Analog Methods and ERA5: Benefits and Pitfalls

Pascal Horton\*

It was recently shown that reanalyses have an impact on statistical downscaling methods that can be even larger than the choice of the predictor variables. This work proved ERA5 to be relevant when compared to other global reanalyses for the prediction of daily precipitation at 301 stations in Switzerland, using six variants of analog methods. However, its high spatial resolution did not contribute to a gain in skill and was even counterproductive for simple calibration techniques.

