forests

Supplementary materials



Figure S1: High resolution image from Google Earth in study area A on October 14, 2019.

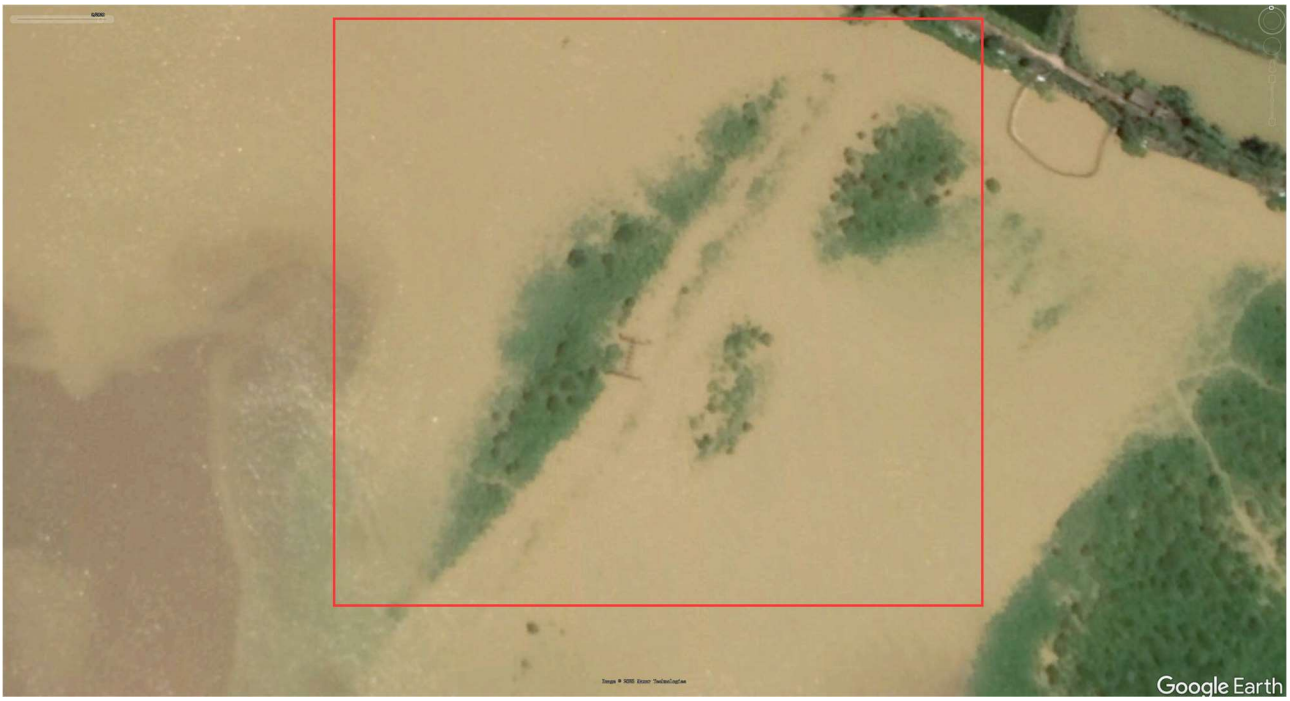


Figure S2: High resolution image from Google Earth in study area B on September 15, 2020.

