



Supplement of

The representation of location by a regional climate model in complex terrain

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Figure S1: Location representativeness. Left: local representativeness, i.e., correlation between local (at the same grid box) simulated and observed seasonal mean time series. Center: non-local representativeness, i.e., correlation between observed seasonal mean time series and modelled time series at non-local grid box that maximizes correlation with observations. Right: improvement in correlation by using non-local series. Top: MAM; bottom: SON.



Figure S2: Left: direction of model grid box that maximizes correlation relative to local gridbox. Right: reduction in absolute trend bias by non-local approach; trends measured in percent per decade. Green: bias reduced; brown: bias increased. Areas where correlation does not improve by at least 0.2 are shown in white/grey. Top: MAM; bottom: SON.