Forest cooling is not natural-vegetation cooling: pair-specific and environmentally conditioned land-cover thermal contrasts across India

Jyoti Sharma[1] and Pankaj Kumar[1*]

[1]Indian Institute of Science Education and Research, Bhopal, Bhopal, India

*Corresponding Author Email ID: kumarp@iiserb.ac.in

Text S1. Formula to Calculate Number of Moving Windows

The number of windows in the zonal, N_x and meridional, N_y directions and the total number of windows, N_{total} were calculated as:

$$N_x = \frac{n_x - w_x}{step_x} + 1 \; ; \; N_y = \frac{n_y - w_y}{step_y} + 1; \; N_{total} = \; N_x \times N_y$$

where, $step_x = w_x - o_x$ and $step_y = w_y - o_y$

Here n_x and n_y represented the number of grid cells in the x- and y-directions, $w_x = 5$ and $w_y = \; 3$ denoted the window dimensions, and $o_x = 3$ and $o_y = 2$ are the overlaps. Accordingly, the step sizes were $\text{step}_x = 2$ and $\text{step}_y = 1$.