

## Session: T1.4, T3.5, T3.7, T5.4

*Wednesday, 28 June 2017 18:00 (2h 30m)*

### Topic 1.4 Hydroacoustics and Physical Properties of the Oceans

- T1.4-P1 Data Processing Technique for T-phase and Tsunami Signals Recorded by IMS Hydrophone Triplets
- T1.4-P2 Establishment of the IMS Hydroacoustic Station HA04, Crozet Islands, France
- T1.4-P3 Exploiting Recent Plentiful Detections at H03 and H11
- T1.4-P4 (Y) Numerical Tsunami Modelling of the 2 March 2016 Southwest of Sumatra Earthquake (M = 7.8)
- T1.4-P5 Observations of a Coherent Signal in the High-Frequency Range of IMS Hydrophones (105-108Hz) at Station HA08, Diego Garcia, Indian Ocean
- T1.4-P6 Progress in the Studies on the Next Generation Cabled IMS Hydroacoustic Stations
- T1.4-P7 Risk Management and Program Execution
- T1.4-P8 (Y) Tsunami Waves Generated by Earthquakes and Landslides: Computed by Means of Numerical Simulations in the Western Black Sea

### Topic 3.5 Data Processing and Interpretation

- T3.5-P1 Addressing the Challenges of Displaying Geotechnical Information in 3D Environments
- T3.5-P2 Advancing the Practice of Seismology in Iraq
- T3.5-P3 (Y) Amplitude Attenuation and Applied in Earthquake and Explosion Identification
- T3.5-P4 (Y) Analyzing of Seismic Recording in Frequency Domain at Nuclear Bomb Explosion: Case Study North Korea's Nuclear Test
- T3.5-P5 (Y) Anomalous Signal Before Indonesia's Large Earthquakes 2011 Detected by Superconducting Gravimeter
- T3.5-P6 (Y) Comparison of Analysis Methods to Identify Radionuclide Isotopes
- T3.5-P7 Comprehensive Seismic Monitoring: Developments at the USGS National Earthquake Information Center
- T3.5-P8 (Y) Contrasting 3D Visualization of Different OSI Data Types with More Standard 2D Representation
- T3.5-P9 Correlation Detection of Uncertain Seismic Signals
- T3.5-P10 Data Analysing for Supporting the CTBTO's Treaty by the National Data Center Suriname
- T3.5-P11 Deploying ENIAB in Cloud Platform
- T3.5-P12 Detection Capability of the IMS Seismic Network in 2013
- T3.5-P13 (Y) Developments at the UK National Data Centre for Radionuclide Analysis
- T3.5-P14 Digital Revolution in Gamma Acquisition Systems: Costs and Benefits
- T3.5-P15 Distributed Seismic Event Detection Analytics at the Edge
- T3.5-P16 Evaluating West Eurasian Clusters of Infrasound Arrivals in Analyst-Reviewed Bulletins of the International Data Centre
- T3.5-P17 Expert Technical Analysis Improvements at the International Data Center, CTBTO
- T3.5-P18 (Y) Extended NDC-in-a-Box Implementation for Mongolian NDC
- T3.5-P19 Finding Aftershocks with Waveform Cross-Correlation
- T3.5-P20 Hypercomplex and High-Order Master Event Design for CTBT Monitoring
- T3.5-P21 IDC Re-Engineering Phase 2: Analysis Interface Improvements
- T3.5-P22 IDC Re-Engineering Phase 2: Software Architecture and Data Model
- T3.5-P23 Identification of Explosions and Earthquakes Using Infrasound and Seismic Data
- T3.5-P24 (Y) Importancy of Noise Level at CTBTO Facilities
- T3.5-P25 Improving Geophysical Data Processing and Research With Multi-Cloud Environments
- T3.5-P26 Introduction of the Results of a New Automatic Association System for Waveform Data Analysis
- T3.5-P27 (Y) Methodology for Volcanic Monitoring Using the Processing and Analysis of Geospatial Data and Its Implementation in the "Concepción" Volcano of Nicaragua
- T3.5-P28 (Y) Mining Explosion Identification Using Seismic and Infrasound Station Data
- T3.5-P29 Monitoring of Tropical Cyclones Using Seismic and Infrasonic Stations Surrounding the South-Western Indian Ocean
- T3.5-P30 Negative Evidence: The Non-Use of Non-Detections in IDC Seismic Data Processing
- T3.5-P31 Observing the Variability of Earth's Microseisms Through Signal Coherency Analysis
- T3.5-P32 (Y) On the Usability of Event Zero Time Determinations Using Xenon Isotopic Activity Ratios Given the Real Atmospheric Background Observations
- T3.5-P33 Optimizing Atmospheric Monitoring Networks Using Bayesian Methods and Genetic Algorithms for Multiple Objectives
- T3.5-P34 Real Time Monitoring Data Application and Simulation Researches for Earthquake and Tsunami Disaster Mitigation

T3.5-P35 (Y) Relocation of Seismicity in Northern East of Egypt: Contribution of Different Regional Seismic Networks

T3.5-P36 Research on Recognition Technology for Weak Explosion Signals

T3.5-P37 Seismic Monitoring Evolution and Extensive Seismicity of Egypt

T3.5-P38 Seismic Monitoring Technology of Weak Earthquakes and Explosions on the Based of Solution the Seismic Moment Tensor Inverse Problem

