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Poster Session: T1.2, T1.3, T1.4, T2.1, T2.2, T2.3, T3.1, T3.5, T5.2

Wednesday 26 June 2019 16:30 (4 hours)

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T1.2-P2 3D Dynamic Earthquake Fracture Simulations Considering the Nonplanar Fault Geometry and Heterogeneous Stress States in the Sea of Marmara
T1.2-P3 A comparative study on the tectogenesis of 2015 Mt. Kinabalu Earthquake of Sabah Malaysia and tsunamigenic 2018 Sulawesi Indonesia Earthquake
T1.2-P4 A computer code for determining composite focal mechanism solutions
T1.2-P124 SALSA3D software tools for model interrogation, event location and travel-time
T1.2-P5 A THREE-DIMENSIONAL CRUSTAL VELOCITY MODEL OF THE JAVAKHETI HIGHLAND FROM LOCAL EARTHQUAKE TOMOGRAPHY
T1.2-P6 African Geodetic Reference Frame and First Results from GNSS Networks in Africa
T1.2-P7 Amplification of Earthquake Magnitude and Sediment Thickness Correlation in Palu Region and Surrounding Areas
T1.2-P8 An active tectonics of the Tien Shan and Dzungaria
T1.2-P9 An improved velocity model for routine hypocenter location in Central Brazil
T1.2-P10 Analyisis of Earthquake Swarm around Mamasa, Central Sulawesi, Indonesia Following the Palu Earthquake Mw 7.4 (September 28, 2018)
T1.2-P11 Analysis of Time Domain Airborne Electromagnetic (TDEM) Data for Evaluating Gold Mineralization Potential of Ilesha Schist Belt, Southwestern Nigeria
T1.2-P12 Analysis of unusual seismic events in northwestern Madagascar
T1.2-P13 Are we able to detect viscoelastic inconsistencies in the Earth?
T1.2-P14 Armenian Seismic Network and Earthquake Catalogue
T1.2-P15 Changes of seismic structure beneath Jailolo region during June-July 2017 inferred from P-Wave Tomography
T1.2-P16 Clustering Geometry of Aftershocks in Earthquakes
T1.2-P17 Comoro-Islands, source of May-June 2018 earthquake swarm in the east of Mayotte-Island
T1.2-P18 Comparison of Mainshock and Aftershock Energy Release (Case Study: Earthquake in Sumatera and Java Subduction)
T1.2-P19 Contribution of local, sub-regional and international network to earthquake mapping of Côte d'Ivoire
T1.2-P20 Crustal Composition and Moho Characteristics Beneath Northern African Region: New contribution for seismic Hazard Assessment
T1.2-P21 Crustal seismic structure of Gheshm region, southeast Iran
T1.2-P22 Crustal Structure and Seismogenic Zone of Cameroon: Integrated Seismic, Geological and Geophysical Data
T1.2-P23 Crustal structure of some tectonic regions in west Africa
T1.2-P24 Crustal Structure Study in Mongolian Altai
T1.2-P25 Crustal thickness estimates beneath four seismic stations in Ethiopia inferred from p-wave receiver function studies
T1.2-P26 Data base from a seismic network to monitor the 2018 enhanced geothermal system stimulation in Espoo/Helsinki, Finland.
T1.2-P27 Deformational style in North-Western part of the Punjab Foreland
T1.2-P28 Detailed Hypocenters Relocation With High Resolution Analysis on Tripa Fault

T1.2-P29 Discriminating between induced, triggered and natural seismicity
T1.2-P30 Dissecting hearts of the continent in southern Africa using first P-wave tomography based on local, regional, and mining-induced earthquakes
T1.2-P31 Earthquake and Radioctivity, its Application in Indonesia
T1.2-P32 EARTHQUAKES RE-LOCATION, GT EVENTS IDENTIFICATION AND PSHA IN PARTS OF SUB-SAHARAN AFRICA TO BOOST CTBT'S VERIFICATION CAPABILITY AND ITS SCIENTIFIC APPLICATIONS
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T1.2-P35 Estimation of moho depth under the MDT seismic station (Midelt, Morocco) using receiver function technique.
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T1.2-P123 Velocity of seismic waves in the earth's crust and upper mantle of the Siberian platform and Baikal

folded region according to underground nuclear explosions

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T1.3-P2 Climate of the upper ocean layer in statons of Ecuadorian sea
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T1.4-P8 Monitoring of naturally occurring radionuclides in Santa Cruz - Galapagos Islands, in relation to atmospheric and ocean-atmosphere interaction processes over the Galapagos Islands and the Ecuadorian coast
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T2.1-P32 Underground Nuclear Explosions on the North Korean Test Site According to the KNET Network Data
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T2.1-P35 Yield estimation of DPRK3 test with radionuclide IMS stations measurements

