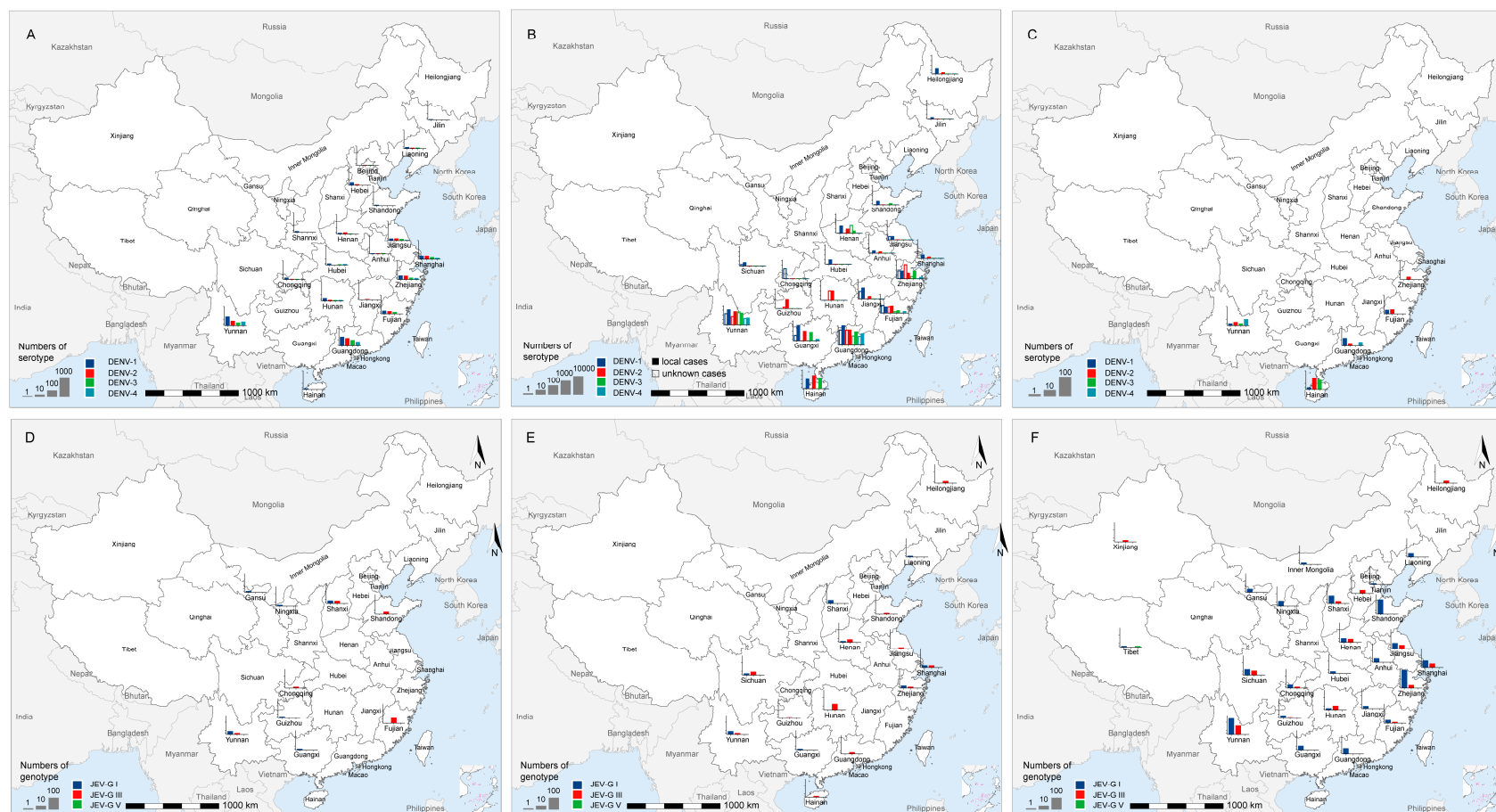


Supplementary Figure S41 The predicted county-level distributions of the four most prevalent mosquito species in the *Aedes* genus, averaged over the ensemble of BRT models (A) *Ae. albopictus*, (B) *Ae. vexans*, (C) *Ae. dorsalis* and (D) *Ae. aegypti*. Source data are provided as a Source Data file

