



Supplement of

National-scale sub-meter mapping of *Spartina alterniflora* in mainland China 2020

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Supplementary

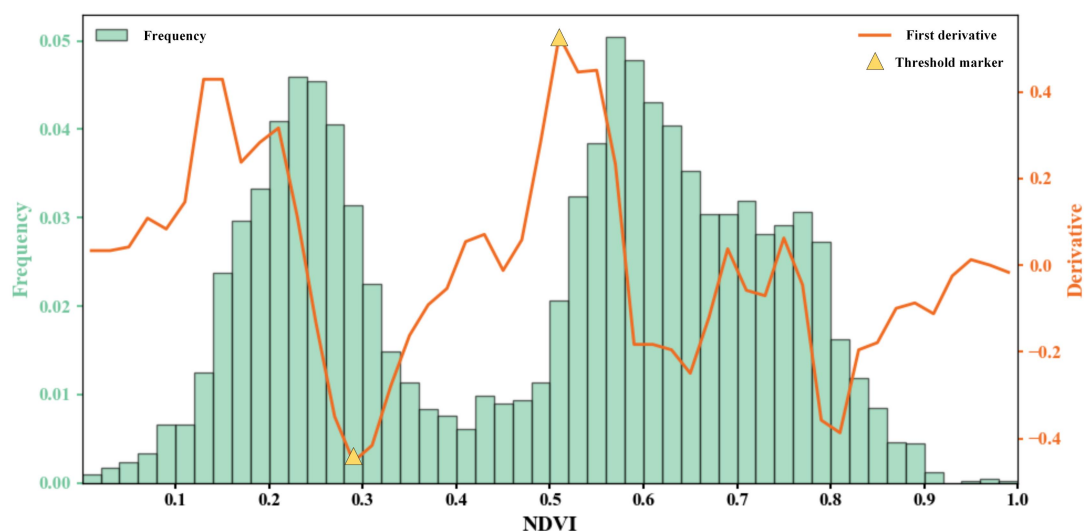


Figure S1: NDVI frequency distribution and first-order derivative curve for determining key phenological thresholds of *S. alterniflora* along the Jiangsu Coastal Zone.

Table S1 Classification accuracy assessment results of CMSA and CM-SSM in the Northern Coastal Zone.

Product	Class	PA (%)	UA (%)	F1	OA (%)
CMSA	<i>S. alterniflora</i>	84.00	72.41	0.78	87.63
	Non- <i>S. alterniflora</i>	88.89	94.12		
CM-SSM	<i>S. alterniflora</i>	96.30	89.66	0.93	95.88
	Non- <i>S. alterniflora</i>	95.71	98.53		

Table S2 Classification accuracy assessment results of CMSA and CM-SSM in the Yellow River Delta Coastal Zone.

Product	Class	PA (%)	UA (%)	F1	OA (%)
CMSA	<i>S. alterniflora</i>	86.43	72.89	0.79	86.83
	Non- <i>S. alterniflora</i>	86.99	94.06		
CM-SSM	<i>S. alterniflora</i>	98.11	93.98	0.96	97.33
	Non- <i>S. alterniflora</i>	96.94	99.06		

Table S3 Classification accuracy assessment results of CMSA and CM-SSM in the Jiangsu Coastal Zone.

Product	Class	PA (%)	UA (%)	F1	OA (%)
CMSA	<i>S. alterniflora</i>	64.67	59.33	0.62	77.45
	Non- <i>S. alterniflora</i>	82.50	85.54		
CM-SSM	<i>S. alterniflora</i>	93.77	92.05	0.93	95.66
	Non- <i>S. alterniflora</i>	96.48	97.27		

Table S4 Classification accuracy assessment results of CMSA and CM-SSM in the Yangtze River Estuary Coastal Zone.

Product	Class	PA (%)	UA (%)	F1	OA (%)
CMSA	<i>S. alterniflora</i>	83.33	8.40	0.15	72.11
	Non- <i>S. alterniflora</i>	71.76	99.28		
CM-SSM	<i>S. alterniflora</i>	99.02	84.87	0.91	95.23
	Non- <i>S. alterniflora</i>	93.92	99.64		

Table S5 Classification accuracy assessment results of CMSA and CM-SSM in the Southern Coastal Zone.

Product	Class	PA (%)	UA (%)	F1	OA (%)
CMSA	<i>S. alterniflora</i>	80.47	55.56	0.66	79.66
	Non- <i>S. alterniflora</i>	79.41	92.71		
CM-SSM	<i>S. alterniflora</i>	97.99	92.76	0.95	96.79
	Non- <i>S. alterniflora</i>	96.20	98.97		

Table S6 Mean SOC stock per unit area of *S. alterniflora* across China in 2020 (mean ± SE, Standard Error).

Province	SOC stock (Mg ha ⁻¹)
Hebei	59.2±2.3
Tianjin	46.3±1.3
Shandong	44.0±1.4
Jiangsu	56.9±5.5
Shanghai	80.4±2.9
Zhejiang	60.6±2.3
Fujian	50.1±2.7
Guangdong	72.5±8.1
Guangxi	33.3±1.5