

Appendix A

Table S1. Classification of accuracy (%) for the GEE PBTC land cover map for the year 1990.

The highlighted gray cells indicate agreement of the accuracy matrix.

1990 LULC Class	WA	OT	CR	Mix WS	DD	SEG	EG	BB	FF	User's Accuracy (%)
WA	6									100
OT		7	2						7	78
CR			59							100
Mix WS			1	45						98
DD				5	88	2				93
SEG					5	62	7			84
EG						6	59			91
BB						2		3		60
FF									60	100
Producer's accuracy (%)	100	100	95	90	95	89	87	100	100	Total Accuracy 92.84%

Kappa 0.91

Total reference points 419

Note: The detail accuracy assessment was validated using the Google Earth very high resolution imagery for the PBTC land cover class, Water (WA), Others (OT), Croplands (CR), Mix Woods and Shrubs (Mix WS), Deciduous forest (DD), Semi-evergreen forest (SE), Evergreen forest (EG), Bamboo (BB) and Flooded forest (FF) respectively. We used 419 5km x 5km systematic reference points to validate the GEE-PBTC threshold map.

Table S2. Results of the accuracy assessment of the GEE PBTC land cover map for 1995.

1995 LULC Class	WA	OT	CR	Mix WS	DD	SEG	EG	BB	FF	User's Accuracy (%)
WA	9									100
OT		4	1							80
CR		4	69	2						92
Mix WS			1	42	3					91
DD				1	98	2				97
SEG					8	58	1			87
EG						8	48			86
BB								2		100
FF									58	100
Producer's accuracy (%)	100	50	97	93	90	85	98	100	100	Total Accuracy 92.60%

Kappa 0.91

Total reference points 419

Table S3. Results of the accuracy assessment of the GEE PBTC land cover map for 2000.

2000 LULC Class	WA	OT	CR	Mix WS	DD	SEG	EG	BB	FF	User's Accuracy (%)
WA	9									100
OT	2	7	2							64
CR		5	71	3						90
Mix WS			8	37						82
DD				4	99	1				95
SEG					1	57	2			95
EG						4	46		1	90
BB								2		100
FF									58	100
Producer's accuracy (%)	82	58	88	84	99	92	96	67	100	Total Accuracy 92.12%

Kappa 0.91

Total reference points 419

Table S4. Results of the accuracy assessment of the GEE PBTC land cover map for 2005.

2005 LULC Class	W A	O T	C R	Mix WS	D D	SE G	E G	R B	BB	FF	User's Accuracy (%)
WA	10										100
OT	3	5	3								45
CR			85	2							98
Mix WS				45	3	1					92
DD				5	96	8					88
SEG				1		56					98
EG						3	32				91
RB											-
BB							1		3		75
FF										57	100
Producer's accuracy (%)	77	100	97	85	97	82	97	-	100	100	Total Accuracy

Kappa 0.91
Total reference points 419

Table S5. Results of the accuracy assessment of the GEE PBTC land cover map for 2010.

2010 LULC Class	W A	O T	C R	Mix WS	D D	SE G	E G	R B	B B	FF	User's Accuracy (%)
WA	5										100
OT	1	14	3								78
CR		1	86								99
Mix WS			4	37	3						84
DD			1	6	95	1					92
SEG					1	59	3	1			92
EG						5	31	1	1		82
RB											-
BB							1		2		67
FF			1							56	98
Producer's accuracy (%)	83	93	91	86	96	91	89	-	67	100	Total Accuracy

Kappa 0.90
Total reference points 419

Table S6. Results of the accuracy assessment of the GEE PBTC land cover map for 2015.

2015 LULC Class	W A	O T	CR	Mix WS	D D	SE G	E G	R B	B B	F F	User's Accuracy (%)
WA	6										100
OT	1	11	5								65
CR		2	150	8							94
Mix WS			3	23	2						82
DD			1	7	51	7					77
SEG						56		1	1		97
EG						2	22		1		88
RB								1			100
BB							1		3	1	60
FF			1							52	98
Producer's accuracy (%)	86	85	94	61	96	86	96	50	60	98	Total Accuracy

Kappa 0.87
Total reference points 419

Table S7. Results of the accuracy assessment of the GEE PBTC land cover map for 2018.

2018 LULC Class	W A	O T	C R	Mix WS	D D	SE G	E G	R B	B B	FF	User's Accuracy (%)
WA	10										100
OT		7	4								64
CR			153	6							96
Mix WS			3	31	2						86
DD			1	6	51	4					82
SEG				3		55		1	1		92
EG						2	19		1		86

