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Downscaling Methodology To Produce A

This report introduces a Top Down emission inventory covering the EU28 domain developed with the goal of supporting integrated assessment modelling strategies (IAM) in the fields of regional air-quality, land use and territorial modelling. The high resolution JRC inventory is based on country total emission data derived from the Greenhouse Gas and Air Pollution Interactions and Synergies Model ...

Downscaling methodology to produce a high resolution ...

Downscaling methodology to produce a high resolution gridded emission inventory to support local/city level air quality policies ©EU. Abstract: This report aims to introduce a Top Down emission inventory covering the EU28 domain developed with the goal of supporting integrated assessment modelling strategies (IAM) in the fields of regional air ...

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Downscaling methodology to produce a high resolution gridded emission inventory to support local/city level air quality policies Technical Report (PDF Available) · January 2017 with 260 Reads

(PDF) Downscaling methodology to produce a high resolution ...

General steps Determine which time series you want to downscale and which climatology dataset you will downscale to. We downscale GCM... Calculate changes in the monthly time series (temperature or precipitation) in relation to the time series average... Interpolate those changes—also referred to as ...

Downscaling| SNAP

Downscaling methodology to produce a high resolution gridded emission inventory to support local/city level air quality policies. Trombetti M., Pisoni E., Lavalle C. 2017 EUR 28428 EN . This publication is a Technical report by the Joint Research Centre (JRC), the European Commission's science

Downscaling methodology to produce a high resolution ...

Statistical downscaling is a two-step process consisting of i) the development of statistical relationships between local climate variables (e.g., surface air temperature and precipitation) and large-scale predictors (e.g., pressure fields), and ii) the application of such relationships to the output of global climate model experiments to simulate local climate characteristics in the future.

What is downscaling? | GIS Climate Change Scenarios

Downscaling is the collective term for the methods used to regionalize information from global climate models and create fine-spatial-scale projections of climate change. Our group is active in

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the development, evaluation, and application of downscaling techniques. Until recently, there were two main types of downscaling methods: dynamical methods, which involve the use of high-resolution regional climate models, and statistical methods, which use mathematical relationships between local ...

Downscaling | Alex Hall's Research Group

In this paper, an SMAP SM downscaling method is proposed based on an RF algorithm, which uses high-resolution remote sensing data as input data and combines terrain information, and the SMAP SM L3 product is downscaled from the original 36 km to 1 km. The commonly used downscaling variables, including LST, NDVI, and EVI, are selected in this ...

A spatial downscaling method for SMAP soil moisture ...

The objective of spatial downscaling strategies is to increase the information content of coarse datasets at smaller scales. In the case of quantitative precipitation estimation (QPE) for hydrological applications, the goal is to close the scale gap between the spatial resolution of coarse datasets (e.g., gridded satellite precipitation products at resolution $L \times L$) and the high resolution (l ...

Using Fractal Downscaling of Satellite Precipitation ...

That report also portrayed “dynamical downscaling methods, which use both statistics and the physics of climate to produce regional climate-change projections, are a better alternative to purely statistical downscaling.” However, this sentiment may be due to a selective view based on a few unfortunate examples of downscaling.

Downscaling Climate Information - Oxford Research ...

Wilby and Wigley divided downscaling into four categories: regression methods, weather pattern-based approaches, stochastic weather generators, which are all statistical downscaling methods, and limited-area modeling (which corresponds to dynamical downscaling methods). Among these approaches regression methods are preferred because of its ease of implementation and low computation requirements.

Downscaling - Wikipedia

To improve the simulation accuracy of downscaling methods, the Bayesian Model Averaging (BMA) method combined with three statistical downscaling methods, which are support vector machine (SVM), BCC/RCG-Weather Generators (BCC/RCG-WG), and Statistics Downscaling Model (SDSM), is proposed in this study, based on the statistical relationship between the larger scale climate predictors and observed precipitation in upper Hanjiang River Basin (HRB).

Comparison of Three Statistical Downscaling Methods and ...

Statistical downscaling and dynamical downscaling are two approaches to generate high-resolution regional climate models based on the large-scale information from either reanalysis data or global climate models. In this study, these two downscaling methods are used to simulate the surface climate of China and compared.

Statistical downscaling and dynamical downscaling of ...

Statistical downscaling methods can produce similarly accurate outputs when compared to those by dynamical downscaling techniques (Le Roux et al., 2018). Hence, when it comes to downscaling workload at larger spatial scale such as continental and even global scale, statistical downscaling methods are preferred.

A new statistical downscaling approach for global ...

We assess four commonly used statistical downscaling methods: daily and monthly disaggregated-to-daily Bias Corrected Spatial Disaggregation (BCSDd, BCSDm), Asynchronous Regression (AR), and Bias Corrected Constructed Analog (BCCA) as applied to a continental-scale domain and a regional domain (BCCAr).

An intercomparison of statistical downscaling methods used ...

Method 1: Statistical Downscaling using Delta Addition The difference between present and future simulations are added to the present observation - See Plot 1 below. First, the mean difference between present simulation (green) and future simulation (red) is calculated.

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Statistical Downscaling | Regional Climate Model ...

Evaluate the suitability of various global climate models downscaling methods to produce future projections of precipitation; Develop a test to decide on the preferred procedure for a given type of study; Quantify the impact of each method on the Reclamation planning activities. The study and results are presented in the following documents:

A Comparison of Precipitation Downscaling Procedures to ...

This study employed the BP-CCA method to build the statistical downscaling model. It primarily includes two procedures: EOF analysis and CCA. Details can be found in the study by Jia et al. (2010). In the progress of EOF analysis, we reduce the dimensions of the X field (predictors) and Y field (station rainfall). It is worth noting that the optimal amount of PCs retained after EOF analysis is determined by the performance in cross validation during the training period.

Seasonal Forecast of Early Summer Rainfall at Stations in ...

Report Describing Data Processing Methodology. The third, full piecewise downscaling method was used to produce these data. Final Report Describing Data Processing and Quality Control; Rights: Freely Available.

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