Analog Methods and ERA5: Benefits and Pitfalls

Pascal Horton\*

Reanalysis datasets have an impact on statistical downscaling methods that may be even more important than the choice of the predictor variables. This work demonstrated the suitability of ERA5 over other global reanalyses for predicting 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.

