Empirical-Statistical Downscaling in Climate Modeling

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Research into possible impacts of a climate change requires descriptions of local and regional climate. For instance, the local and regional aspect of a climate change is stressed in the U.S. Strategic Plan for the Climate Change Science Program (CCSP) (http://www.climate-science.gov/Library/stratplan/2008/default.htm). Global climate models (GCMs) are important tools for studying climate change and making projections for the future. Although GCMs provide realistic representations of large-scale aspects of climate, they generally do not give good descriptions of the local and regional scales. It is nevertheless possible to relate large-scale climatic features to smaller spatial scales.

There are two main approaches for deriving information on local or regional scales from the global climate scenarios generated by OCMs: (1) numerical downscaling (also known as 'dynamical downscaling') involving a nested regional climate model (RCM) or (2) empirical-statistical downscaling employing statistical relationships between the large-scale climatic state and local variations derived from historical data records.

The former approach is typically computer intensive (requiring a supercomputer) and involves substantial efforts in adapting RCMs. to the region of interest and the specific GCM. The latter method, on the other hand, can be done more inexpensively on a workstation or a personal computer Empirical-statistical downscaling receives little attention in the CCSP document, but because it is quick and inexpensive, it is an appropriate method for generating long time series and for exploring a range of different GCM results. For instance, empirical-statistical downscaling has successfully been applied to multimodel ensembles. consisting of different GCM scenarios from the Intergovernmental Panel on Climate Change (IPCC) in order to explore intermodel similarities and differences. The most severe limitation to empirical-statistical downscaling is the requirement that there be an adequate recordof past observations for the local parameter of interest, which limits the downscaling to locations where there are observations.

Software Tools:

There are several tools analiable on the Internet for empirical-statistical downscaling. These include SDSM (Statistical DownScaling Model) (breely available from https://co-public.Boso.ac.uk/cocwd/SDSM/) by Dasson and Wilby; and clim.pact (freely available from CRAN (Comprehensive R Archive Network) Web site: https://coan.epeoject.org for the R environment [Ellier, 2001]; R is a "GNU version of Splus").

Whereas SDSM is written for the Windows environment, R and clim, pact should be able to run on Linux and MacOS as well as on Windows platforms. The clim.pact package contains a bundle of Ritunctions for computing empirical orthogonal functions (EOPs), plotting climate data, and performing correlation and composite analysis in addition to empirical statistical downscaling. The clim.pact package is highly flexible, as it is possible for the user to supplement clim.pact functionalities with a large number of other functions from other contributed packages or functions written especially for a particular problem. It can analyze both daily and monthly data.

A range of predictors (independent variables) can easily be incorporated into the analysis if they are stored in the netCDF (http://www.unidata.ucar.edu/packages/netcdl/) format. These predictors can be gridded temperature from the University of East Anglia (http://www.cru.uea.ac.uk/cru/data/temperature/) or reanalysis by the U.S. National Weather Service's National Centers for Environmental Prediction (NCEP) (http://www.cru.uea.ag.w/). The local

variable, the predictand (dependent variable), mag for instance, be taken from NASA Goddard Institute of Space Studies Surface Temperature Analysis (http://www.giss.nasa.gos/data/opdate/ gistemp/).

Transient climate scenarios from GCMs can be downloaded from the BPCC Web site (http:// ipcc-ddc.cruusea.ac.uk/dlon/dlorg.index.html), and these can be converted to the netCDF format and used in the downscaling analysis. There are numerous ways of carrying out empirical-statistical downscaling in terms of different statistical models, such as linear modeling (regression, canonical correlation analysis, cr singular vectors), analog modeling, or neural nets At present, clim.pact incorposates both regression and analog models.

Choosing the Variable

In addition to the choice of statistical model, there are different options for the predictor. Which variable is most suitable for describing the large-scale climatic conditions that are relevant to the location in question? There may be substantial differences in local values derived from different large-scale variables [Floth, 2004]. Useful criteria include (1) large-scale parameters with a strong relationship with the prodictant that reflect a well-understood physical connection, (2) predictors that are skillfully predicted by GOMs, and (3) parameters that

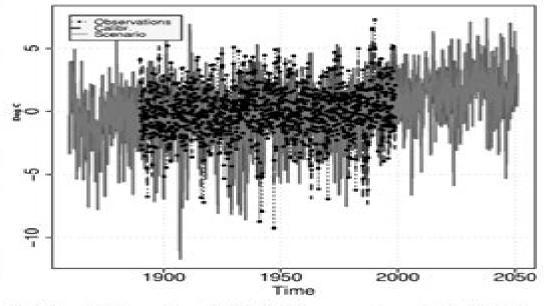


Fig. 1. Example of documented monthly 1890-1998 January mean temperature for Oxfo-Blindern diritived with alim pact. The example is based on the ECTAMH/OPTC3 model and the IPCC ISS2s-based GSDIO integration. (The GSDIO scenario includes the effects of greenhouse gases, tropospheric ozone, and direct plus indirect effects of industrial aerosols). The prodictor used for collibration was gridded temperature described by Benestad. [2001].

Empirical Statistical Downscaling

Lingjun Ying

Empirical Statistical Downscaling:

Decoding **Empirical Statistical Downscaling**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Empirical Statistical Downscaling**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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