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Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Seismic Event Discrimination and Identification

Edited by William R. Walter Hans E. Hartse

Frode Ringdal, Brian L. N.
Kennett, Brian Leslie Norman Kennett

Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Seismic Event Discrimination and Identification William R. Walter, Hans E. Hartse, 2013-04-18 In September 1996 the United Nations General Assembly adopted the Comprehensive Nuclear Test Ban Treaty CTBT prohibiting nuclear explosions worldwide in all environments The treaty calls for a global verification system including a network of 321 monitoring stations distributed around the globe a data communications network an international data center and onsite inspections to verify compliance The problem of identifying small magnitude banned nuclear tests and discriminating between such tests and the background of earthquakes and mining related seismic events is a challenging research problem Because they emphasize CTBT verification research the 12 papers in this special volume primarily addresses regional data recorded by a variety of arrays broadband stations and temporarily deployed stations Nuclear explosions earthquakes mining related explosions mine collapses single charge and ripple fired chemical explosions from Europe Asia North Africa and North America are all studied While the primary emphasis is on short period body wave discriminants and associated source and path corrections research that focuses on long period data recorded at regional and teleseismic distances is also presented Hence these papers demonstrate how event identification research in support of CTBT monitoring has expanded in recent years to include a wide variety of event types data types Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Seismic Event geographic regions and statistical techniques Discrimination and Identification William Walter, Hans E. Hartse, 2002-03-01 In September 1996 the United Nations General Assembly adopted the Comprehensive Nuclear Test Ban Treaty CTBT prohibiting nuclear explosions worldwide in all environments. The treaty calls for a global verification system including a network of 321 monitoring stations distributed around the globe a data communications network an international data center and onsite inspections to verify compliance The problem of identifying small magnitude banned nuclear tests and discriminating between such tests and the background of earthquakes and mining related seismic events is a challenging research problem Because they emphasize CTBT verification research the 12 papers in this special volume primarily addresses regional data recorded by a variety of arrays broadband stations and temporarily deployed stations Nuclear explosions earthquakes mining related explosions mine collapses single charge and ripple fired chemical explosions from Europe Asia North Africa and North America are all studied While the primary emphasis is on short period body wave discriminants and associated source and path corrections research that focuses on long period data recorded at regional and teleseismic distances is also presented Hence these papers demonstrate how event identification research in support of CTBT monitoring has expanded in recent years to include a wide variety of event types data types geographic regions and statistical techniques Analytical Methods for Nonproliferation Edward C. Morse, 2016-04-04 This book is intended to be used as a textbook and research reference for the field of nuclear

nonproliferation The book is primarily technical and focussed on methods of detecting clandestine nuclear material that might be illicitly transported The book also touches on nuclear forensics i e methods for identification attribution and establishment of transport pathways for illicit nuclear material Also covered are topics of methods used for arms control and treaty verification and an assessment of technologies under development for all of the above A description of the government and international agencies involved in nuclear terrorism prevention nuclear safeguards and arms control is also included

Monitoring the Comprehensive Nuclear-Test-Ban Treaty Frode Ringdal, Brian L.N. Kennett, Catherine de Groot-Hedlin, John Orcutt, Howard J. Patton, Brian J. Mitchell, Göran Ekström, Marvin Denny, John R. Murphy, Anatoli L. Levshin, Michael H. Ritzwoller, William Walter, Hans E. Hatse, Zoltan A. Der, Robert H. Shumway, Eugene T. Herrin, 2002-09-26 In September 1996 the United Nations General Assembly adopted the Comprehensive Nuclear Test Ban Treaty CTBT prohibiting nuclear explosions worldwide in all environments The treaty calls for a global verification system including a network of 321 monitoring stations distributed around the globe a data communications network an international data centre IDC and on site inspections to verify compliance This set of 7 volumes contains research papers focusing on seismic event location hydroacoustics regional wave propagation and crustal structure source processes and explotion yield estimation surface waves seismic event discrimination and identification data processing and infrasound in the CTBT context