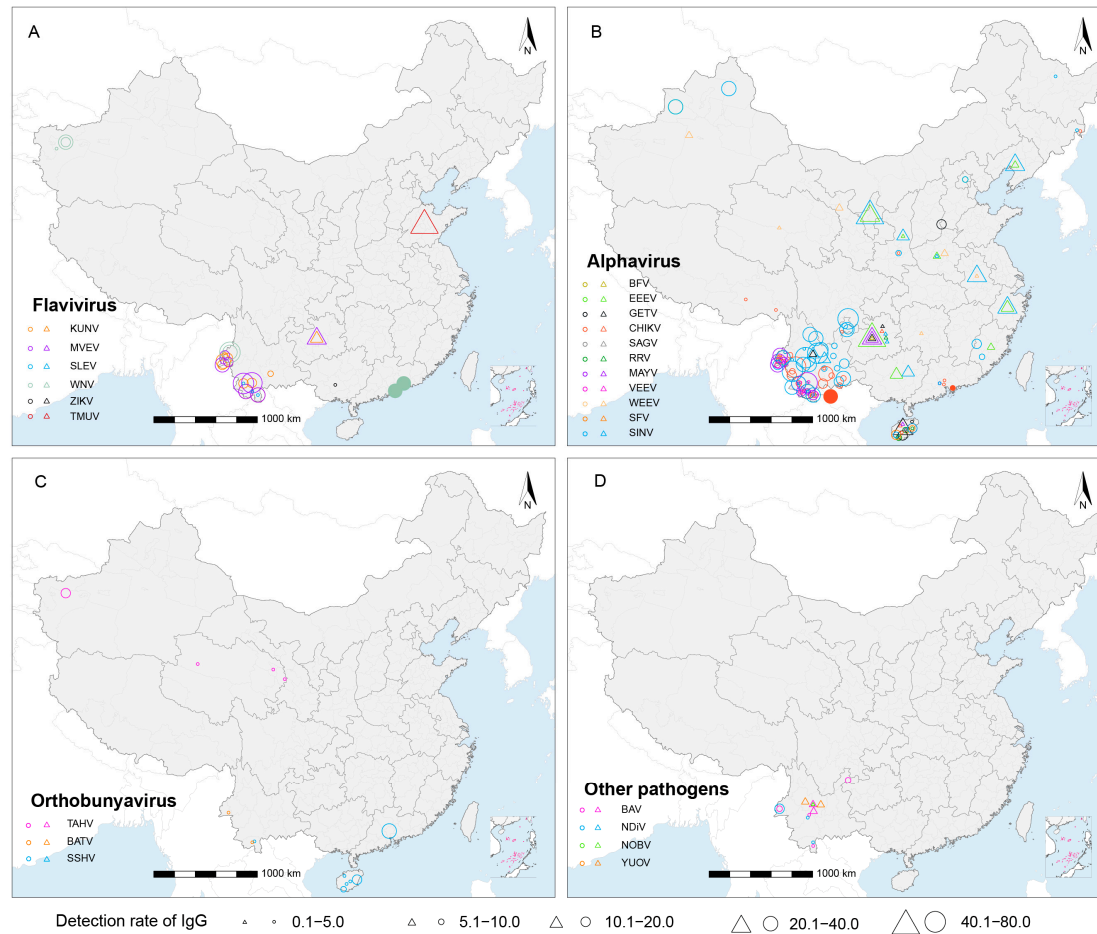
Supplementary Table S8. The mosquito-borne arboviruses included in current study.