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T2.2-P4 Challenges in hosting an On-site Inspection regional course
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T2.2-P13 Theoretical signature of a cavern created by an Underground Nuclear Explosion in 2D exploration seismic data.
T2.2-P15 VNIIA major activities related to the CTBT technologies

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T2.3-P2 A Post Sunda Strait Tsunami Survey of Sunda Strait Tsunami, December 22nd 2018
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T2.3-P4 Analysis of Kosti Meteorite using Infrasound Data: A case Study In Sudan
T2.3-P5 Analysis of the infrasound signals from a bolide over the Bering Sea
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T2.3-P7 Contribution to numerical modeling of site effect by linear equivalent and nonlinear approaches.
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T2.3-P11 Discrimination between quarry blasts and local earthquakes in Aswan, Egypt
T2.3-P12 Distributed acoustic sensing observations and modeling of the DAG series of chemical explosions
T2.3-P13 Estimating seismic source depths using body and surface wave observations
T2.3-P14 High frequency events detected by I33MG
T2.3-P15 High-Precision Teleseismic Double-Difference Earthquake Relocation of Palu – Koro Earthquake M 7.4
T2.3-P16 Hybrid waveform modeling for small-scale source complexity at teleseismic distances
T2.3-P17 Implications for S wave generation from subsurface chemical explosions using large arrays of sen-

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T2.3-P22 Seismic Moment Tensor Inversion for Source-Type Identification
T2.3-P23 Simultaneous relocation of the seismicity of the Pannonian Basin using Bayesloc
T2.3-P24 Source Models and Scattering Origin of Regional Phases from Coda Spectral Ratios
T2.3-P25 Study of seismoacoustic signatures of the September 28th 2018 Sulawesi earthquake
T2.3-P26 The Annual Hungarian Seismo-Acoustic Bulletin of Ground Truth Events
T2.3-P27 The Baumgarten and Ingolstadt explosions: infrasound observations from ground truth sources in Eastern Austria and Southern Germany
T2.3-P28 Tropical cyclones monitoring in the Indian Ocean Basin using Seismic and Infrasonic stations
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T3.1-P2 A New Gamma Camcorder
T3.1-P3 A new process design for compact radioxenon separation system
T3.1-P4 A new three-component optical accelerometer
T3.1-P5 Antineutrino detectors: an evaluation of their use for monitoring of nuclear explosions
T3.1-P6 Application of Optimal Filtering to Take into Account the Influence of Baric and Temperature Fluctuations of the Seismic Instrument and the Environment
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T3.1-P12 Deployment of Portable Infrasound Array in Costa Rica
T3.1-P13 Development and optimization of the infrasound observation system of the NDC of Ukraine
T3.1-P14 Development of a Mobile Radiation Detection System
T3.1-P15 Development of a new compact photon/electron detector for radioxenon measurement
T3.1-P16 Development of an Electrostatic Precipitator System for Radionuclide Particle Collection
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T3.1-P22 Hyper-sensitive Gamma spectrometry – approaching the ultimate limit
T3.1-P23 Improvement of energy resolution of beta detector in radioxenon detection system (INGAS)
T3.1-P24 Improving sensitivity of Noble Gas cluster without enlargement stationary NG stations .
T3.1-P25 Investigating New Detection Mediums for Atmospheric Radioxenon Measurements
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T3.1-P28 Project PIM: a low-cost mobile seismo-acoustic sensor for geophysical deployments
T3.1-P29 PVA nanofibers based microfluidics chip for detection and absorption of nuclear radioactive solutions
T3.1-P30 Radiation detection for OSI - A study of non-He-3 neutron detectors
T3.1-P31 Radioactive gas metrology at NPL and the development of short-lived gas standards
T3.1-P32 Radioxenon collection using synthetized xenon-adsorbing material for Nuclear Test Monitoring
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T3.1-P34 Results from a 6-month acceptance test of the SAUNA III- prototype
T3.1-P35 SAUNA-CUBE: The first prototype for a noble gas system adapted for an Array-network
T3.1-P36 Status of infrasound and seismic metrology at CEA
T3.1-P37 Status of the stack monitor for the STAX project
T3.1-P38 Study of materials for improved adsorption of xenon at IMS radionuclide stations
T3.1-P39 Testing of Cosmic Veto for RASA Background and MDC Reduction
T3.1-P40 The contribution of micro-gravity in delineating subsurface tunnels and caves
T3.1-P41 The gas processing system of SAUNA CUBE
T3.1-P42 The Güralp Affinity as a replacement for the DM24SxAM

