I would like to clarify my original comment:

1) Taking the timing of de-/forestation as an example, if the change happened in the different years of the two periods of 2002–2004 (t1) and 2010–2014 (t2) (L277), changes in 2002 and 2010 would produce a larger temperature change compared to changes in 2004 and 2014, depending on whether the change signals lasted full three years or just the last year.

Here I provide an example to show the impact of the timing of the land cover change (figure attached).

Suppose LST for land type A is 10 and for land type B is 20. A land cover change happened in a year in the second period (2010-2014). When it happened in 2014 (the last year of period 2), the LST change between the mean LST of the two periods would be 2, and when it happened in 2010 (the first year of period 2), the LST change would be 10.

A	B	C	D	E	F	G	H	I	J	K	L
	2002	2003	2004	2010	2011	2012	2013	2014	mean_2002_2004	mean_2010_	LST_change
change in 2014	10	10	10	10	10	10	10	20	10	12	2
change in 2010	10	10	10	20	20	20	20	20	10	20	10

2) The comparison of methods for potential and actual impacts is based on scenario of afforestation, I wonder if the conclusions can be generalized to deforestation or other the land cover change impact?