Family	Genus	Name of viruses	Abbreviation	Infectivity
<i>Flaviviridae</i>	<i>Flavivirus</i>	Japanese encephalitis virus	JEV	*
		Dengue virus	DENV	*
		Yellow fever virus	YFV	*
		Zika virus	ZIKV	*
		West Nile virus	WNV	*
		Tembusu virus	TMUV	*
		Kunjin virus	KUNV	*
		Murray Valley encephalitis virus	MVEV	*
		St. Louis encephalitis virus	SLEV	*
<i>Togaviridae</i>	<i>Alphavirus</i>	Getah virus	GETV	*
		Chikungunya virus	CHIKV	*
		Sindbis virus	SINV	*
		Venezuelan equine encephalitis virus	VEEV	*
		Western equine encephalitis virus	WEEV	*
		Eastern equine encephalitis virus	EEEV	*
		Ross River virus	RRV	*
		Mayaro virus	MAYV	*
		Barmah Forest Virus	BFV	*
		Semliki Forest virus	SFV	*
		Sagiyama virus	SAGV	*
		Ťahyňa virus	TAHV	*
		Oya virus	OYAV	*
<i>Peribunyaviridae</i>	<i>Orthobunyavirus</i>	Batai virus	BATV	*
		Ebinur Lake virus	EBIV	*
		Snowshoe hare virus	SSHV	*
		Tibet orbivirus	TIBOV	
		Yunnan orbivirus	YUOV	*
<i>Reoviridae</i>	<i>Orbivirus</i>	Novel orbivirus	NOBV	*
		Banna virus	BAV	*
<i>Reoviridae</i>	<i>Seadonavirus</i>	Mangshi virus	Mangshi virus	
		Kadipiro virus	KDV	*
		Nam Dinh virus	NDV	*
<i>Mesoniviridae</i>	<i>unknown</i>			
<i>Peribunyaviridae</i>	<i>Phlebovirus</i>	Rift Valley fever virus	RVFV	*
<i>Orthomyxoviridae</i>	<i>Quarantavirus</i>	Longchuan virus	Longchuan virus	
<i>Rhabdoviridae</i>	<i>Almendravirus</i>	Menghai rhabdovirus	MRV	

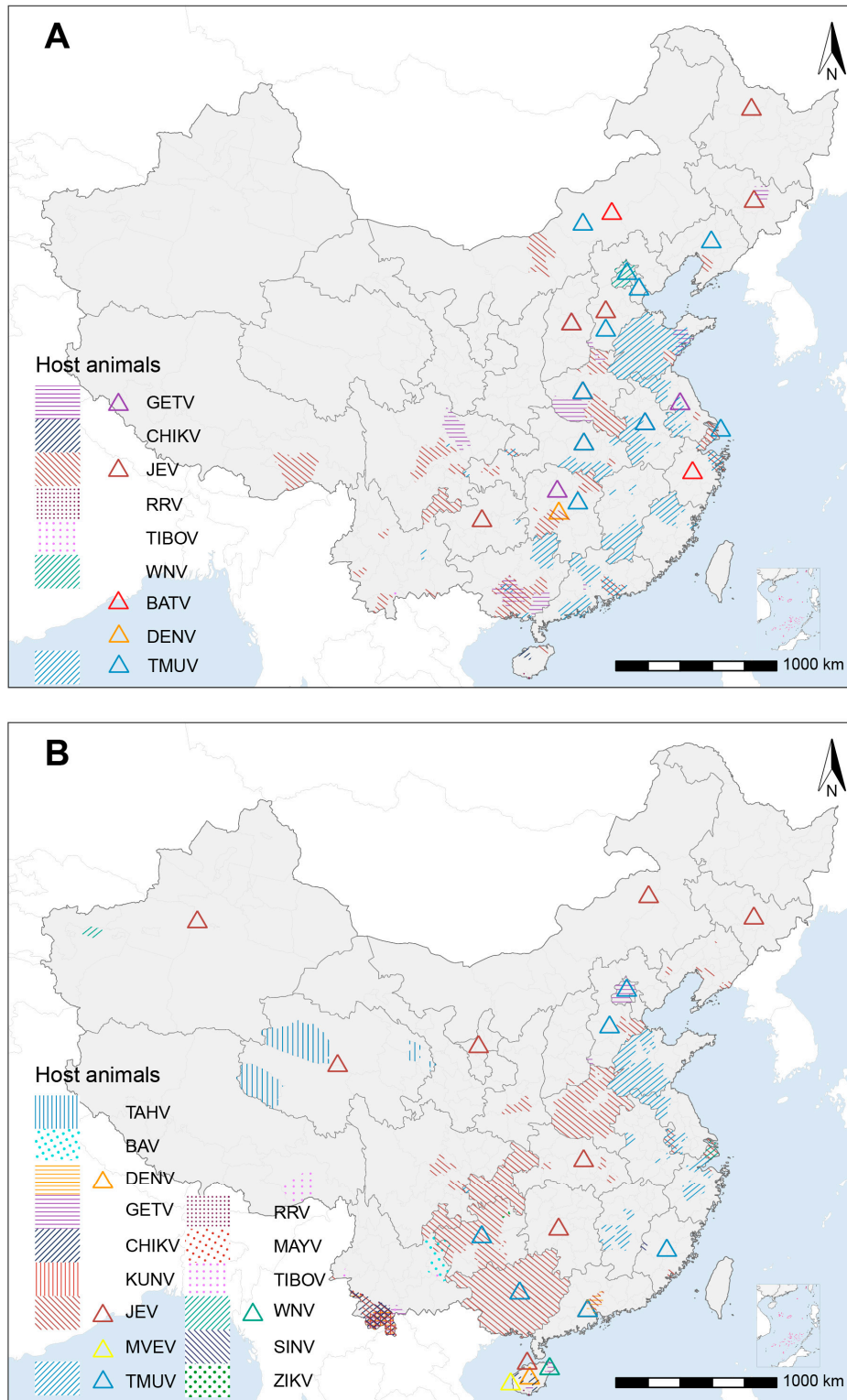
* Viruses infectious to humans.



