

Climatological probabilities of precipitation for the conterminous United States

Systems Development Office Techniques Development Laboratory - Intercomparison of Daily Precipitation Statistics over the United States in Observations and in NCEP Reanalysis Products in: *Journal of Climate* Volume 23 Issue 17 (2010)



Description: -

- Rain and rainfall -- Charts, diagrams, etc
- Rain and rainfall -- United States Climatological probabilities of precipitation for the conterminous United States
- Technical report (United States Environmental Science Services Administration) -- WB-5.
- ESSA technical report -- WB-5 Climatological probabilities of precipitation for the conterminous United States
- Notes: Bibliography: p. 10-11
- This edition was published in 1967



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Tags: #Analysis #of #Diurnal #Patterns #in #Winter #Precipitation #across #the #Conterminous #United #States, #Monthly #Weather #Review

Probabilistic Forecast Calibration Using ECMWF and GFS Ensemble Reforecasts. Part II: Precipitation, Monthly Weather Review

PRISM normals are baseline datasets describing average monthly and annual conditions over the most recent three full decades Daly et al. Despite a potential observation bias in the 24th hour, a general tendency for winter precipitation events was found to occur more frequently near sunrise than for any other time of the day. Title Year Comments 1 10-year Normals of Pressure Tendencies and Hourly Station Pressures for the United States.

Physiographically sensitive mapping of climatological temperature and precipitation across the conterminous United States

For reference, the average observed number of wet days per season was shown in. These QPFs can also be produced for snowfall amounts by converting the anticipated precipitation from liquid to the snow equivalent, using the appropriate snow to water ratio, such as 10 inches snow for 1 inch water.

Comparison of Daily Precipitation Statistics for the United States in Observations and in the NCEP Climate Forecast System in: *Journal of Climate* Volume 21 Issue 22 (2008)

While it has been demonstrated that models are able to provide robust estimates of the magnitude and directional shift in climate change, limited information is available quantifying the model uncertainties in simulating climate variability. Thunderstorms maximize in the summer in most areas and produce 72% of the total summer rainfall that occurs east of the Rocky Mountains. This practice ensures that the resulting gauge analysis represents the mean precipitation averaged over the spatial scale of the model grid system with the minimum possible smoothing.

South Florida Climatological Pops

Because the comparisons of the observations and simulations are not exact in a temporal sense, we use a longer period of record for the

observations 1948—2006 in the comparisons of and. In both a and b results are shown for top to bottom JFM, AMJ, JAS, and OND. Storms East of the Continental Divide 1949 Analysis of Winds over Lake Okeechobee during Tropical Storm of August 26-27, 1949 1951 Estimate of Maximum Possible Precipitation.

USGS Scientific Investigations Map 3084: Terrestrial Ecosystems—Isobioclimates of the Conterminous United States

Results are shown for R1 orange dashed line , CFSR orange solid line , OI T62 black dashed line and OI T382 black solid line. Precipitation becomes less predictable as high as 3% reduction in Florida and the Central US, and becomes more predictable in sporadic locations of the West as high as 3% increase.

South Florida Climatological Pops

For the conterminous United States as a whole, the probability ratios are lowest during the spring and summer months, and the largest underestimates are in the west. In some regions and in some seasons the free run statistics are closest to the day 10 or day 100 reforecast statistics, indicating possible spinup effects within the first 10 days or so.

Terrestrial ecosystems

Manual QC by PRISM analysts also takes place during these monthly updates.

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