

Table S1. The accuracy assessment of LULC mapping of six classifiers using Kappa coefficient.

LULC classifier	User's Accuracy (%)						Producer's Accuracy (%)						Overall Accuracy (%)	Kappa Coefficient
	Agricultural land	Built-up area	Sand bar	Fallow land	Vegetation	Rivers and Wetlands	Agricultural land	Agricultural land	Built-up area	Sand bar	Fallow land	Vegetation		
SVM	93	88.88	80	90	88.5	90	84.54	89.88	66.66	78.94	96.19	95.74	89.6	0.86
SAM	93	88.88	70	82	88.5	84	83.78	89.88	46.66	77.35	95.16	93.33	88	0.84
RF	94	94.4	80	92	91.5	92	87.85	91.39	72.72	88.46	96.31	95.83	92.4	0.89
MD	89	88.88	70	82	87	84	80.18	87.91	46.66	69.49	94.05	93.333	86.6	0.82
Fuzzy ARTMAP	93	88.8	80	90	88.5	84	85.32	89.88	50	78.94	96.72	95.45	0.85	0.85
ANN	94	88.88	80	90	88.5	92	84.68	89.88	72.72	80.35	96.19	95.83	90	0.87

Note: SVM: support vector machine; SAM: spectral angle mapper; RF: random forest; MD: mahalanobis distance; Fuzzy ARTMAP: fuzzy adaptive resonance theory-supervised predictive mapping; ANN: artificial neural network.