**Table S2** Vegetation indices calculated from Sentinel 2 imageries with relative formulas, native spatial resolution. ‘ρ NIR’ represents the near- infrared (0.84 μm) and ‘ρ red’ represents the red (0.66 μm) wavelengths respectively.

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| --- | --- | --- | --- |
| **Index**  | **Formula** | **Spatial resolution** | **Reference** |
| MSAVI2 |

|  |
| --- |
| $$\frac{2ρNIR+1-\sqrt{(2ρNIR+1)^{2}-8(ρNIR-ρred)}}{2}$$ |

 | 10 x 10m | Qi 1994 |
| NDVI | $$\frac{ρNIR-ρred}{ρNIR+ρred}$$

|  |
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|  |

 | 10 x 10m | Tucker 1979 |

**References of Table S2:**

Qi, J., Chehbouni, A., Huete, A.R., Kerr, Y.H., Sorooshian, S., 1994. A modified soil adjusted vegetation index. Remote Sens. Environ. 48, 119–126.

Tucker, C.J., 1979. Red and photographic infrared linear combinations for monitoring vegetation. Remote Sens. Environ. 8, 127–150.