

# Application Of Seismic Refraction Tomography To Karst Cavities

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### Application Of Seismic Refraction Tomography

#### **Application of Seismic Refraction Tomography to Karst Cavities**

29 Application of Seismic Refraction Tomography to Karst Cavities Jacob R Sheehan<sup>1</sup>, William E Doll<sup>1</sup>, David B Watson<sup>2</sup>, Wayne A Mandell<sup>3</sup>  
<sup>1</sup>Battelle, 105 Mitchell Rd, Suite 103, Oak Ridge, TN 37830 <sup>2</sup>Oak Ridge National Laboratory, 1 Bethel Valley Rd, Oak Ridge, TN 37831 <sup>3</sup>US Army Environmental Center, 5179 Hoadley Rd, Aberdeen, MD 21010 ABSTRACT For three years we have used synthetic and

#### **Application of Seismic Refraction Tomography in ...**

Application Of Seismic Refraction Tomography In Delineating Subsurface Geology And Weathering DOI: 109790/0990-0604011120  
 www.wiosrjournals.org 12 | Page deducing suitable sites for engineering structures and general development in the area, hence, the need for this study

#### **APPLICATION OF SEISMIC REFRACTION TOMOGRAPHY TO ...**

and the application on real data (Sheehan et al, 2005c; Cardarelli et al, 2010), have shown that the seismic refraction tomography represents a powerful tool for the detection of subsurface cavities It has the advantages of being a non-invasive technique, of having a good penetrating

#### **Applying the Seismic Refraction Tomography for Site ...**

Seismic refraction method is a geophysical method that has been developed for shallow subsurface investigation It provides 2-dimensional profiles including depth and distance that simplified the characterization of relatively large volumes of the subsurface Interpretation of seismic refraction data using seismic tomography involves continuous

#### **Three-dimensional image of seismic refraction tomography ...**

application of electrical resistivity and seismic refraction tomography in the archaeological site of Occhiola` (Sicily, Italy) Electrical resistivity tomography is most commonly applied in archaeological investigations because of its suitability in detecting walls, cavities and other structures at differing depths [2,10,19,24,27,29]

### **Application of seismic refraction tomography for tunnel ...**

Application of seismic refraction tomography for tunnel design in Santa Clara Mountain, San Juan, Argentina 83 Another difficulty related to traditional seismic refraction methods for data interpretation is that they are only applicable to relatively gentle topography, as mentioned in previous paragraphs

### **Successful application of joint reflection/refraction ...**

refraction tomography Black ticks mark position of first arrivals picked on the real gather We know seismic ray paths for the current velocity model (Figure 3) Similar to standard reflection tomography (Zhou et al 2003), refraction tomography (Zhu et al 2000 and Taillandier et al 2011)

### **waveform tomography and its application to marine seismic ...**

waveform tomography and its application to marine seismic refraction data INTRODUCTION We explore the applicability of two-dimensional seismic waveform tomography to conventional deep-water, long-offset (10s of kilometers) seismic refraction experiments in which ocean-bottom receivers and sea-surface sources are usually

### **Application of turning-ray tomography to Hussar 2D ...**

Application of turning-ray tomography to Hussar 2D seismic line from central Alberta algorithm traces rays through a starting model and computes predicted traveltimes using (1) The tomography must then iterate to converge to the best estimate of the true model by minimizing the differences between the observed and predicted traveltimes

### **Waveform Tomography and its application to Marine Seismic ...**

Waveform Tomography and its application to Marine Seismic Refraction Data Sreeja Nag The Indian Institute of Technology, Kharagpur India-721302

### **2D Refraction Tomography for Velocity Model Building and ...**

land seismic data using shallow refraction information A synthetic seismic data was generated and then an initial interpretation, modeling and inversion were performed using a 2D ray tomography algorithm to minimize first arrival traveltimes, inverting both the seismic velocities as ...

### **3D simultaneous seismic refraction and reflection ...**

Abstract We present an application of three- dimensional (3D) simultaneous seismic refraction and reflection tomography for velocity and interface structure The inversion technique and method for developing the starting model are specifically designed for relatively sparse wide-angle data acquired across strongly- varying structure

### **Reflection seismic waveform tomography**

waveform tomography In waveform tomography, we use different frequency components of data from low to high frequencies in sequence, to gradually improve the resolution of the subsurface velocity model 2 Difficulty in Reflection Tomography [6] Seismic waveform tomography is implemented in the frequencydomain[PrattandWorthington,1990;Prattetal

### **APPLICATION OF INTEGRATED GEOPHYSICAL TECHNIQUES ...**

the resistivity values, producing models with sharp interfaces Two seismic refraction tomography data were acquired (Fig2) during the dry season in

order to measure the permanent water table and subsurface structures that could provide contaminant pathways with ABEM MK6 Terralock Seismic energy was sent into the ground

#### **Application of the Seismic Reflection Method in Mineral ...**

Application of the Seismic Reflection Method in Mineral Exploration and Crustal Imaging Contributions to Hardrock Seismic Imaging Digital Comprehensive Summaries of Uppsala Dissertations from the Faculty of Science and Technology 1269 76 pp Uppsala: Acta Universitatis Upsaliensis ISBN 978-91 ...

#### **Joint inversion of high resolution seismic reflection data ...**

The high resolution seismic reflection section (Fig4) was able to delineate the near surface structures that conform to a very reasonable extent to the seismic refraction tomography model, but the resolution was not as much as that of the refraction tomography model in the near surface

#### **Application of 2D Resistivity Imaging and Seismic ...**

>300 Ohmm and >3600 m/s respectively The correlation of 2D resistivity imaging and seismic refraction tomography show that the depositional environment for this survey is caused by land sediments deposit Application of 2D Resistivity Imaging and Seismic Refraction Tomography to Identify Sungai Batu Sediment Depositional Origin

#### **APPLICATION OF CROSS-PLOT ANALYSIS ON A LEVEE USING ...**

APPLICATION OF CROSS-PLOT ANALYSIS ON A LEVEE USING TIME LAPSE SEISMIC REFRACTION TOMOGRAPHY AND ELECTRICAL RESISTIVITY TOMOGRAPHY Leti Wodajo, Graduate student, ltwodajo@golemissedu, University of Mississippi,

#### **Application of combined time-lapse seismic refraction and ...**

Application of combined time-lapse seismic refraction and electrical resistivity tomography to the analysis of infiltration and dissolution processes in the epikarst of the Causse du

#### **High-frequency acoustic land full-waveform inversion: a ...**

Application of FWI to land data remains challenging due to reflection-based tomography Despite the undisputed success of the FWI case study, reliable model updates above 6 Hz were improved by investing more effort into the refraction/diving wave pre-processing, up ...