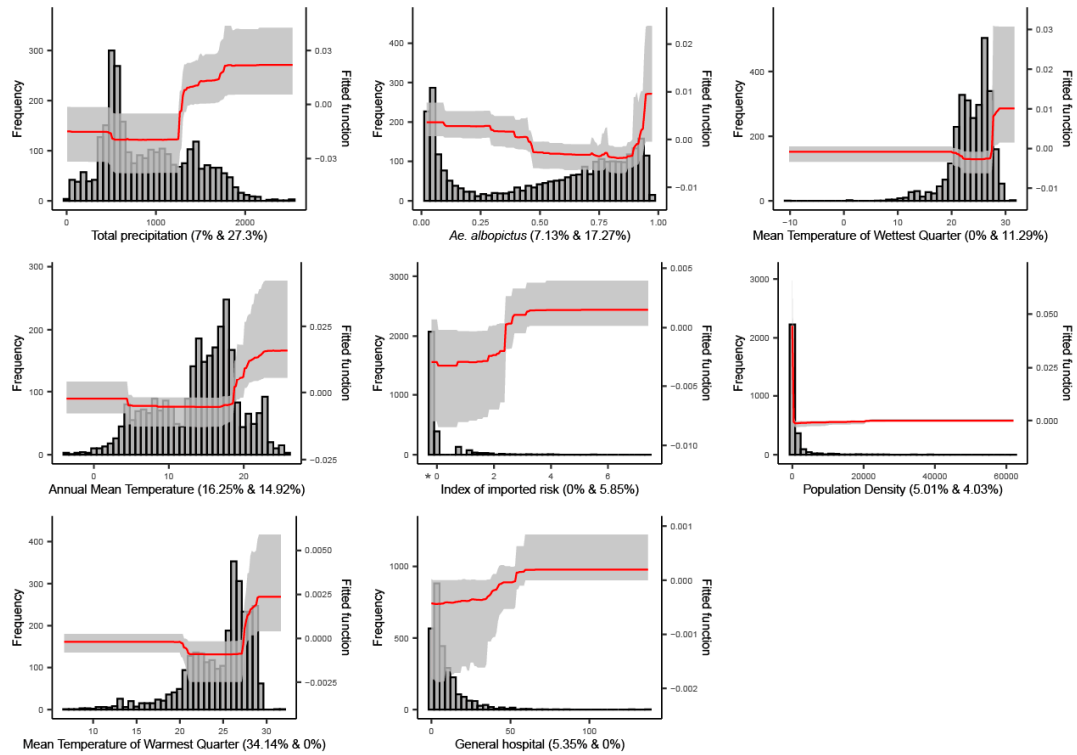
Supplementary Figure S42 The distribution of genotypes of JEV and serotypes of DENV from people, host animals and mosquitoes at the province level in China. (A) serotype of DENV from imported cases; (B) serotype of DENV from local and unknown cases; (C) serotype of DENV from mosquitoes; (D) genotype of JEV from cases; (E) genotype of JEV from host animals; (F) genotype of JEV from mosquitoes.



