



# US Army Corps of Engineers

Institute for Water Resources

BUILDING STRONG®

## Climate Change Downscaling Projections (2010)

**Status:**            **Project Manager:**

In Progress        [Rolf Olsen](#)

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**Purpose:**            The goal of this project is to produce fine-resolution projections of future climate change that will be freely distributed to researchers, decision-makers, and members of the public who need quantitative information about future climate change in the U.S.

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**Objective:**        1. Perform spatial downscaling of projections of future global climate for the US domain including daily minimum temperature, daily maximum temperature, daily mean temperature, and precipitation, using two empirical downscaling techniques (Bias Correction/Spatial Downscaling (BCSD) and Bias-Corrected/Constructed Analogs (BCCA)).

2. To investigate the effects of bias correction based on producing and archiving the following intermediate data sets: (i) GCM monthly projections regridded to a common 2° grid, (ii) Bias-corrected GCM monthly projections (on the 2° grid), (iii) Spatially downscaled (but not bias-corrected) monthly climate projections.

3. Document methodologies and results.

4. Make resulting library of downscaled projections and associated documentation accessible to the USACE and a broader range of potential users via a web-based interface.

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**Benefits:**

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**Progress:**

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