

Recent changes in rainfall and air temperature at Agnone (Molise - Central Italy)

M. Izzo, P. P. C. Aucelli, A. Mazzarella

Abstract

An exhaustive daily rainfall and extreme air temperature series (1883-2000) was reconstructed for Agnone, a small town in Molise (Central Italy). Long-term analysis identified an increasing trend of $1.3 \pm 0.4^\circ\text{C}$ per 100 years, statistically confident at the 95% level, only for minimum air temperature, and of a seasonal march, reasonably stationary along the entire investigated interval, explaining more than 50% of the corresponding monthly variance, with maxima in November and July for rainfall and air temperature, respectively. Daily clustering analysis evidenced scale-invariant properties, largely dependent on the threshold value, for all the investigated parameters.

Keywords

Molise Region; climatic change; long term instrumental series; fractal analysis; the Cantor dust method

Full Text:

PDF

References

DOI: <https://doi.org/10.4401/ag-3368>

Published by INGV, Istituto Nazionale di Geofisica e Vulcanologia - ISSN: 2037-416X

USER

Username
 Password
 Remember me

MOST VIEWED

- OPERATIONAL EARTHQUAKE FORECASTING....
- ObsPy – What can it do for data...
- Twitter earthquake detection:...
- Magnitude and energy of earthquakes
- Comparison between low-cost and...

AUTHOR GUIDELINES





EARLY PAPERS

- ▶ Vol 61, 2018

FAST TRACKS

- ▶ Vol 56, Fast Track 1, 2013
- ▶ Vol 57, Fast Track 2, 2014
- ▶ Vol 58, Fast Track 3, 2015
- ▶ Vol 59, Fast Track 4, 2016
- ▶ Vol 59, Fast Track 5, 2016
- ▶ Vol 60, Fast Track 6, 2017
- ▶ Vol 60, Fast Track 7, 2017
- ▶ Vol 61, Fast Track 8, 2018

ARTICLE TOOLS

-  Indexing metadata
-  How to cite item
-  Email this article (Login required)
-  Email the author (Login required)

ABOUT THE AUTHORS

Università degli Studi del Molise, Isernia, Italy

P. P. C. Aucelli
Dipartimento di Scienze e Tecnologie per l'Ambiente e il Territorio, Università degli Studi del Molise, Isernia, Italy

A. Mazzarella
Dipartimento di Geofisica e Vulcanologia, Università degli Studi di Napoli «Federico II», Napoli, Italy

JOURNAL CONTENT

Search

Search Scope

Browse

- [By Issue](#)
- [By Author](#)
- [By Title](#)

Journal Help

KEYWORDS

Central Italy
 Earthquake GPS
 Historical seismology
 Ionosphere
 Irpinia earthquake
 Italy Mt. Etna
 Seismic hazard assessment
 Seismology UN/IDNDR
 earthquake
 earthquakes
 historical earthquakes
 ionosphere magnetic anomalies
 paleoseismology
 seismic hazard
 seismicity
 seismology

NOTIFICATIONS

- [View](#)
- [Subscribe](#)

USAGE STATISTICS INFORMATION

We log anonymous usage statistics. Please read the privacy information for details.