American Book Publishing Record ,2002 Forthcoming Books Rose Arny, 2002 Das Schweizer Buch ,2003 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen .2002 Monitoring the Comprehensive Nuclear-Test-Ban Treaty Frode Ringdal, Brian L. N. Kennett, Brian Leslie Norman Kennett, 2001 In September 1996 the United Nations General Assembly adopted the Comprehensive Nuclear Test Ban Treaty CTBT prohibiting nuclear explosions worldwide in all environments The treaty calls for a global verification system including a network of 321 monitoring stations distributed around the globe a data communications network an international data centre IDC and on site inspections to verify compliance This volume contains research papers focusing on seismic ecent location in the CTBT context The on site inspection protocol of the treaty specifies a search area not to exceed 1000 square km Much of the current research effort is therefore directed towards refining the accuracy of event location by including allowances for three dimensional structure within the Earth The aim is that the true location of each event will lie within the specified source zone regarding postulated location The papers in this volume cover many aspects of seismic event location including the development of algorithms suitable for use with three dimensional models allowances for regional structure use of calibration events and source specific station corrections They provide a broad overview of the current international effort to improve seismic event location accuracy and the editors hope that it will stimulate increased interest and further advances in this important field Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Surface Waves Anatoli L. Levshin, Michael Ritzwoller, 2012-12-06 On September 1996 the United Nations General Assembly adopted the Comprehensive Nuclear Test

Ban Treaty CTBT prohibiting nuclear explosions worldwide in all environments The treaty calls for a global verification system including a network of 321 monitoring stations distributed around the globe a data communications network an international data center IDC and on site inspections to verify compliance Seismic methods play the lead role in monitoring the CTBT This volume concentrates on the measurement and use of surface waves in monitoring the CTBT Surface waves have three principal applications in CTBT monitoring to help discriminate nuclear explosions from other sources of seismic energy to provide mathematical characterizations of the seismic energy that emanates from seismic sources and to be used as data in inversion for the seismic velocity structure of the crust and uppermost mantle for locating small seismic events regionally The papers in this volume fall into two general categories the development and or application of methods to summarize information in surface waves and the use of these summaries to advance the art of surface wave identification measurement and source characterization These papers cut across essentially all of the major applications of surface waves to monitoring the CTBT This volume therefore provides a general introduction to the state of research in this area and should be useful as a guide for further exploration Verzeichnis lieferbarer Bücher ,2002 Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Source Location Frode Ringdal, Brian L.N. Kennett, 2001-04-01 In September 1996 the United Nations General Assembly adopted the Comprehensive Nuclear Test Ban Treaty CTBT prohibiting nuclear explosions worldwide in all environments The treaty calls for a global verification system including a network of 321 monitoring stations distributed around the globe a data communications network an international data centre IDC and on site inspections to verify compliance This volume contains research papers focusing on seismic ecent location in the CTBT context The on site inspection protocol of the treaty specifies a search area not to exceed 1000 square km Much of the current research effort is therefore directed towards refining the accuracy of event location by including allowances for three dimensional structure within the Earth The aim is that the true location of each event will lie within the specified source zone regarding postulated location The papers in this volume cover many aspects of seismic event location including the development of algorithms suitable for use with three dimensional models allowances for regional structure use of calibration events and source specific station corrections They provide a broad overview of the current international effort to improve seismic event location accuracy and the editors hope that it will stimulate increased interest and further advances in this important field

Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Data Processing and Infrasound Zoltan A. Der,Robert H. Shumway, Eugene T. Herrin, 2012-12-06 On September 10 1996 The United Nations General Assembly adopted the Copmprehensive Nuclear Test Ban Treaty CTBT prohibiting nuclear explosions worldwide in all environments The treaty calls for a global verification system including a network of 321 monitoring stations distributed around the globe a data communications network an international data center IDC and on site inspections to verify compliance This volume presents certain recent research results pertaining on methods used to process data recorded by instruments of the International

