Bias Correction Of Satellite Rainfall Estimation

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Complex networks reveal global pattern of extreme-rainfall ...
Founded on 10 October 1924, the Chinese Meteorological Society (CMS) is one of the earliest associations of natural science professionals in China, seeking to promote meteorological observation, research, and development. The CMS's official journal—Acta Meteorologica Sinica (ACTA) started its first issue in July 1925 and its English Edition (ACTA-English) in September 1987.

Accounting for satellite rainfall uncertainty in rainfall ...
Hourly precipitation estimates from WSR-88D NEXRAD are compared to ground rainfall gauge reports, and a bias (correction factor) is calculated and applied to the radar field. The radar and gauge fields are combined into a "multisensor field", which is quality controlled on an hourly basis.

Dual-Pol Products
We employ the gauge-calibrated, satellite-derived rainfall dataset of TRMM 3B42 V7 31, with daily temporal resolution, provided on a 0.25° × 0.25° spatial grid ranging from 50° N to 50° S ...

JRA-55 | NCAR - Climate Data Guide
1. Introduction. Flooding affects more people than any other environmental hazard and a fraction of the global population is at risk as floods are growing (Jongman, 2021, Tellman et al., 2021).Urbanization has changed the natural path of water flow and exacerbated the impact of rainfall and flooding (Wang et al., 2019, Zhang et al., 2018).Due to a large number of people and industries in urban ...

ACP - The spatiotemporal relationship between PM2.5 and ...
The Comprehensive Large Array-data Stewardship System (CLASS) is an electronic library of NOAA environmental data. This web site provides capabilities for finding and obtaining those data.

Global Historical Climatology Network monthly (GHCNm ...
This report is an authoritative assessment of the science of climate change, with a focus on the United States. It represents the second of two volumes of the Fourth National Climate Assessment, mandated by the Global Change Research Act of 1990.

Journal of Meteorological Research
Rainfall estimation using thermal infrared imagery. Gauge-based assessment of satellite and reanalysis P datasets. Global maps of weights and wet-day biases. Determination of long-term mean P. P frequency correction and dataset harmonization. Reference P distributions. Merging of satellite and reanalysis P datasets. Gauge correction scheme.

130 questions with answers in HEC-HMS | Science topic
Satellite aerosol retrievals have been a popular alternative to monitoring the surface-based PM 2.5 concentration due to their extensive spatial and temporal coverage. Satellite-derived PM 2.5 estimations strongly rely on an accurate representation of the relationship between ground-level PM 2.5 and satellite aerosol optical depth (AOD). Due to the limitations of satellite AOD data, most ...

NCAR Climate Data Guide Content with Tag: netCDF
For the meteorlogic mode, I plan to use Gage Weights method to distribute the rainfall. However, on the west side of the basin I don't get rainfall record at all.

Bias Correction Of Satellite Rainfall
We use a subset of 466 rainfall-triggered landslides in the period from June 2014 to December 2018 for the construction of rainfall thresholds (white dots in Fig. 1).This period is selected according to the availability of landslide records and rainfall information from rain gauges and satellite estimates.

Our Changing Climate - Fourth National Climate Assessment
Data from rain gauge stations, satellites, and sounding observations have been merged to estimate monthly rainfall on a 2.5-degree global grid from 1979 to the present. The careful combination of satellite-based rainfall estimates provides the most complete analysis of rainfall available to date...

Process-oriented SWMM real-time correction and urban flood ...
A bias is never applied to this product to attempt to improve it. This product is comparable to the OHA, which does provide bias

correction. Uses: This product is intended to provide useful precipitation accumulation information and to help forecasters monitor for potential flash flooding. Because no bias is applied, it provides an idea of the ...

HESS - Rainfall–runoff modelling using Long Short-Term ...
The Global Historical Climatology Network monthly (GHCNm) dataset provides monthly climate summaries from thousands of weather stations around the world. The initial version was developed in the early 1990s, and subsequent iterations were released in 1997, 2011, and most recently in 2018. The period of record for each summary varies by station, with the earliest observations dating to the 18th ...

ESSD - A fine-resolution soil moisture dataset for China ...
The exception here is AMSU-A channel 14 for which no bias correction is applied, in order to anchor the temperature analysis in the upper stratosphere. Similar bias models are used for the other radiance datasets described below in Sections 5.4.3,5.5.1, 5.4.3,5.5.1 and 5.5.2. 5.4.2 All-sky assimilation of humidity sounder radiances

Forests | Free Full-Text | Evaluation of Six Satellite ...
Abstract. Soil moisture is an important parameter required for agricultural drought monitoring and climate change models. Passive microwave remote sensing technology has become an important means to quickly obtain soil moisture across large areas, but the coarse spatial resolution of microwave data imposes great limitations on the application of these data.

AHPS Precipitation Analysis - Water
In JRA-55, bias correction is applied to radiosonde temperatures and satellite radiances. Further details are provided in S. Kobayashi et al. (2015) Subsection 2.2.a for radiosonde temperatures and Subsection 3.1.a for satellite radiances. General guidance on processing and interpreting the data

NOAA's Comprehensive Large Array-data Stewardship System
Satellite remote sensing can obtain continuous spatial surface information in very short period and has played an increasingly important role in LE estimation at the regional scale [8,11,12].In recent decades, with the development of satellite remote sensing technique for monitoring surface LE-related variables, there are many satellite-based LE models available including empirical regression ...

Satellite imaging reveals increased proportion of ...
ZHANQING LI Professor. Department of Atmospheric & Oceanic Science & Earth System Science Interdisciplinary Center 5825 University Research Court, Ste. 4001, College Park, MD 20740-3823

The ERA5 global reanalysis - Hersbach - 2020 - Quarterly ...
Satellite imagery for the period 2000–2018 reveals that population growth was greater in flood-prone regions than elsewhere, thus exposing a greater proportion of the population to floods.

MSWEP V2 Global 3-Hourly 0.1° Precipitation: Methodology ...
Abstract. Rainfall–runoff modelling is one of the key challenges in the field of hydrology. Various approaches exist, ranging from physically based over conceptual to fully data-driven models. In this paper, we propose a novel data-driven approach, using the Long Short-Term Memory (LSTM) network, a special type of recurrent neural network.

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