























				e ter	nper	ature	erec	JIUS
Dat	a series	CRU	198	M99	B00	F02	M03	M05
Sam	ple size	150	992	981	994	1162	581	1979
Estimate dev	ed standard viation	0.27	0.23	0.13	0.14	0.14	0.17	0.22
H1	oy R/S	1.07	0.90	0.89	0.89	0.93	0.97	0.92
Нb	y ASD	0.93	0.88	0.91	0.91	0.94	0.92	0.94
	ρ	0.84	0.53	0.65	0.64	0.81	0.66	0.91



	irend test statistic
Ribsk rend:	y et al. (2006) proposed to use the following statistic for detecting the presence of
$D_{l,n}^i$	$=\mu_n^i-\mu_n^{i-l}$
C A C C	ompute the mean of a sub-sample of size <i>n</i> starting from time <i>i</i> . t time <i>i</i> - <i>l</i> , repeat the same computation. ompute the difference between the two computed means. ompare the computed statistic with a confidence interval of the zero value.
	Standard deviation of the test statistic
$\sigma(L)$	$ P_{l,n}^{i} = \sqrt{2}\sigma(\mu_n)\sqrt{1-\rho_{l/n}^{n}} $
$\rho^n_{l/n}$ i	s the correlation coefficient of μ_n , i.e. the process X averaged at scale n, at lag l/n , which can be theoretically estimated from the autocorrelation function at scale 1







http://www.costruzioni-idrauliche.ing.unibo.it/people/alberto

More information in

Koutsoyiannis, D. & Montanari, A.: Statistical Analysis of Hydroclimatic Time Series: Uncertainty and Insights, *Water Resources Research*, 43(5), W05429.1-9, 2007.

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