Supplementary Materials

Table S1 Error Matrix of the Lucao Sampling site on August 17

	Rice	Grains/ Vegetables	Wasteland	Building	Cemetery	Total	User's accuracy
Rice	154	35	1	0	11	201	77%
Grains/ Vegetables	7	3	3	0	0	13	23%
Wasteland	4	5	59	0	6	74	80%
Building	0	0	0	5	1	6	83%
Cemetery	2	1	5	0	5	13	38%
Total	167	44	68	5	23	307	-
Producer's accuracy	92%	7%	87%	100%	22%	-	-

Overall accuracy: 74% ; Kappa value: 0.546

Table S2 Error Matrix of the Lucao Sampling site on September 28

	Rice	Grains/ Vegetables	Wasteland	Building	Cemetery	Total	User's accuracy
Rice	219	11	28	1	6	265	83%
Grains/ Vegetables	9	4	4	0	0	17	24%
Wasteland	1	0	5	0	0	6	83%
Building	0	0	0	5	1	6	83%
Cemetery	1	0	5	1	6	13	46%
Total	230	15	42	7	13	307	-
Producer's accuracy	95%	27%	12%	71%	46%	-	-

Overall accuracy: 78% ; Kappa value: 0.359

Table S3 Error Matrix of the Minxiong Sampling site on September 7

	Rice	Grains/ Vegetables	Pineapple field	Greenhouse/ Building	Vacant lot	Total	User's accuracy
Rice	229	0	0	6	0	235	97%
Grains/ Vegetables	14	2	0	4	0	20	10%
Pineapple field	3	0	0	24	0	27	0%
Greenhouse/ Building	2	0	0	15	0	17	88%
Vacant lot	5	0	0	20	3	28	11%
Total	253	2	0	69	3	327	-
Producer's accuracy	91%	100%	-	22%	100%	-	-

Overall accuracy: 76%；Kappa value: 0.448

Table S4 Error matrix of the Minxiong Sampling site on October 5

	Rice	Grains/ Vegetables	Pineapple field	Greenhouse/ Building	Vacant lot	Total	User's accuracy
Rice	269	3	0	0	0	272	99%
Grains/ Vegetables	10	6	6	7	0	29	21%
Pineapple field	0	0	18	0	0	18	100%
Greenhouse/ Building	0	0	5	20	0	25	80%
Vacant lot	0	0	6	6	0	12	0%
Total	279	9	35	33	0	356	-
Producer's accuracy	96%	67%	51%	61%	-	-	-

Overall accuracy: 88%；Kappa value: 0.668

Table S5 Error Matrix of the Xingang Sampling site on September 13

	Rice	Greenhouse/ Building	Grains/ Vegetables	Vacant lot	Total	User's accuracy
Rice	197	16	27	0	240	82%
Greenhouse/ Building	2	64	2	0	68	94%
Grains/ Vegetables	12	3	15	0	30	50%
Vacant lot	4	19	11	4	38	11%
Total	215	102	55	4	376	-
Producer's accuracy	92%	63%	27%	100%	-	-

Overall accuracy: 74% ; Kappa value: 0.555

Table S6 Error Matrix of the Xingang Sampling site on October 26

	Rice	Greenhouse/ Building	Grains/ Vegetables	Vacant lot	Total	User's accuracy
Rice	157	47	0	0	204	77%
Greenhouse/ Building	0	60	0	0	60	100%
Grains/ Vegetables	23	33	2	0	58	3%
Vacant lot	5	28	0	0	33	0%
Total	185	168	2	0	355	-
Producer's accuracy	85%	36%	100%	-	-	-

Overall accuracy: 62% ; Kappa value: 0.382

Table S7 Error Matrix of the Budai Sampling site on September 6

	Fish farm	Empty pond	Woodland	Vacant lot	Building	Total	User's accuracy
Fish farm	99	0	9	7	0	115	86%
Empty pond	0	0	0	0	0	0	-
Woodland	9	0	49	0	0	58	84%
Vacant lot	0	0	0	41	3	44	93%
Building	0	0	0	5	9	14	64%
Total	108	0	58	53	12	231	-
Producer's accuracy	92%	-	84%	77%	75%	-	-

Overall accuracy: 86%；Kappa value: 0.783

Table S8 Error Matrix of the Budai Sampling site on October 15

	Fish farm	Empty pond	Woodland	Vacant lot	Building	Total	User's accuracy
Fish farm	97	0	21	3	0	121	80%
Empty pond	0	4	0	6	0	10	40%
Woodland	9	0	14	3	0	26	54%
Vacant lot	1	0	0	86	0	87	99%
Building	0	19	0	0	0	19	0%
Total	107	23	35	98	0	263	-
Producer's accuracy	91%	17%	40%	88%	-	-	-

Overall accuracy: 76%；Kappa value: 0.649

Table S9 Error Matrix of the Yizhu Sampling site on August 10

	Fish farm	Building	Rice field	Empty pond/ Wasteland	Total	User's accuracy
Fish farm	34	0	0	141	175	19%
Building	0	20	0	5	25	80%
Rice field	7	0	50	0	57	88%
Empty pond/ Wasteland	16	0	0	152	168	90%
Total	57	20	50	298	425	-
Producer's accuracy	60%	100%	100%	51%	-	-

Overall accuracy: 60%；Kappa value: 0.387

Table S10 Error Matrix of the Yizhu Sampling site on September 21

	Fish farm	Building	Rice field	Empty pond/ Wasteland	Total	User's accuracy
Fish farm	159	0	16	0	175	91%
Building	0	22	0	3	25	88%
Rice field	15	0	42	0	57	74%
Empty pond/ Wasteland	30	0	7	131	168	78%
Total	204	22	65	134	425	-
Producer's accuracy	78%	100%	65%	98%	-	-

Overall accuracy: 83%；Kappa value: 0.745