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Variability of rainfall on the other hand is the degree to which rainfall amounts vary across an area or through time. Variability of rainfall can be used to characterize the climate of a region. Rainfall in Nigeria is subjected to wide variability both in time and space.

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Understanding rainfall spatial variability in southeast USA at different timescales daily rainfall events and daily amounts over this region, (2) to determine how these correlations vary during the year, and (3) to compare spatial correlations at daily and monthly timescales

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River Basin University,
Tallahassee, Florida, USA Abstract

This review examines several
aspects of the climate of eastern
Africa. The climatic commonality
throughout the region is the
frequent occurrence of drought
severe enough to

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daily rainfall variability over the
South American=South Atlantic
region (15 -60 Wand 0 -40 S)
during individual austral summer
months of November to March.
From EOF analysis of satellite
derived daily rainfall we find that

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the leading mode of variability is represented by a highly coherent meridional dipole structure, organised into 2

Characteristics of summertime daily rainfall variability ... understanding daily rainfall variability over tekeze river basin in your all right and user-friendly gadget. This condition will suppose you too often door in the spare epoch more than chatting or gossiping. It will not create you have bad habit, but it will guide you to have augmented infatuation to edit book.
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The spatial variability of rainfall
was estimated using a coefficient
of variation (CV) over the IGB . CV
is calculated by the standard

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deviation divided by the mean annual of rainfall over the study period. It represents a least in the region of high rainfall, whereas the largest in the region of scanty rainfall.

Rainfall variability over the Indus, Ganga, and ...

This study examined the extent of seasonal rainfall variability, drought occurrence, and the efficacy of interpolation techniques in eastern Kenya. Analyses of rainfall variability utilized rainfall anomaly index, coefficients of variance, and probability analyses. Spline, Kriging, and inverse distance weighting interpolation techniques were assessed using daily rainfall data and digital

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Tekeze River Basin Rainfall Variability, Drought Characterization, and ...

The rainfall variability and trends over North Shewa investigated using gauge as well as gridded rainfall data from 1985 to 2018. The variability of rainfall in both annual and seasonal scales were evaluated using coefficient of variation (CV), standardized rainfall anomaly, precipitation concentration index (PCI), and standardized precipitation index.

Rainfall Variability and Trends over Central Ethiopia
Understanding rainfall spatial variability in southeast USA at different timescales ... daily rainfall events and daily amounts

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over this region, (2) to determine how these correlations vary during the year, and (3) to compare spatial correlations at daily and monthly timescales.

Understanding rainfall spatial variability in southeast ...
Our understanding of what controls rainfall variability and change is worryingly poor. Research in the group aims to provide a more solid understanding of climate processes in key rainfall regions such as southern Africa, central Africa/Congo Basin, East Africa and the Sahel. We are also strongly motivated by analysing how the climate system is represented in climate models because these are the prime tools

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variability using available
precipitation data sets and identified large uncertainties among these data sets (Malhi and Wright 2004; Samba et al. 2008; Diem et al. 2014; Zhou

Assessing reanalysis data for understanding rainfall ...
Analysis of Rainfall and Temperature Variability Over Nigeria . By Akinsanola A. A & Ogunjobi K. O. Federal University of Technology, Nigeria. Abstract- This study investigates rainfall and temperature variabilities in Nigeria using observations of air temperature (C) and rainfall (mm) from 25 synoptic stations from 1971o -2000 (30years).

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displays the average seasonal
rainfall over figure, it can be seen
that the north and northwestern
regions such as Solwezi and
Kasama tend to receive more
rainfall compared to other regions
of the...

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In a largely rain fed agriculture country like Ethiopia, understanding the spatial and temporal variability of rainfall provides an understanding to improving rainfall water productivity and operational water managements of reservoirs. This book describes the methods with their application on quantifying the spatial and temporal variability of daily rainfall at Tekeze river basin, Ethiopia. We hope this book greatly adds perspective to researchers and planners working in the areas of agriculture, water resources management and civil engineering.

This study provides a hydrology based assessment of (surface)

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water resources and its continuum of variability and change at different spatio-temporal scales in the semi-arid Karkheh Basin, Iran, where water is scarce, competition among users is high and massive water resources development is under way. The study reveals that the ongoing allocation planning is not sustainable and essentially requires reformulation, with consideration of spatio-temporal variability and observed trends in the streamflows regarding flood intensification and decline in low flows. The development of innovative methods for quantification of the hydrological fluxes (i.e., regionalization of model parameters based on similarity of the flow duration

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curve and the use of areal precipitation input in the hydrological modeling) helped better understanding and modeling the basin hydrology. The investigation of scenarios for upgrading rain-fed areas to irrigated agriculture, using SWAT, recommends the promotion of in-situ soil and water conservation techniques. Conversion of rain-fed areas to irrigation causes significant reduction in the downstream flows, and requires additional considerations such as less development in the upper catchments, practicing supplementary irrigation and developing water storage. The knowledge generated is instructive for hydrological assessment and its use in water

Where To Download Understanding Daily Rainfall Variability and management in the river basin context.