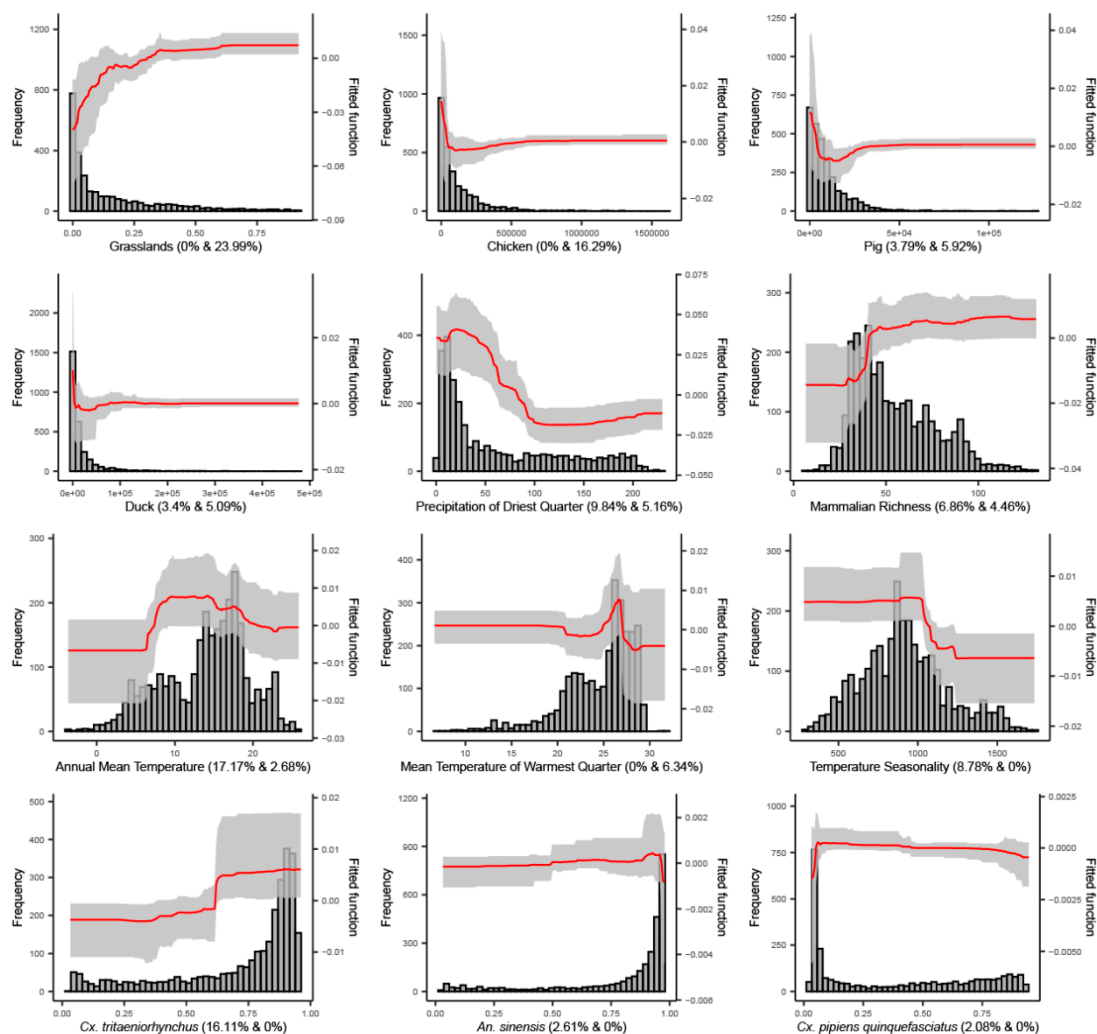
Supplementary Figure S43 The locations of IgG against mosquito-borne arboviruses detected from humans in during 1954–2020 in China. Data were plotted at the county or prefecture level, depending on available resolution in the literature. The viruses detected only at province level was represented as triangle. (A) Flavivirus; (B) Alphavirus; (C) Orthobunyavirus; (D) other viruses.



Supplementary Figure S44 The locations of mosquito-borne arboviruses detected in host animals during 1954–2020 in China. Data were plotted at the county or prefecture level, depending on available resolution in the literature. The viruses detected only at province level was represented as triangle. (A) detected with viruses or their IgM; (B) detected with IgG antibody. Source data are provided as a Source Data file.



Supplementary Figure S45 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 5\%$) on the predicted incidence rate of dengue based on the ensemble of two stages of GBRT models. The relative influences of predictors in the two models are shown in the parentheses. The former numbers represent the influences of first stage model (based on Logistic distribution) and the latter numbers represent the influences of second stage model (based on Gamma distribution). In the curve of index of imported risk, asterisk represent the index value of zero case.



Supplementary Figure S46 The mean curves (red) and 95% percentiles (gray) for the effects of major predictors ($RC \geq 5\%$) on the predicted incidence rate of Japanese encephalitis based on the ensemble of two stages of GBRT models. The relative influences of predictors in the two models are shown in the parentheses. The former numbers represent the influences of model based on Logistic distribution and the latter numbers represent the influences of model based on Gamma distribution.

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