Monitoring System IMS and addressing recording infrasound signals generated by atmospheric explosions Six papers treating data processing provide an important selection of topics expected to contribute to improving our ability to successfully monitor a CTBT Five papers concerning infrasound include descriptions of ways in which that important research area can contribute to CTBT monitoring the automatic processing of infrasound data and site conditions that serve to improve the quality of infrasound data Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Source **Processes and Explosion Yield Estimation** Goran Ekstrom, Marvin Denny, John R. Murphy, 2001-12-01 Pure appl geophys by 161 nations Entry of the treaty into force however is still uncertain since it requires ratification by all 44 nations that have some nuclear capability and as of 15 June 2001 only 31 of those nations have done so Although entry of the CTBT into force is still uncertain seismologists and scientists in related fields such as radionuclides have proceeded with new research on issues relevant to monitoring compliance with it Results of much of that research may be used by the International Monitoring System headquartered in Vienna and by several national centers and individual institutions to monitor compliance with the CTBT New issues associated with CTBT monitoring in the 21st century have presented scientists with many new challenges They must be able to effectively monitor compliance by several countries that have not previously been nuclear powers Effective monitoring requires that we be able to detect and locate much smaller nuclear events than ever before and to distinguish them from small earthquakes and other types of explosions. We must have those capabilities in regions that are seismically active and geologically complex and where seismic waves might not propagate efficiently Nuclear Explosion Monitoring Andreas Becker, Bernd Schurr, Martin Kalinowski, Karl Koch, David Brown, 2010-06-19 This topical volume focuses on the most recent advances that have been achieved in relevant fields of research of nuclear test ban monitoring including seismology infrasound and hydro acoustics as well as nuclear physics and atmospheric backtracking This research has been presented during the special sessions on Research and Development in Nuclear Explosion Monitoring convened during the 2007 and 2008 General Assemblies of the European Geosciences Union EGU The special sessions were introduced after the Preparatory Commission for the Comprehensive Nuclear Test Ban Treaty Organization CTBTO Prepcom had convened a scientific symposium in 2006 on CTBT Synergies with Science 1996 2006 and beyond marking the tenth anniversary of the United Nations General Assembly s adoption of the CTBT Treaty With regard to the seismo acoustic fields several papers provide important updates on advances made in these fields since publication of Monitoring the Comprehensive Nuclear Test Ban Treaty see PAGEOPH topical volumes 158 159 2001 2002 Moreover this topical volume expands on these publications by including radionuclide and noble gas monitoring as well as atmospheric transport modeling In these two areas significant progress has been made in recent years Two papers studying the 2006 North Korean nuclear test elucidate how progress made in the relevant fields has allowed for a good understanding on the characteristics of this underground nuclear test Monitoring the Comprehensive Nuclear-Test-Ban Treaty H.J. Patton, Brian J.

