SUPPLEMENTARY DOCUMENT

Formula S1. Conversion of DN images (Landsat 8 OLI) to surface reflectance images (Landsat, 2016).

The DN values were converted into top of the atmosphere (TOA) reflectance without sun angle correction using the following formula:

$$p\lambda' = M_p Q_{cal} + A_p$$

Where $p\lambda'$: TOA planetary reflectance, without correction for solar angle. Note that $p\lambda$ does not contain a correction for the sun angle; M_p: Band-specific multiplicative rescaling factor from the metadata (REFLECTANCE_MULT_- BAND_x, where x is the band number); A_p: Band-specific additive rescaling factor from the metadata (REFLECTANCE_ADD_BAND_x, where x is the band number); Q_{cal}: Quantized and calibrated standard product pixel values (DN).

Afterward, the Sun Angle correction have been achieved using the following formula:

$$p\lambda = p\lambda'/\cos(\theta_{SZ}) = p\lambda'/\sin(\theta_{SE})$$

Where $p\lambda$: TOA planetary reflectance; θ_{SE}: Local sun elevation angle, The scene center sun elevation angle in degrees is provided in the metadata (SUN_ELEVATION); θ_{SZ}: Local solar zenith angle; $\theta_{SZ} = 90^0 - \theta_{SE}$

Table S1. Wetland transition statistics (1995-2002); *(1): marine water bodies (2): inland water bodies, (3): mangrove forests, (4): sparse mangrove/saltmarshes, (5): forested wetlands, (6): rice fields/other crops, (7): aquaculture ponds.*

		1995														
	Wetland classes	**(1)**		**(2)**		**(3)**		**(4)**		**(5)**		**(6)**		**(7)**		**Coverage 2002**
		km²	%	km²	%	km²	%	km²	%	km²	%	km²	%	km²	%	
2002	**(1)**	18.2	52.5	0.6	0.4	17.7	2.9	1.4	0.2	0.0	0.0	0.1	0.0	0.6	0.1	38.6
	(2)	0.8	2.4	126.7	89.6	5.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.7
	(3)	15.2	43.9	0.0	0.0	361.7	59.2	148.2	23.3	0.0	0.0	0.0	0.0	71.0	10.7	596.1
	(4)	0.3	0.7	0.0	0.0	115.5	18.9	163.3	25.7	0.0	0.0	33.5	1.1	71.2	10.8	383.8
	(5)	0.0	0.0	14.1	10.0	0.0	0.0	0.0	0.0	520.2	83.7	66.1	2.2	0.0	0.0	600.4
	(6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.9	14.6	1642.9	54.1	0.0	0.0	1733.7
	(7)	0.0	0.0	0.0	0.0	108.1	17.7	286.7	45.2	6.0	1.0	1104.6	36.4	518.6	78.4	2054.7
Coverage 1995		34.6	-	141.4	-	611.0	-	634.5	-	621.4	-	3036.8	-	661.4	-	-
Class Changes		16.3	47.0	14.7	10.4	246.3	40.3	436.3	68.8	96.9	15.6	1204.2	39.7	142.8	21.6	16.3
Change (1995-2002)		4.0	11.6	-1.8	-1.2	-15.0	-2.5	-250.8	-39.5	-21.0	-3.4	-1303.1	-42.9	1393.3	210.7	-

Table S2. Wetland transition statistics (2002-2013)

		2002														
	Wetland classes	**(1)**		**(2)**		**(3)**		**(4)**		**(5)**		**(6)**		**(7)**		**Coverage 2013**
		km²	%	km²	%	km²	%	km²	%	km²	%	km²	%	km²	%	
2013	**(1)**	28.1	72.7	2.1	1.5	34.2	5.7	2.7	0.7	0.0	0.0	2.2	0.1	2.8	0.1	72.1
	(2)	0.5	1.2	135.8	97.2	0.0	0.0	0.0	0.0	2.6	0.4	0.0	0.0	0.0	0.0	138.9
	(3)	9.4	24.2	0.0	0.0	371.8	62.4	114.3	29.8	0.1	0.0	0.0	0.0	73.6	3.6	569.2
	(4)	0.7	1.9	0.0	0.0	120.9	20.3	160.8	41.9	0.0	0.0	0.3	0.0	119.3	5.8	470.8
	(5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	447.2	74.5	59.1	3.4	0.0	0.0	513.1
	(6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.5	23.2	1470.1	84.8	63.4	3.1	1673.1
	(7)	0.0	0.0	0.0	0.0	62.2	10.4	106.0	27.6	10.9	1.8	194.2	11.2	1709.9	83.2	2083.2
Coverage 2002		38.6	-	139.7	-	596.1	-	383.8	-	600.4	-	1733.7	-	2054.7	-	-
Class Changes		10.6	27.3	2.1	1.5	217.2	36.4	223.0	58.1	153.1	25.5	255.8	14.8	259.1	12.6	-
Change (2002-2013)		33.5	86.6	-0.8	-0.6	-26.9	-4.5	87.0	22.7	-87.3	-14.5	-60.6	-3.5	28.5	1.4	-

