Data sources and data available

The ESGF (Earth System Grid Federation) node hosted by LLNL (Lawrence Livermore National Laboratory) used for this study. ESGF is a global collaboration that provides access to a vast amount of climate and Earth system model data.

LLNL is involved in CORDEX, a global initiative improving regional climate understanding. This provides vital, detailed climate data for scientists, policymakers, and researchers to assess impacts and plan adaptations.

<https://esgf-node.llnl.gov/projects/esgf-llnl/>

The downloaded data are interpolated to point data using bilinear interpolation technique. The Climate Data Operator (CDO) is a powerful suite of command-line tools for manipulating and analyzing climate data. It provides a wide range of functionalities, including interpolation, data extraction, statistical analysis, and more.