Mitchell, 2001-09-01 Regional seismograms are dominated by the phases Pn Pg Sn and Lg More often Sn and Lg are used to infer the attenuation structure of the lithosphere The seismic phase Sn is a high frequency shear wave typically from 1 to 4 Hz and occasionally higher that travels in the lithospheric mantle above the negative velocity gradient which usually marks the lithosphere asthenosphere boundary Sn has been reported out to distances of 35 e g MOLNAR and OLIVER 1969 HUESTIS et al 1973 Sn arrives as a high frequency wave train lasting tens of seconds and up to 1 to 2 minutes Sn velocities are typically 4 7 km s in stable continental and oceanic lithosphere HUESTIS et al 1973 and as low as 4 3 km s KADINSKY CADE et al 1981 in more tectonically active regions Lq is a complex short period guided wave consisting of high frequency P and S energy which travels primarily in the earth s crust at frequencies typically between 0 5 and 5 Hz It has been modeled as higher mode Love and Rayleigh waves as well as a sequence of multiply reflected post critical S waves trapped in a crustal quide BOUCHON 1982 KENNETT 1986 BOSTOCK and KENNETT 1990 Lg has been observed not to propagate in oceanic or very thin continental crust PRESS and EWING 1952 SEARLE 1975 ZHANG and LAY 1995 **Recent Advances in Nuclear Explosion Monitoring** Martin B Kalinowski, Andreas Becker, 2015-02-04 This volume is a follow up of PAGEOPH Topical Volume 167 2010 and again reports on the latest advances in science and technology that have been achieved to monitor compliance with the Comprehensive Nuclear Test Ban Treaty CTBT This progress in the development and testing of new sensor technologies and analysis methodologies in all relevant scientific disciplines improves the detection location and characterization of CTBT relevant events In particular the latter poses a challenge for smaller events where natural or manmade but CTBT irrelevant sources can generate false positive events Being able to effectively identify these events while maintaining a minimum risk of missing a nuclear explosion is the overall challenge The 29 papers in this volume can be structured into 16 waveform studies eight contributions in the field of radionuclide monitoring and related atmospheric backtracking and five papers related to on site inspection or overhead detection of relevant events with many of these originally presented at a special session on Research and Development in Nuclear Explosion Monitoring at the most recent annual General Assemblies of the European Geosciences Union EGU The volume addresses the interests of scientists and practitioners whose work is related to the CTBT relevant applications and technologies in the fields of seismology hydro acoustics infra sound meteorology and nuclear physics Monitoring a Comprehensive Test Ban Treaty Eystein S. Husebye, Anton M. Dainty, 2012-12-06 An international treaty banning the testing of any nuclear device in any environment a comprehensive test ban treaty CTBT has been on the political agenda for nearly 40 years Objections to a CTBT have been political technical or a combination of both However the possibilities seem better after the end of the Cold War In the prevailing cooperative disarmament climate a CTBT appears likely to be approved by most countries in 1996 Hence the great current interest in monitoring technologies and capabilities Such issues are comprehensively addressed here a preamble being devoted to the political developments and setbacks over the past 40 years Since seismic means are considered the

dominant monitoring element they are explored in detail Contributions cover network deployments advanced signal processing wave propagation in heterogeneous media and seismic source representations and a variety of techniques for source classification including neuralnetworks Complementary monitoring techniques such as hydroacoustics radionuclides and infrasound are also summarised The IAEA operation for monitoring compliance with the Non Proliferation Treaty is also presented The book also includes eyewitness accounts of the Soviet 50 Mt megabomb development and test as well as the efforts made by the state to monitor the nuclear test programmes of the western powers Includes some 33 articles written by distinguished scientists active in CTBT monitoring research for decades Seismological Research Requirements for a Comprehensive Test-Ban Monitoring System Panel on Seismological Research Requirements for a Comprehensive Test-Ban Monitoring System, 1995-11-27 Negotiators from more than 35 countries are attempting to formulate a nuclear test ban treaty and delineate a system from monitoring compliance This book covers 1 the desirable characteristics and capabilities of seismic monitoring stations 2 recommendations on the flow paths and handling of the data which are to be unclassified and 3 the types and extent of research that will be needed in the next decade The primary focus of the book is to explore how basic seismological research and test ban monitoring can be mutually beneficial Proceedings of the 21st Seismic Research Symposium, 1999 These proceedings contain papers prepared for the 21st Seismic Research Symposium Technologies for Monitoring The Comprehensive Nuclear Test Ban Treaty held 21 24 September 1999 in Las Vegas Nevada These papers represent the combined research related to ground based nuclear explosion monitoring funded by the National Nuclear Security Administration NNSA Defense Threat Reduction Agency DTRA Air Force Technical Applications Center AFTAC Department of Defense DoD the Comprehensive Nuclear Test Ban Treaty Organization CTBTO and other invited sponsors The scientific objectives of the research are to improve the United States capability to detect locate and identify nuclear explosions. The purpose of the meeting is to provide the sponsoring agencies as well as potential users an opportunity to review research accomplished during the preceding year and to discuss areas of investigation for the coming year For the researchers it provides a forum for the exchange of scientific information toward achieving program goals and an opportunity to discuss results and future plans Paper topics include seismic regionalization and calibration detection and location of sources wave propagation from source to receiver the nature of seismic sources including mining practices hydroacoustic infrasound and radionuclide methods on site inspection and data processing

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