T3.1-P43 The radiation dose monitoring network system in a coastal area
T3.1-P44 Three Future Filters for IMS Radionuclide Particulate Operations
T3.1-P45 Towards disaster mitigation on Earthquakes and Tsunamis using off shore real time monitoring data
T3.1-P46 Ultra-sensitive measurements of large-volume radioxenon samples using an ultra-low-background proportional counter
T3.1-P47 Unmanned Aerial Vehicles in On-site Inspection: New techniques for gamma spectroscopy survey
T3.1-P48 Updated results from long-term infrasound sensor comparison
T3.1-P49 Xenon International

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T3.5-P2 A new analysis method for beta-gamma radioxenon spectra, including improved calculation of decision limits
T3.5-P3 A new approach for calculating 1D local velocity model using Particle Swarm Optimization technique
T3.5-P4 A new blind deconvolution approach for the separation of seismic waves
T3.5-P5 A novel approach for signal sparse time-frequency representations
T3.5-P6 A semi-automatic method for extraction and interpretation of reflection Green's Functions from ambient noise and signal, for IMS seismic station crustal reflector characterization
T3.5-P7 A simplified Fuzzy ARTMAP neural network based-approach for seismic signal discrimination between earthquakes and quarry blasts
T3.5-P8 An Integrated Study of Vp/Vs and Ultra Low Frequency (ULF) Anomalies Before Lombok Earthquake (M 6.8)
T3.5-P9 Analyzing seismic explosion records using SEISAN
T3.5-P10 Application of Butterworth High Pass Filter as an Approximation of Wood Anderson Seismometer Frequency Response to Earthquake Signal Recording
T3.5-P11 Applying waveform correlation to aftershock sequences using a global sparse network
T3.5-P12 Automatic characterization of phase type at three-component seismic stations using neural networks
T3.5-P13 Automatic machine learning methods for analyzing radioxenon isotopes spectra
T3.5-P14 Automatic Systems for Accurate Tracking of Aftershock Sequences
T3.5-P15 Bayesian Approach to Localization of Atmospheric Release with Demonstration on the Case of Ruthenium-106 Release in 2017
T3.5-P16 Can artificial intelligence help detect nuclear explosions?
T3.5-P17 Coherent Detection on Networks
T3.5-P18 Comparing REB and SSEB (IDC products) with other Seismic Data Centers
T3.5-P19 Comparison of pick-based and waveform-based event detectors for local to near-regional distance data from Utah
T3.5-P20 Contribution of Kazakhstan's Stations of the International Monitoring System into Global and Regional Monitoring
T3.5-P21 Data Processing Modular Software for real-time Stack Monitor
T3.5-P22 Detecting low magnitude seismic events using Convolutional Neural Networks
T3.5-P23 Detection algorithm based on the fourth order cumulant
T3.5-P24 Detection and classification of lightning events
T3.5-P25 Detection performance of dynamic correlation processors using de-noised signal space-spanning templates
T3.5-P26 Developing a Deployable, Flexible Radionuclide Analysis Pipeline
T3.5-P27 Discrimination Between Earthquakes and Explosions by Using scaling parameter Hurst Parameter
T3.5-P28 Discrimination between nuclear explosions and natural earthquakes
T3.5-P29 Disturbing Incidents Signal Character Analysis in Nuclear Explosion Infrasound Detection
T3.5-P30 Dynamic and Agnostic State of Health (SOH) Analysis Tools for Noble Gas Systems
T3.5-P31 Enhancement on the algorithm of characterization limits of the net count calculation method for low counts of IMS beta-gamma coincidence noble gas samples
T3.5-P32 Exploiting Bayesian inference priors to form synthetic waveform events or to validate events formed by automatic processing
T3.5-P33 Global and local scale high-resolution seismic event catalogs for algorithm development and testing
T3.5-P34 Implementation of a Fast Infrasonic Spectrum Sensing System Based on Fisher-Statistics Detection Method
T3.5-P35 Improvements of phase detection and identification using 3C array processing
T3.5-P36 InfraPy – An Open Source Signal Analysis Toolkit for Infrasound Research
T3.5-P37 iNSPIRE: iNtegrated Software Platform for the Interactive REview - The first release features for beta-gamma coincidence based noble gas data
T3.5-P38 Joint Processing of Seismic and Infrasound Signals from Mining Blasts
T3.5-P39 Learning about small-scale atmospheric structures through recurrent infrasound events
T3.5-P40 Leveraging Powerful Artificial Intelligence Abstractions of IMS Data
T3.5-P41 Long-term infrasound monitoring of volcanic activities of Kyushu region in Japan

