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VOLCANIC HAZARDS AND THEIR MITIGATION: PROGRESS AND PROBLEMS

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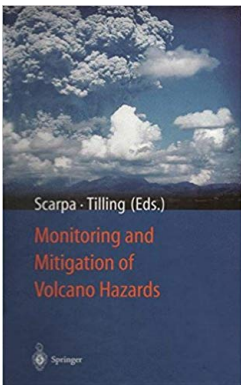
Abstract: In the beginning of the 21st century, volcanic hazards have become a global concern. The increasing frequency and intensity of volcanic eruptions, coupled with the growing population in volcanic hazard zones, has led to a significant increase in the number of people affected by volcanic hazards. This book provides a comprehensive overview of the current state of volcanic hazard mitigation, including the progress made in the past few decades and the challenges that remain. The book is divided into two main parts: the first part discusses the progress made in the past few decades, and the second part discusses the challenges that remain. The book is written for a general audience, including scientists, policymakers, and the public. It is a valuable resource for anyone interested in volcanic hazards and their mitigation.

Introduction and Historical Perspective: Volcanic hazards have been a part of human history for thousands of years. The first recorded volcanic eruption was the eruption of Mount Vesuvius in 79 AD. Since then, there have been many other major volcanic eruptions, including the eruption of Mount St. Helens in 1980 and the eruption of Mount Pinatubo in 1991. In the past few decades, there has been a significant increase in the number of people affected by volcanic hazards. This is due to a combination of factors, including the increasing frequency and intensity of volcanic eruptions, and the growing population in volcanic hazard zones. This book provides a comprehensive overview of the current state of volcanic hazard mitigation, including the progress made in the past few decades and the challenges that remain.

Journal of Geophysical Research, 117, F02001, doi:10.1029/2011JF001688, 2012

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Abstract: The joint analysis of teleseismic and seismic signals by cross-wavelet transform detection of ML Etna explosive activity. This study presents a new method for detecting explosive activity at Mount Etna by analyzing teleseismic and seismic signals. The method is based on the cross-wavelet transform, which allows for the detection of changes in the phase and amplitude of seismic signals. The results show that the method is highly sensitive to explosive activity, and can detect activity that is not detectable by traditional methods. This method is a valuable tool for monitoring volcanic activity, and can be applied to other volcanoes.

Journal of Geophysical Research, 117, F02001, doi:10.1029/2011JF001688, 2012

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Long-term volcanic hazard assessment on El Hierro (Canary Islands)

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Abstract We have performed a long-term volcanic hazard assessment on El Hierro (Canary Islands) based on a retrospective study of the volcanic activity from 1970 to 2012. We have used a methodology based on the analysis of the volcanic activity, the volcanic hazard, and the volcanic risk. The volcanic hazard is defined as the probability of occurrence of a volcanic event of a certain magnitude and type within a given time interval. The volcanic risk is defined as the probability of occurrence of a volcanic event of a certain magnitude and type within a given time interval, taking into account the population and the infrastructure exposed to the volcanic activity. The results of the assessment show that the volcanic hazard is high, and the volcanic risk is very high. This is due to the high volcanic activity, the high population, and the high infrastructure exposed to the volcanic activity. The assessment also shows that the volcanic hazard is increasing, and the volcanic risk is increasing. This is due to the increasing volcanic activity, the increasing population, and the increasing infrastructure exposed to the volcanic activity. The assessment is a first step towards a more comprehensive volcanic hazard assessment, and it is necessary to continue with the assessment of the volcanic hazard and the volcanic risk in the future.

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Scientific Community's Responsibility

Term	Short-Term Forecast	Long-Term Precursors (Weeks to Months)
es	no	yes
o	no	probably (but unrecognized)
o	no	none reported
o	no	yes

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