Supplementary Figure S1: **Agreement between the air temperature pro-
posed in the present work with that of ERA5.** The index of agreement
(λ) proposed by Duveiller et al. (2016) is used to characterise the range between
no agreement ($\lambda = 0$) and total agreement ($\lambda = 1$) for the following subsets:
(**a**) time series for each spatial pixel, (**b**) all across space and time values falling
in a specific climate bin, and (**c**) a spatial values in a given time frame; thereby
illustrating respectively the agreement in time, in climate and in geographic
space.