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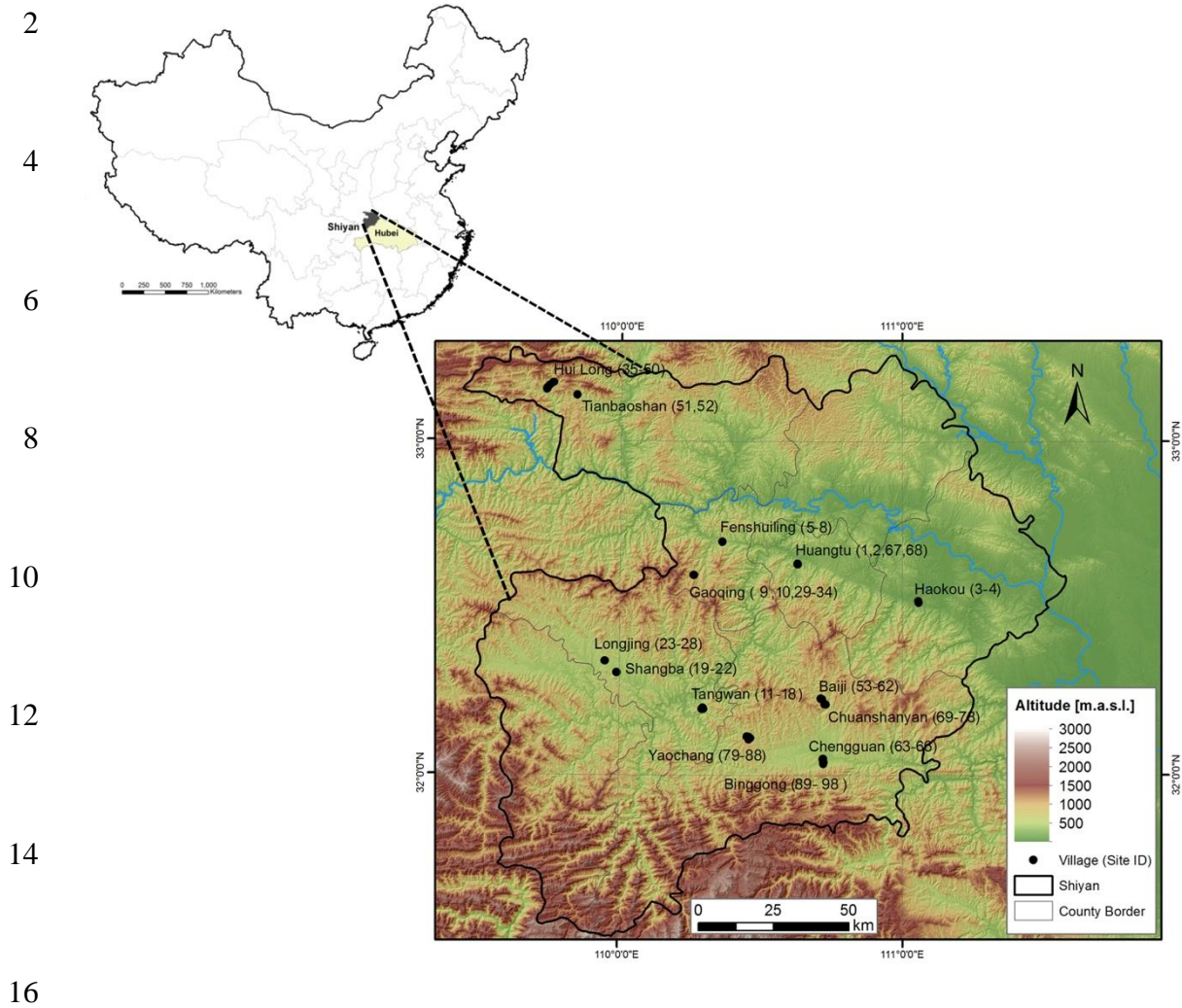
*Supplement of*

## **Ground cover rice production system facilitates soil carbon and nitrogen stocks at regional scale**

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## Supporting information



**Figure S1** Map of Shiyian, Hubei province in Central China, showing the location of the ground cover rice production system (GCRPS) expanding areas with paired traditional Paddy.