T3.5-P43 Matrix operation of the net count calculation method for beta-gamma coincidence spectrum analysis of IMS noble gas samples
T3.5-P44 Mel Cepstrum techniques for event identification
T3.5-P45 Multilayer neural network architecture optimization and performance amelioration for seismic signal classification using genetic algorithms
T3.5-P46 Optimization algorithm for synergy of CTBT verification techniques in addressing IMS and OSI tasks
T3.5-P47 Platform for Rain Monitoring and Flood Prevention Risk Oriented Citizen in Dakar
T3.5-P48 RASA Filter Jam Detection Algorithms
T3.5-P49 Recent Advances and Status of Generative Modeling for Network Processing at the CTBTO
T3.5-P50 Reduction of wind noise impact based on the use of data from a weather station in recording infrasound signals at IS43
T3.5-P51 RNIAC: A cloud-based approach of the Radionuclide National Data Centre (NDC) in a Box software (RNIAB)
T3.5-P52 RSTT validation studies in the Middle East, Central Asia and the Caucasus
T3.5-P53 Scientific evaluation of the benefits of increase in resolution for IDC's ATM tools and launching interface
T3.5-P54 SeisComP3 iLoc integration applied to array processing
T3.5-P55 Seismic instrument response representation using poles and zeros in Laplace domain.
T3.5-P56 Seismic Phase Identification with Deep Learning in Frequency Domain
T3.5-P57 Sensitivity analysis and disaggregation of recent seismic hazard assessment in Egypt
T3.5-P58 Sensitivity of a Bayesian source-term estimation model to spatiotemporal sensor resolution
T3.5-P59 Signal Character Analysis of Lightning in Nuclear Explosion Infrasound Detection
T3.5-P60 Simulations of gamma ray spectra of fission samples
T3.5-P61 Source Spectral Discrimination between Shallow Earthquakes and Quarry Explosions in Northern of Egypt
T3.5-P62 Source Term Estimation in the Presence of Nuisance Signals
T3.5-P63 Source Term Estimation Using Multiple Isotopes in Atmospheric Samples
T3.5-P64 Source term estimation with a simple weak-constraint inverse modeling scheme
T3.5-P65 Spectral Region-of-Interest Methods Used in Net Count Calculations
T3.5-P66 Spectrum Analysis of Digital Seismic Data in Indonesia
T3.5-P67 Stack data processing pipeline
T3.5-P68 Study of variants for seismic data pre-processing which are not leading to significant losses of information that may be needed
T3.5-P69 SVM classification of explosions and earthquakes using seismic features
T3.5-P70 Testing IMS/CTBT Verification Capability Using July 2013 Lake Albert Seismic Activity in Western Rift, Uganda
T3.5-P71 The application of multi-criteria synthetic method in discrimination of nuclear explosions from earthquakes
T3.5-P72 The challenge of quantitative comparison and quality assessment of IDC waveform bulletins
T3.5-P73 The Identification and Determination of Small Peaks and the False Positive Alarm in RN Particulate Spectra Analysis
T3.5-P74 The iterative processing framework: a new paradigm for automatic event building
T3.5-P75 THE STAX PROJECT. A NEW DATA SOURCE TO AID IN TREATY MONITORING
T3.5-P76 The Wind Influence to the Detection Ability of Permanent and Mobile Infrasound Stations in Mongolia
T3.5-P77 Toward reliable certainty for seismic processing tasks with deep learning
T3.5-P78 Towards Automatic Noble Gas Data Processing at the Canadian NDC
T3.5-P79 Towards real-time association of infrasound events using full-wave modeling
T3.5-P80 Using spectral ratios to discriminate between low-magnitude earthquakes, explosions and mining events in Canada
T3.5-P81 Weather support and application of ATM during an OSI: development perspectives
T3.5-P82 When can the combination of seismic and infrasound data improve event location?
T3.5-P83 Application of Nonlinear Echo State Network (Machine Learning) in Daily Streamflow Forecasting

