

Supplementary materials

Plant diversity is more important than climate factors in driving insect richness pattern along a latitudinal gradient

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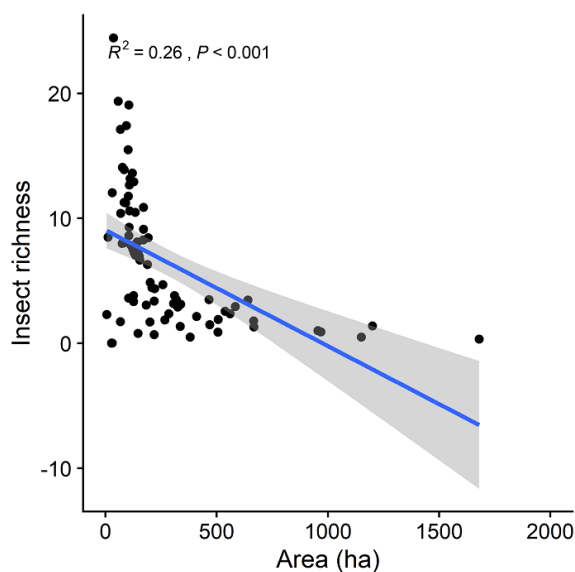


Figure S1. Relationships between area (ha) and insect richness. R^2 was used to estimate the explanatory power of the regression models.



Figure S2. Study points.

Table S1. The studied areas.

National Nature Reserves	Year Surveyed	Longitude	Latitude	Area (km ²)
Baagongshan	1984	29.5	109.9	449
Baishilizi	1998	40.5	124.5	74.67
Caohai	2005	26.8	104.2	120
Dawei Mountain	1999	23	104	457.03
Dawuling forest area	2012	22.3	111.2	35.34
Dong Zhai	1996	32	114	468
Longxi	2002	31.2	103.5	310
Fanjing	1982	27.9	108.8	410
Foping	2006	33.7	107.8	292.4
Extra Arid Desert	2014	40	94.8	8000
Westlake	2010	40	93	6634
Tao River	2006	34.4	103	2877.59
Gaoligongshan	1998	26.2	98.7	1200
Guniujiang	2006	30.1	117.8	67.13
Gudou Mountain	2017	22.2	113	110
Nanling	1993	24.7	113	538

Neilingding Island	2000	22.4	113.8	4.95
Xiangtau Mountain	2003	23.3	114.4	106.97
Daming Mountain	2010	23.4	108.6	169.94
Huaping forest area	2008	25.6	109.9	147
Nong Gang	2003	22.4	106.9	101
Ichang Orchidaceae	2012	24.8	106.3	220.62
Kanas	1989	48.9	87.4	2500
Jianfengling	2001	18.6	108.9	640
Yinggeling	2012	19	109.4	505.33
Sea tutuo	2014	40.6	115.8	126.34
Red pine depression	2005	42.3	117.4	73
Dabie Mountain	2012	31.8	115.5	106
Heilongjiang South	1999	51.4	125.5	2295.23
Zhalong	2005	47.2	124.2	2100
Hubei Back River	2005	30.1	110.6	409.65
Hubei nine Gong Mountain	2002	29.4	114.6	201.05
Hubei Nanhe	2010	32	111.4	148.34
Seven sisters	2006	29.9	109.7	345.5
Zhangzhou and Heyuan	2008	29	111	102.66
Taoyuan Hunan lingsien hole	1993	26.8	113.6	50
Six step brook	2005	28.4	110.9	142.4
Hunan Xiaoxi	2000	28.8	110.3	218.15
Yanling Taoyuan Hunan cave	2001	26.5	114.1	1132

The great Jia River	2002	46.9	133.6	726.04
Hunchun	2002	43.1	130.8	1087
Jiangsu Dafeng elk	1998	32.9	120.9	26.68
Jiangxi ganjianyuan	2013	26.3	116.4	158.26
Jiangxi nine Mountain	2009	28.9	115.5	115.41
Tao Hong Ling, Jiangxi	2004	29.8	116.6	125
Jinggangshan	1998	26.5	114.1	207
Shi Na Si	1996	48.9	87.3	2202
Wide water forest area	2004	28.2	107.1	218.4
Lancang River	2012	24.1	99.8	955.16
Old snake flush	2003	26.5	107.4	93.07
Leigong Mountain	1989	26.4	108.2	473
Liaoning Xian Man Cave	2002	40	123	35.75
Six Panshan reserve	2013	35.5	106.3	968
Mayang River	2015	28.8	108.2	311.13
Peony peak	1992	44.4	129.8	194.68
Mulan Wei Chang	2005	41.9	116.9	506.37
Southern Dongting Lake	1994	28.8	112.6	1680
South China Zhongshan	1989	24.5	100.9	112.23
Nanji Islands	2000	27.5	120	11.13
Dali Noel	2017	43.3	116.7	1194.14

Inner Mongolia Honghuaerji sylvestris Forest	2001	47.9	122.4	200
Ningxia Baijitan	1992	38.1	106.5	818
Helan mountain protection area in Ningxia	2011	38.8	106.2	1935
Heilongjiang nun River	2001	46.9	133.3	1605.95
Qinghai Chaidamu Haloxylon ammodendron Forest	2004	36.7	96.4	3105
Qilian Mountains	2007	38.1	100.6	68.06
Qinglong River	2013	40.8	119	699.12
Pang Quan gully, Shanxi	2014	37.8	111.5	104.44
Shedao LaoTieShan reserve	2016	39	121	145.95
Shennongjia	2015	31.5	110.3	704.67
Baoding Mountain	2008	32.5	104.1	636.15
Xiaolongshan	2012	34.3	106	319.38
Arhorchin	2015	44.1	120.3	1372.98
Matau Mountain	2006	27.5	117.1	5800
Wuyi Mountain	2001	27.4	117.8	53.6
Qiyun Mountain	2010	25.5	113.8	242.767
Tongbo Mountain	1998	28.1	118.2	4551
Lu Mountain	2010	29.3	115.8	1665.7
Kunyu Mountain	2002	37.1	121.4	224.23
Small Qinling Mountains	2004	34.3	110.3	380

Funiu Mountain	1994	33.5	112.5	134.35
Berman mountain	1994	33.3	111.9	143.36
Lian Kang Mountain	2009	31.3	114.5	75.45