**Table S1** Geographical information of all 49 paired sampling fields of ground cover rice production system (GCRPS) and Paddy

Pair	County	Township	Village	Householder		Latitude N	Longitude E	Latitude N	Longitude E	Altitude (m)	
				GCRPS	Paddy	GCRPS	GCRPS	Paddy	Paddy	GCRPS	Paddy
1	Shiyan	Zhangwan	Huangtu	Zhang Dehua	Zhang Huibing	32 °38,063'	110 °37,716'	32 °38,043'	110 °37,767'	216	224
2	Shiyan	Zhangwan	Huangtu	Qin Shengfu	Qin Shengyan	32 °37,958'	110 °37,793'	32 °37,938'	110 °37,755'	248	256
3	Danjingkou	Liuliping	Haokou	Li Yugen	Ming Pinghe	32 °31,404'	111 °03,387'	32 °31,045'	111 °03,491'	169	186
4	Yun	Baoxia	Fenshuiling	Dong Huanquan	Yan Keren	32 °41,959'	110 °21,707'	32 °41,978'	110 °21,675'	350	352
5	Yun	Baoxia	Fenshuiling	Liang Xinjun	Lei Renbao	32 °41,974'	110 °21,697'	32 °41,948'	110 °21,682'	350	352
6	Yun	Baoxia	Gaoqiao	He Xianchun	He Xiangen	32 °35,972'	110 °15,668'	32 °35,946'	110 °15,704'	650	649
7	Zhushan	Wenfeng	Tangwan	Su Hengshan	Wen Shilin	32 °11,926'	110 °17,834'	32 °11,896'	110 °17,802'	438	449
8	Zhushan	Wenfeng	Tangwan	Su Hengshan	Su Henglin	32 °12,009'	110 °17,783'	32 °12,014'	110 °17,778'	436	436
9	Zhushan	Wenfeng	Tangwan	Su Hengtai	Su Henglin	32 °12,047'	110 °17,748'	32 °12,131'	110 °17,662'	419	447
10	Zhushan	Wenfeng	Tangwan	Yang Yingyi	Gan Shibing	32 °11,882'	110 °17,495'	32 °11,870'	110 °17,492'	427	452
11	Zhushan	Baofeng	Shangba	Zhang Xianshe	Zhang Shizhong	32 °18,406'	109 °59,418'	32 °18,438'	109 °59,361'	426	424
12	Zhushan	Baofeng	Shangba	Wang Daming	Liu Zhenhua	32 °18,408'	109 °59,422'	32 °18,396'	109 °59,387'	426	425
13	Zhushan	Baofeng	Longjing	Li Daolin	Zhu Shijun	32 °20,460'	109 °56,865'	32 °20,457'	109 °56,922'	502	508
14	Zhushan	Baofeng	Longjing	Zhang Zugen	Li Daolin	32 °20,456'	109 °56,866'	32 °20,496'	109 °56,835'	500	503
15	Zhushan	Baofeng	Longjing	Du Xiangmei	Li Daolin	32 °20,484'	109 °56,874'	32 °20,485'	109 °56,840'	505	504
16	Yun	Baoxia	Gaoqiao	Wang Yongcheng	Zhan Shiyong	32 °35,963'	110 °15,636'	32 °35,968'	110 °15,633'	652	652
17	Yun	Baoxia	Gaoqiao	Yu Benqing	Xie Huali	32 °35,970'	110 °15,672'	32 °35,954'	110 °15,702'	650	649

