

**SUPPLEMENTARY**

**Supplementary Table S1.** Error matrix of the resultant LULC map

		Reference											Total	$W_i$	UA [%]	OA [%]
		Water	Urban	Rice	Crops	Grass/ Shrub	Orchard/ Crop	Barren	EBF	CF	DF	PF				
<b>Map</b>	Water	141	2	0	4	0	0	3	0	0	0	0	0	150	0.032	94.0 ± 1.9
	Urban	0	134	0	3	3	5	4	0	0	0	1	0	150	0.025	89.3 ± 2.5
	Rice	20	3	274	2	1	0	0	0	0	0	0	0	300	0.127	91.3 ± 1.6
	Crops	5	15	0	273	3	2	0	0	0	0	2	0	300	0.112	91.0 ± 1.7
	Grass/Shrub	0	1	1	15	236	4	2	34	0	0	7	0	300	0.150	78.7 ± 2.4
	Orchard/Crop mosaic	1	7	2	24	16	236	8	1	0	0	5	0	300	0.112	78.7 ± 2.4
	Barren	0	6	0	13	18	2	111	0	0	0	0	0	150	0.043	74.0 ± 3.6
	EBF	0	0	0	0	1	0	0	286	2	3	8	0	300	0.243	95.3 ± 1.2
	Coniferous forest (CF)	1	1	0	2	0	0	2	19	114	1	10	0	150	0.006	76.0 ± 3.5
	Deciduous forest (DF)	0	0	2	16	1	2	16	3	0	110	0	0	150	0.029	73.3 ± 3.6
	Plantation forest (PF)	2	1	0	1	8	8	0	22	0	0	258	0	300	0.113	86.0 ± 2.0
	Mangrove (MGR)	3	0	0	6	0	1	0	0	0	0	1	139	150	0.007	92.7 ± 2.1
	Total	173	170	279	359	287	260	146	365	116	114	292	139	2700	1	
	PA [%]	72.1 ± 5.3	64.0 ± 6.3	98.6 ± 1.9	79.5 ± 2.7	87.3 ± 3.2	92.1 ± 3.3	79.0 ± 5.4	89.6 ± 1.7	73.8 ± 18.8	89.6 ± 7.4	88.0 ± 3.3	100.0 ± 2.3			

PA = Producer's Accuracy, UA = User's Accuracy, OA = Overall Accuracy,  $W_i$  = area weight

EBF = Evergreen broadleaf forest

**Supplementary Table S2.** Error matrix of the of the resultant LULC map in terms of Forest/Non-Forest

		Map			PA [%]
		Non Forest	Forest	Total	
Reference	Non Forest	1749	64	1813	96.5
	Forest	51	836	887	94.3
	Total	1800	900	2700	
	UA [%]	97.2	92.9		OA = 95.7%