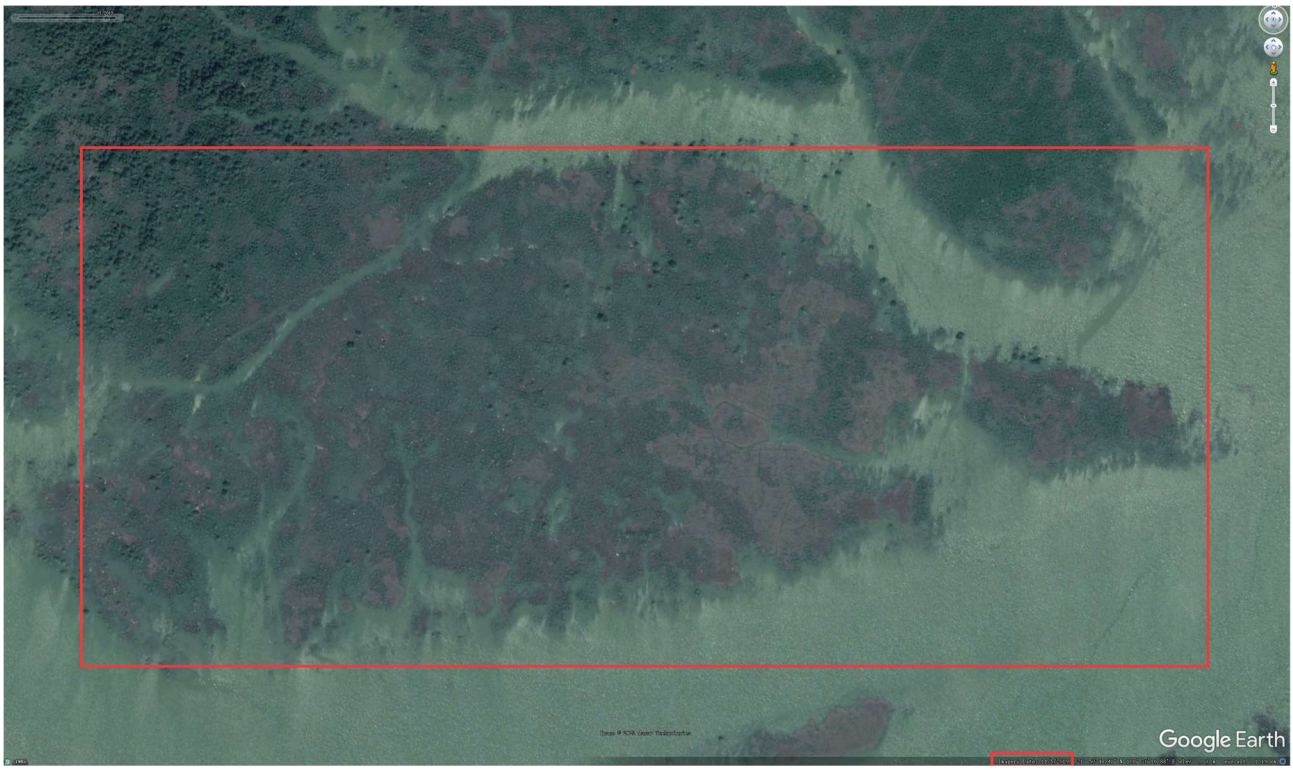


Figure S3: High resolution image from Google Earth in study area C on November 5, 2019.



Figure S4: High resolution image from Google Earth in study area D on February 21, 2021.

Table S1. The confusion matrices of land cover classification with some vegetation indices based on the GF-2 images.

IMII$_1$		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	1121	38	7	1166
	Other-vegetation	30	459	79	568
	Non-vegetation	23	42	870	935
	Total	1174	539	956	2669
IMII$_1$、NDWI		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	1126	18	5	1149
	Other-vegetation	36	489	77	602
	Non-vegetation	12	32	874	918
	Total	1174	539	956	2669

Table S2. The confusion matrices of land cover classification with some vegetation indices based on Sentinel-2 images in study area A.

IMII$_2$		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	812	75	7	894
	Other-vegetation	24	1056	115	1195
	Non-vegetation	4	18	623	645
	Total	840	1149	745	2734
EVI、NDVI		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	807	116	4	927
	Other-vegetation	29	1018	66	1113
	Non-vegetation	4	15	675	694
	Total	840	1149	745	2734

Table S3. The confusion matrices of land cover classification with some vegetation indices based on Sentinel-2 images in study area B.

SMRI		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	496	4	0	500
	Other-vegetation	11	533	72	616
	Non-vegetation	2	79	951	1032
	Total	509	616	1023	2148
$IMII_1$、NDVI、NDWI		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	499	5	0	504
	Other-vegetation	10	530	77	617
	Non-vegetation	0	81	946	1027
	Total	509	616	1023	2148

Table 4. The confusion matrices of land cover classification with some vegetation indices based on Sentinel-2 images in study area C.

$IMII_2$		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	798	65	1	864
	Other-vegetation	34	984	40	1058
	Non-vegetation	0	21	727	748
	Total	832	1070	768	2670
$IMII_2$、NDWI		**Validation**			
		Mangrove	Other-vegetation	Non-vegetation	Total
Actual	Mangrove	793	64	0	857
	Other-vegetation	39	987	36	1062
	Non-vegetation	0	19	732	751
	Total	832	1070	768	2670