

**Table S1:** Confusion matrix between field recognition and image classification

Class	Built-up areas	Forests	Shrubs	Grasslands	Mangroves	Bare lands	Water areas	Total	Producer precision (%)
Built-up areas	44	0	0	0	0	6	0	50	88.0
Forests	0	50	0	0	0	0	0	50	100.0
Shrubs	1	13	21	13	0	1	0	49	42.9
Grasslands	0	8	8	34	0	0	0	50	68.0
Mangroves	0	5	2	0	36	4	0	47	76.6
Bare lands	3	0	0	0	0	43	0	46	93.5
Water areas	0	0	0	0	0	2	46	48	95.8
Total	48	76	31	47	36	56	46	340	
User precision (%)	91.7	65.8	67.7	72.3	100.0	76.8	100.0	80.6	