Table S3. Wetland transition statistics (2013-2020)

		2013														
	Wetland classes	**(1)**		**(2)**		**(3)**		**(4)**		**(5)**		**(6)**		**(7)**		**Coverage 2020**
		km²	%	km²	%	km²	%	km²	%	km²	%	km²	%	km²	%	
2020	**(1)**	62.6	86.8	0.7	0.5	13.3	2.3	1.3	0.3	0.0	0.0	0.1	0.0	0.6	0.0	79.3
	(2)	0.4	0.5	125.4	90.3	4.1	0.7	2.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	132.6
	(3)	8.8	12.2	0.0	0.0	416.4	73.1	123.5	26.2	0.0	0.0	0.0	0.0	32.4	1.6	581.0
	(4)	0.3	0.5	0.0	0.0	108.5	19.1	181.2	38.5	0.0	0.0	1.0	0.1	84.4	4.1	375.4
	(5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	381.1	74.3	42.8	2.6	0.0	0.0	423.8
	(6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.5	16.3	748.7	44.7	0.0	0.0	832.2
	(7)	0.0	0.0	0.0	0.0	25.1	4.4	61.3	13.0	39.5	7.7	801.5	47.9	1965.8	94.4	2942.9
Coverage 2013		72.1	-	138.9	-	569.2	-	470.8	-	513.1	-	1673.1	-	2083.2		-
Class Changes		9.5	13.2	0.7	0.5	150.9	26.5	188.7	40.1	123.0	24.0	845.3	50.5	117.3	9.5	-
Change (2013-2020)		7.3	10.1	-6.3	-4.5	11.8	2.1	-95.5	-20.3	-89.3	-17.4	-840.9	-50.3	859.7	41.3	-

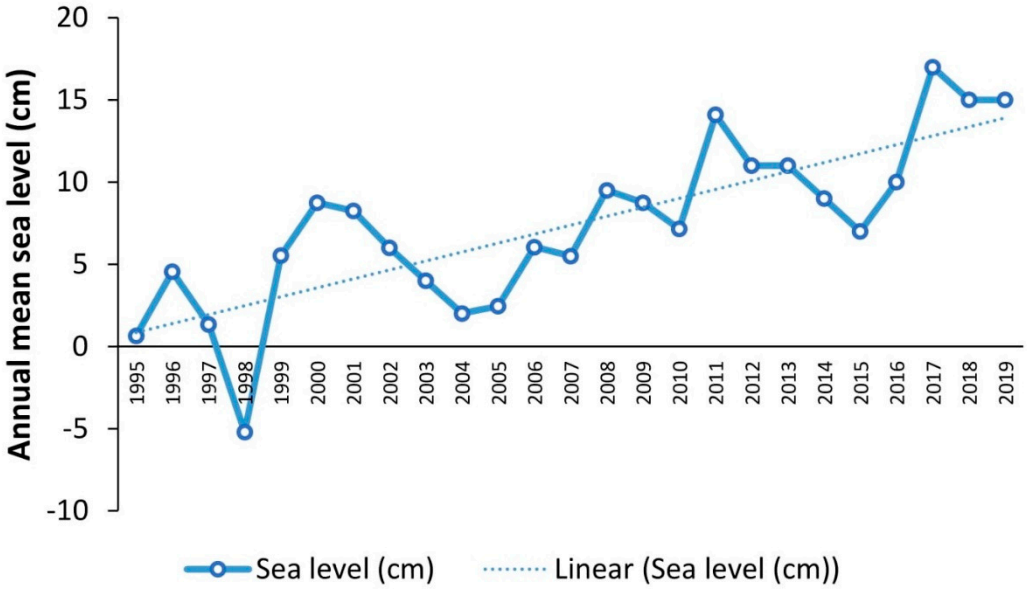

Figure S1. Sea level trend in the west sea of the Mekong Delta, Vietnam (1995-2019).

Reference

Landsat, U. S. G. S. (2016). 8 (L8) Data Users Handbook Version 2.0. *EROS, Sioux Falls, South Dakota*.