

Table S1. Description of satellite images used

Year	Season	Date	Image ID	Sun azimuth	Sun elevation	Earth-Sun distance
2006	Dry	May 5th	LE07_L1TP_001071_20060526_20200914_02_T1	40,38	41,95	1,01
			LE07_L1TP_001072_20060526_20200914_02_T1	39,77	40,7	1,01
	Wet	October 1st	LE07_L1TP_001071_20061001_20200913_02_T1	69,58	58,42	1
			LE07_L1TP_001072_20061001_20200913_02_T1	67,61	57,69	1
2009	Dry	September 7th	LE07_L1TP_001071_20090907_20200912_02_T1	57,25	52,2	1
			LE07_L1TP_001072_20090907_20200911_02_T1	55,94	51,22	1
	Wet	March 15th	LE07_L1TP_001071_20090315_20200912_02_T1	70,76	53,76	0,99
			LE07_L1TP_001072_20090315_20200912_02_T1	69,1	53,06	0,99
2012	Dry	June 27th	LE07_L1TP_001071_20120627_20200909_02_T1	38,82	40,2	1,01
			LE07_L1TP_001072_20120627_20200908_02_T1	38,28	38,94	1,01
	Wet	October 1st	LE07_L1TP_001071_20121001_20200908_02_T1	68,43	60,04	1
			LE07_L1TP_001072_20121001_20200908_02_T1	66,36	59,29	1
2015	Dry	May 3rd	LE07_L1TP_001071_20150503_20200904_02_T1	43,17	47,6	1
			LE07_L1TP_001072_20150503_20200904_02_T1	42,36	46,39	1
	Wet	December 13th	LE07_L1TP_001071_20151213_20200903_02_T1	110	63,13	0,98
			LE07_L1TP_001072_20151213_20200903_02_T1	107,21	63,38	0,98
2018	Dry	August 31st	LE07_L1TP_001071_20180831_20200828_02_T1	52,41	51,73	1
			LE07_L1TP_001072_20180831_20200828_02_T1	51,23	50,67	1
	Wet	October 2nd	LE07_L1TP_001071_20181002_20200828_02_T1	68,32	60,62	1
			LE07_L1TP_001072_20181002_20200828_02_T1	66,2	59,87	1

Table S2. Mann-Kendall and Sen's slopes results for land cover classes

Land cover classes	Kendall's tau	<i>p</i> -value	Trend	Sen's slope
Water	-0,4	0,462	No trend	3,751
Built Up	1	0,027	<i>Increasing</i>	24,069
Vegetation	-0,6	0,2206	No trend	-7,598

Barren Land	-0,4	0,4624	No trend	-66,99
Shrubs/Grass	0,2	0,806	No trend	33,565
Snow Cover	0,2	0,806	No trend	1,82

Table S3. Extent of high NDVI, NDAVI, and SAVI areas in km² for the study period

		2006	2009	2012	2015	2018
NDVI	Dry	52,8	71,6	74,1	76,5	81,3
	Wet	57,2	64,1	66,7	78,9	83,2
NDAVI	Dry	60,9	75,4	76,1	78,9	82,1
	Wet	62,5	65,1	78,2	81,2	82,9
SAVI	Dry	47,2	52,5	54,0	56,6	58,7
	Wet	42,1	47,3	50,5	53,6	56,2

Table S4. Mann-Kendall and Sen's slopes results for SAVI, NDVI, and NDAVI

Indices	Kendall's tau	<i>p</i> -value	Trend	Sen's slope
NDVI Dry	1	0,02748	<i>Increasing</i>	4,19
NDVI Wet	1	0,02748	<i>Increasing</i>	6,69
NDAVI Dry	1	0,02748	<i>Increasing</i>	3,09
NDAVI Wet	1	0,02748	<i>Increasing</i>	5,516
SAVI Dry	1	0,02748	<i>Increasing</i>	2,467
SAVI Wet	1	0,02748	<i>Increasing</i>	3,192