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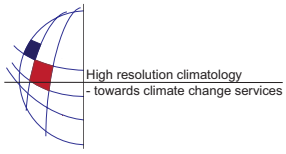

Filling gaps in hourly data – a crucial step for homogeneity in high temporal resolution

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Ensuring the homogeneity of daily data is a very complex task already, but what about hourly data? These data series are quite often riddled with gaps and it is of great importance to devise appropriate methods to fill these gaps. A method is presented which has been developed for applications in air quality. It makes use of spatial and temporal dependencies. The method is in operational use to test the quality and provide improved data, e.g., for surface ozone forecasting purposes.