Data and Products Thu Mar 28 19:16:11 HST 2024

| Name | Statistical Methods for the Analysis of Simulated and Observed Climate Data |
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| Capability Area | - Understanding Climate Variability and Change<br>- Understanding Climate Impacts and Informing Adaptation |
| Regions | - Global |
| Data/Physical | - Data - Physical<br>- In-situ Observations<br>- Satellite-Remote Observations<br>- Model Results<br>- Reanalysis Products<br>- Atmospheric (e.g., Air Temperature, Rainfall, Wind Speed and Direction)<br>- Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)<br>- Terrestrial (e.g., Groundwater, Soil Moisture) |

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| Products/Physical | - Products - Physical<br>- Outloooks (monthly to annual)<br>- Impacts<br>- Drought<br>- Flooding/Inundation<br>- Eroison<br>- Bleaching<br>- Spatial Scale<br>- Region/Nation<br>- Location/Site<br>- Time Scale<br>- Future<br>- Methodology<br>- Obs/In-situ<br>- Obs/Remote<br>- Model/Statistical<br>- Model/Dynamical<br>- Projections (intrannual to multi-decadal)<br>- Guidance, including “Best Practices” Manuals, Toolkits, and Guides<br>- Atmospheric (e.g., Air Temperature, Rainfall, Wind Speed and Direction)<br>- Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)<br>- Terrestrial (e.g., Groundwater, Soil Moisture) |
| Description | In December 2010, a workshop was held at the Climate Service Center (CSC) in cooperation with the research priority KLIMZUG (Managing climate change in regions for the future). The workshop was initiated by CSC and focused on "Statistical methods for the analysis of data from climate models and climate impact models". The presentations showed the variety of issues and methods associated with climate research and climate impact research. There was an agreement that the structured, organized collection of statistical methods would be useful for both current projects as well as for future projects dealing with climate change adaptation. The collection of statistical methods is being realized in this brochure by the working group statistic at the CSC. The brochure is addressed to different users of from climate and impact model data as well as observational data who need help in finding suitable methods for their data evaluation. The brochure is not a textbook, which teaches the fundamental concepts of statistics. It rather complements the existing literature and gives suggestions on how practical issues can be solved. The described methods additionally contain information about the authors of the respective method sheet, to give an opportunity for further inquiries. |
| Url | http://www.climate-service-center.de/imperia/md/content/csc/projekte/csc-report13_englisch_final-mit_umschlag.pdf |

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