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Researchers compiled 20th century temperature data in		S i m i l a r climatic, climatology, Spain, temperature LATEST MOST POPULAR ARCHIVE
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This research work is the first step to confirm the existence of a temperature change. Their main goal has been 'to detect the signs of the Climatic Change through the temperatures in Spain,' explained to SINC the researcher of the department of Applied Physics of the University of Granada and main author, Matthias Staudt.		Physicists discover a new form of optical nonlinearity Sigma Designs and Microsoft collaborate on advanced IPTV system-on-a-chip ProTon Europe to be chaired by Dr Pat Frain <u>More recent stories</u> Ancient sea reptile named for Calgary scientist after being unearthed at Syncrude mine NASA satellite detects powerful stellar explosion First organic molecule on extrasolar planet discovered with Hubble Two new planets discovered in a faraway solar system Earth's ecosystem has been complex for hundreds of millions of years Dramatic developments at Kilauea Volcano in Hawaii The missing link between whales and their four-footed ancestors discovered Strong as steel, transparent, but it is plastic Cassini finds an underground ocean on Titan Mystery behind how nuclear membrane
The compilation of maximum and minimum temperature series of every month since the end of the 19th century until the beginning of the 21st century has not always been an easy task. The data, which have been collected in 45 Spanish observatories, were not 'homogeneous' in every case. In climatology, a series of data (temporary series) is considered as homogeneous when its content reflects exclusively the climatic evolution (this is, when the different indexed factors are absent). Therefore, the researchers' work has mainly consisted in removing inhomogeneous 'pollution' in data.		
According to the scientist, analysing the quality of the data - which were published in November in the International Journal of Climatology - becomes, the 'best method to believe in the final results.' Technical preparation is essential to take the second step and do research into the rise of temperature at an unquestionable statistical level,' he added.		
Changing a thermometer which has been calibrated in a different way is one of the factors why temperature data usually present incoherencies. In addition, the different reading interpretations of a human being or the frequent location changes of the observatories (changes from a urban environment to an airport, altitude changes, etc.) are problems with which the scientific team has had to deal with.'		
Moving a thermometer without recording this fact gives rise to a very strange result which can not be explained 50 years later,' explained Staudt. Besides this, there are human typographical errors which present 'non-homogeneous' data.		
Scientists have been working for five years to find out, evaluate and repair the d make them as reliable as possible without converting them into a pretext for thos existence of the Climatic Change,' explained the researcher. Although he admits absolute conclusions, he has managed to establish a 'normality' criterion in the temperatures. 'With a high level of probability, a qualitative decrease of seven do is not normal, as there should be a rise in any case,' he said.	e reluctant to admit the that he has not obtained ehaviour of	forms during mitosis solved NIST building safety efforts mark fifth anniversary of RI nightclub fire Humans inhabited New World's doorstep for 20,000 years Odyssey orbiter has found evidence of salt deposits on Mars
Due to the homogeneisation problems specified in the analysed monthly series, themselves a very strict 'detection of un-homogeneities' criterion. Despite this, th temperature measurement is in the order of 0.1 C, and the error of a difference the treated with the homogeneisation method, rises to the order of 0.4 C. This error anyway it is 'considerably smaller than the gross data.'	e instrumental error in a petween data, previously	Fossil sea scorpion was bigger than man Remnant of the first European discovered in Spain Gulf Stream leaves its mark seven miles high
To come to conclusions that confirm climatic change in Spain, at a high level of reliability, this technical work involves a 'necessary and obvious effort.' Staudt said that 'the results obtained about the Climatic Change are not new, but they will confirm what we (almost) already knew.'		2007 <u>II III IV V VI VII VIII IX X XI XII</u> 2008
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