Topic T5.2 Experience with and Possible Additional Contributions to Issues of Global Concern such as Disaster Risk Mitigation, Climate Change Studies and Sustainable Development Goals
T5.2-P1 Activities of the Ghana Nuclear Data Centre (NDC)
T5.2-P2 Awareness about the benefits of "Hydroacoustic Technology" for tsunami warnings in coastal areas in India.
T5.2-P3 Contribution to the Global Non-Proliferation and Nuclear Disarmament Regime at the Example of Kazakhstan-Japan Cooperation
T5.2-P4 Contributions to Issues of Global Concern such as Disaster Risk Mitigation
T5.2-P5 CTBT in Global Context: Nepal' Scenario
T5.2-P6 CTBT Technology for securing SDG 6: Ensure availability and sustainable management of Water and

sanitation for all.
T5.2-P7 Earthquake Preparedness and the University Community Response in Albania
T5.2-P8 Earthquake tectonics, sustainability of cities and infrastructure, seismic hazard assessment and mitigation. A Case study in north-east of Azerbaijan
T5.2-P9 Economic uses of previous nuclear test grounds (Semipalatinsk test site)
T5.2-P10 Five ideas for health and environment deals
T5.2-P11 Geological controls and Climate change in the Greater Himalayan region
T5.2-P12 How National Young Academies can Help CTBTO implementing relevant Sustainable Development Goals
T5.2-P13 Identification of Mass Movements Using the CTBTO IMS Data: Seismo-Acoustic Technology
T5.2-P14 Integrating the CTBTO IMS and NDC into the NNNREP as a Tool for Enhancing Radiological Emergency Response and Preparedness in Nigeria
T5.2-P15 Integration of IMS Data and Smart Cities: Mardim Streps - Smart City Istanbul
T5.2-P16 Integration of Seismic Data of IMS for Sustainable Cities and Communities
T5.2-P17 Integration of the IMS waveform technologies for Tsunami Early Warning: A perspective from Venezuela and the Caribbean
T5.2-P18 Investigation of the Catchments Sensitivity on the Observed Climate Change Signal
T5.2-P19 Microgravity Survey to Evaluate Earthquake Effects on a Dam Site in Iraq
T5.2-P20 Mining and pure uranium in Mexico, its social and environmental implications. Case: Durango
T5.2-P21 Modeling of atmospheric dispersion and radiation dose for a hypothetical accident in Radioisotope production facility
T5.2-P22 Modern seismic network development in Iraq
T5.2-P23 Nuclear energy and nuclear bombs effect on the environment.
T5.2-P24 Operational Readiness of CTBT Hydroacoustic Stations in Achieving Sustainable Development Goal 14
T5.2-P25 Prediction of Major Earthquakes Using 4-D Seismic Attenuation Tomography
T5.2-P26 Preventing the Effects of Natural Disasters and Nuclear Test with the CTBT Verification Technologies for Myanmar
T5.2-P27 Promotion of Civil and Scientific Applications of Data and Techniques used for Nuclear-Test-Ban Verification
T5.2-P28 Recent seismic activities in Ghana: The role of the National Data Centre (NDC)
T5.2-P29 Remote sensing earthquake ground motions using seismo-acoustic coupled signals
T5.2-P30 Scientific Applications of IDC and IMS Products: Earthquake Research and Tsunami Warning in Sri Lanka
T5.2-P31 Seismic Hazard Assessment for Northern Malawi
T5.2-P32 Seismic Intensity Map of 5.5 Mozambique Earthquake
T5.2-P33 SEISMICITY STUDY OF BOTSWANA FROM 1966 TO 2012
T5.2-P34 Site Class Analysis for Preparation Due to Measurement ANT using PSD at Jakarta
T5.2-P35 Strategies to prevent the proliferation of nuclear weapons and create in their place energy to alleviate the energy shortage in the world.
T5.2-P36 Summer School in Old Nuclear Test Site in Kazakhstan
T5.2-P37 Sustainable Development and experiences in the nuclear sphere from Serbia, still not member of the European Union
T5.2-P38 Swedish Biodiversity in Time and Space
T5.2-P39 The Advances in Scientific Technology and Enforcement of Effective Socio-Political and Economic Policies Will be the Surest Way to Achieve the SDG's
T5.2-P40 The changes in the wildlife of a region as an indicator of the effect of the radiation caused by the nuclear tests
T5.2-P41 The CTBTO IMS and NDC Opportunities to Help Detect, Prepare, Respond and Mitigate Disasters from Earthquakes and Tremors in Abuja, Nigeria
T5.2-P42 The future of nuclear energy in Latin America
T5.2-P43 The Investigation between the CTBT and the UN Sustainable Development Goals
T5.2-P44 The role of NDCs and NDC cooperation to promote the additional use and understanding of IMS data to benefit civil applications
T5.2-P45 The WHO and the CTBTO: joint initiatives to address air pollution in the cities
T5.2-P46 Tsunami Evacuation Map in Padang, West Sumatra for Disaster Risk Mitigation
T5.2-P47 Tsunami risk assessment in South-Eastern Mediterranean
T5.2-P48 Urban Seismic Risk Evaluation for Georgia
T5.2-P49 Waiting to the eight: Billions people and CTBTO committed for a safer world