Climate can be defined as an ensemble of many weather phenomena. Climatologists often use the mean (conventionally the monthly and annual mean) of weather-related parameters to describe climate. The mean value, however, is not all the climate. Climatic changes might occur if certain aspects of the distribution of extreme values change, while the mean does not. Katz and Brown (1992), for example, show from a theoretical viewpoint that in a changing climate, extreme values are determined more by changes in variability than changes in the

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mean. Possible changes in extreme event frequency receive considerable attention along with the global warming, because extremes directly impact human society and the economy. For most societally sensitive extremes and related changes in their variability, an analysis based on daily data becomes necessary. This paper considers two aspects (relative and absolute values) of extreme temperatures on a daily basis. We do not consider spells of extreme days, periods which will likely have greater socio-economic and health impacts (Kalkstein et al., 1996; Wagner, 1999), than individual extreme days.

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South America is a unique place where a number of past climate archives are available from tropical to high latitude regions. It thus offers a unique opportunity to explore past climate variability along a latitudinal transect from the Equator to Polar regions and to study climate teleconnections. Most climate records from tropical and subtropical South America for the past 20,000 years have been interpreted as local responses to shift in the mean position and intensity of the InterTropical Convergence Zone due to tropical and extratropical forcings or to changes in the South American Summer Monsoon. Further South, the role of the Southern Hemisphere westerly winds on

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Global climate has been highly investigated with both paleodata and coupled climate models. However the regional response over South America during the last 20,000 years is much more variable from place to place than previously thought. The factors that govern the spatial patterns of variability on millennial scale resolution are still to be understood. The question of past natural rates and ranges of climate conditions over South America is therefore of special relevance in this context since today millions of people live under climates where any changes in monsoon rainfall can lead to catastrophic consequences.

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Fourth international conference
on FRIEND, Cape Town, March
2002.

Classifications of circulation weather systems have a long history in meteorology and climatology. Starting with manual classifications over specific regions of the globe, these tools (generally called “catalogs of synoptic types”) were restricted mainly to weather forecasting and historical climate variability studies. In the last decades, the advance of computing resources and the availability of datasets have fostered the development of fast and objective methods that process large amount of data. In recent years numerous methods of circulation type classification

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have been designed, showing their usefulness on a wide range of applications in scientific domains related to weather, climate, and environment. This Research Topic highlights methodological advances in circulation weather types and also their applications to different research areas. The articles included in this research topic show that circulation weather types can be used not only in Europe, where they have been always more frequent, but also applied to other regions of the world.

Extreme Hydrology and Climate
Variability: Monitoring, Modelling,

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Adaptation and Mitigation Over a compilation of contributions by experts from around the world who discuss extreme hydrology topics, from monitoring, to modeling and management. With extreme climatic and hydrologic events becoming so frequent, this book is a critical source, adding knowledge to the science of extreme hydrology. Topics covered include hydrometeorology monitoring, climate variability and trends, hydrological variability and trends, landscape dynamics, droughts, flood processes, and extreme events management, adaptation and mitigation. Each of the book's chapters provide background and theoretical foundations followed by

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approaches used and results of the applied studies. This book will be highly used by water resource managers and extreme event researchers who are interested in understanding the processes and teleconnectivity of large-scale climate dynamics and extreme events, predictability, simulation and intervention measures. Presents datasets used and methods followed to support the findings included, allowing readers to follow these steps in their own research Provides variable methodological approaches, thus giving the reader multiple hydrological modeling information to use in their work Includes a variety of case studies, thus making the context of the book relatable to

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everyday working situations for those studying extreme hydrology Discusses extreme event management, including adaption and mitigation

The objective of the book is to make a comprehensive documentation of the observed variability and change of the regional climate system over the Indian region using the past observed data. The book addresses all the important parameters of regional climate system so that a physically consistent view of the changes of the climate system is documented. The book contains 16 chapters written by the subject experts from different academic and research institutes

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in India. The book addresses all important components/parameters of the climate system, like rainfall, temperature, humidity, clouds, moisture, sea surface temperature and ocean heat content, sea level, glaciers and snow cover, tropical cyclones and monsoon depressions, extreme rainfall and rainstorms, heat waves and cold waves, meteorological droughts, aerosols, atmospheric aerosols, ozone and trace gases and atmospheric radiative fluxes. One chapter deals with the past monsoon using monsoon proxy data. The last chapter deals with the future climate change projections over the Indian region (rainfall and temperature) made

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Rainfall variability Over
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using coupled climate models.

Most of the analyses (especially on rainfall, temperature, extreme rainfall, sea surface temperature, meteorological droughts) are based on the data for a longer period of 110 years, 1901–2010. For some other parameters like moisture, clouds, heat waves and cold waves, atmospheric aerosols, ozone and trace gases and radiative fluxes, data of shorter period have been used. The articles documented inter-annual and decadal variability in addition to documenting long term trends of different parameters. The trends have been tested for statistical significance using standard techniques. It is expected that the present book will be an excellent reference

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material for researchers as well as for policy makers. These results will be useful in interpreting future climate change scenarios over the region being projected using coupled climate models. Further analysis of these results is required for attributing the observed variability and change to natural and anthropogenic activities.

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