18	Yun	Baoxia	Gaoqiao	Yu Benxing	Zhan Shili	32 °35,958'	110 °15,671'	32 °35,948'	110 °15,687'	650	649
19	Yunxi	Guanfang	Huilong	Zhu Rongyu	Zhu Xingwu	33 °09,264'	109 °44,013'	33 °09,273'	109 °44,017'	539	539
20	Yunxi	Guanfang	Huilong	Kai Cailiang	Zhu Ronglan	33 °09,210'	109 °44,009'	33 °09,201'	109 °44,004'	529	527
21	Yunxi	Guanfang	Huilong	Zhu Rongyu	Kang Caixian	33 °09,530'	109 °44,181'	33 °09,519'	109 °44,181'	567	570
22	Yunxi	Guanfang	Huilong	Ming Lizheng	Zhu Xinghou	33 °09,592'	109 °44,241'	33 °09,467'	109 °44,121'	558	567
23	Yunxi	Guanfang	Huilong	Zhong Xiumei	Liu Xiangcheng	33 °10,422'	109 °45,475'	33 °10,417'	109 °45,466'	656	656
24	Yunxi	Guanfang	Huilong	Xie Changquan	Liu Xiangcheng	33 °10,425'	109 °45,444'	33 °10,420'	109 °45,467'	656	656
25	Yunxi	Guanfang	Huilong	Zhu Donggen	Zhu Qinghe	33 °10,426'	109 °45,410'	33 °10,422'	109 °45,399'	661	649
26	Yunxi	Guanfang	Huilong	Peng Jinao	Zhu Xingzhi	33 °09,946'	109 °44,605'	33 °09,341'	109 °44,075'	584	546
27	Yunxi	Dianzi	Tianbaoshan	Xie Yonggui	Zhang Hejun	33 °08,215'	109 °50,498'	33 °08,211'	109 °50,507'	585	585
28	Fang	Tucheng	Baiji	Kuang Jianwen	Wu Meiqing	32 °13,835'	110 °42,727'	32 °13,73'	110 °42,990'	600	590
29	Fang	Tucheng	Baiji	Yang Wanying	Yu Xingli	32 °13,840'	110 °42,727'	32 °13,758'	110 °42,919'	600	595
30	Fang	Tucheng	Baiji	Li Ruwu	Sun Xueyu	32 °13,849'	110 °42,729'	32 °13,748'	110 °42,822'	599	598
31	Fang	Tucheng	Baiji	Liu Yunhua	Yu Lichun	32 °13,774'	110 °42,875'	32 °13,722'	110 °42,998'	595	589
32	Fang	Tucheng	Baiji	Lu Ruhua	Li Daxi	32 °13,766'	110 °42,825'	32 °13,757'	110 °42,793'	596	599
33	Fang	Yaohuai	Yaochang	Zou Hongquan	Zhu Danfen	32 °06,725'	110 °27,758'	32 °06,987'	110 °27,093'	621	597
34	Fang	Yaohuai	Yaochang	Zhou Facai	Lu Dinghua	32 °06,729'	110 °27,762'	32 °06,940'	110 °27,166'	622	593
35	Fang	Yaohuai	Yaochang	Zhang Chenghua	Wang Jie	32 °06,42.4'	110 °27,45.0'	32 °06,940'	110 °27,168'	618	593
36	Fang	Yaohuai	Yaochang	Xia Jincheng	Wu Jifang	32 °06,926'	110 °27,467'	32 °06,967'	110 °27,074'	617	598
37	Fang	Yaohuai	Yaochang	Long Chuanxi	Lu Lixian	32 °06,896'	110 °27,557'	32 °06,930'	110 °27,173'	607	593

38	Fang	Chengguan	Binggong	Li Wenyun	Ji Taifa	32 °02,342'	110 °43,333'	32 °02,396'	110 °43,340'	466	460
39	Fang	Chengguan	Binggong	Che Haizhao	Zheng Huifu	32 °02,338'	110 °43,313'	32 °02,409'	110 °43,279'	466	458
40	Fang	Chengguan	Binggong	Che Youju	Xu Qiang	32 °02,337'	110 °43,307'	32 °02,375'	110 °43,298'	467	462
41	Fang	Chengguan	Binggong	Du Deyong	Li Wenyun	32 °02,340'	110 °43,328'	32 °02,413'	110 °43,297'	466	459
42	Fang	Chengguan	Binggong	Yu Xingzhong	Xu Lianmin	32 °02,376'	110 °43,329'	32 °02,380'	110 °43,347'	462	462
43	Fang	Chengguan	Erlanggang	Wang Xia	Liu Ming	32 °02,986'	110 °43,185'	32 °02,987'	110 °43,202'	433	433
44	Fang	Chengguan	Erlanggang	He Mingzu	Zhang Bin	32 °02,963'	110 °43,151'	32 °02,990'	110 °43,289'	435	430
45	Fang	Tucheng	Chuanshanyan	Xiao Longgui	Wang Qingshan	32 °12,767'	110 °43,708'	32 °12,827'	110 °43,680'	574	578
46	Fang	Tucheng	Chuanshanyan	Chen Qinghua	Chen Qinglin	32 °12,760'	110 °43,720'	32 °12,800'	110 °43,567'	573	571
47	Fang	Tucheng	Chuanshanyan	Chen Qingping	Chen Qinghe	32 °12,74'	110 °43,778'	32 °12,789'	110 °43,560'	576	570
48	Fang	Tucheng	Chuanshanyan	Wang Guoyun	Zhang Qinghua	32 °12,790'	110 °43,782'	32 °12,765'	110 °43,558'	575	570
49	Fang	Tucheng	Chuanshanyan	Chen Qingming	Gong Juxian	32 °12,762'	110 °43,817'	32 °12,762'	110 °43,553'	580	570