T3.5-P39 Seismic Monitoring Using Arrays in the Middle East

T3.5-P40 Some Results of Low-Magnitude Seismicity Recording in Belarus

T3.5-P41 Special Noise Field Characteristics of a Small Aperture Seismic Array on the Southeast Coast of China

T3.5-P42 (Y) Static Corrections to Improve Detection, Location and Measurement of Seismic Discriminants at IMS Arrays

T3.5-P43 Surface Reflection Arrivals from Shallow Small Magnitude Explosions Using the Cepstrum Technique: A Numerical Analysis

T3.5-P44 The Benefit of Using Higher Sampled Regional Seismic Data for Determining Cepstral Depths of Shallow Events

T3.5-P45 The Correction of Coincidence Summing Effect in Filter Sample Measurement with HPGe Spectrometer

T3.5-P46 The IDC Re-Engineering Project, Phase 2

T3.5-P47 The IMS Seismic Network Used to Support and Mitigate Volcanic Risk with One Single Station Method

T3.5-P48 Theoretical and Experimental Analyses of Infrasound-Electromagnetic Data Fusion

T3.5-P49 Time Series Classification Using Covariance Descriptors

T3.5-P50 (Y) Time Series Reconstruction as a Preventive Maintenance Tool for the Radionuclide IMS Data

T3.5-P51 Towards a New Paradigm for the Interactive Analysis of Waveform Data

T3.5-P52 US Navy's "Full Ship Shock Trials" as Opportunities for USGS and CTBTO Seismic System Evaluation and Calibration

T3.5-P53 Update of the Evaluated Radioxenon Nuclear Decay Data

T3.5-P54 Using Reflection Green's Functions Extracted from Ambient Seismic Noise and Signal for IMS Seismic Station Site Crustal Reflector Characterization

T3.5-P55 (Y) Velocity Model of Seymareh Region: Southwest of Iran Using Local Seismic Network Data

T3.5-P56 Wind Seismic Noise Introduced by External Infrastructure: Field Data and Transfer Mechanism

T3.5-P57 Model of Xe Radionuclides Measurements on Noble Gas System with a Long Cycle of Sampling

### Topic 3.7 Algorithms

T3.7-P1 (Y) A Method to Improve Relative Earthquake Locations Using Surface Waves

T3.7-P2 A Review of the Most Frequently Applied Seismic P-Wave Picking Algorithms

T3.7-P3 Application of Diffusion Maps for Seismic Event Characterization in Israel

T3.7-P4 Automated Techniques for Waveform Correlation Applied to Regional Monitoring of Eastern Asia

T3.7-P5 Automatic Classification of Seismic P and S Wave Signals Using Multiple Parameters, Frequency Ranges and Artificial Neural Network

T3.7-P6 Automatic Identification of Repeated Industrial Seismicity in the Reviewed Event Bulletin

T3.7-P7 Compressive Sensing and Sparsity Based Method for Time-Frequency Distribution Optimization

T3.7-P8 Earthquake Event Detection and Separation from Local Noise Using SVM Classifier

T3.7-P9 Enhancement of Cepstral Methods for the Improved Processing of Seismic Data

T3.7-P10 Non-Linear Kernel Methods for Seismic Event Characterization

T3.7-P11 Peak Search and Fitting Techniques for Analysis of the Radioxenon Beta-Gamma Coincidence Spectra

T3.7-P12 The Use of Waveform Cross-Correlation for Detection, Relative Location and Magnitude Estimation of Repeated Mining Blasts: The Jordan Phosphate Mine Eshidiya

### Topic 5.4 Capacity Building, Education and Public Awareness

T5.4-P1 Third Cycle On-Site Inspection (OSI) Surrogate Inspector Training: Positive Outcomes on the Local Level

T5.4-P2 A CTBTO Semester-Long Simulation Course in International Relations Curriculum as a Method of Developing the Students' Professional Skills

T5.4-P3 Advancement of CTBT Academic Curricula in South-South Nigeria

T5.4-P4 (Y) Back to Basics: Building the Next Generation of Indian Nuclear Experts

T5.4-P5 Challenges and Advances in Implementation of CTBTO Facilities and Supports in Senegal

T5.4-P6 (Y) Cooperation Between Cameroon, CTBTO and Others Parties: Capacity Building, Education and Public Awareness

T5.4-P7 CTBT Educational Materials as a Tool for Sensitization and Internal Training

T5.4-P8 Current Awareness of the Comprehensive Nuclear-Test-Ban Treaty in Nigeria

T5.4-P9 Diversified Education on CTBT in Beijing Language and Culture University

T5.4-P10 Expanding the Use of the CTBT Educational Resources Among the Academics in West Africa  
T5.4-P11 FSUE VNIIA Activities Related to CTBT Technologies  
T5.4-P12 IMS Network in Papua New Guinea and the Utilization for the Benefits of the Local and Regional Monitoring Systems  
T5.4-P13 Integrating Knowledge Generated by CTBT in Teaching Nuclear Science and Engineering  
T5.4-P14 Introducing m-Science Systems for Engaging Broader Community to the Needs of Nuclear Test Monitoring and Verification  
T5.4-P15 Jordan Seismological Observatory and IMS  
T5.4-P16 Malawi Seismicity and Seismic Network from 1900-2016  
T5.4-P17 Mongolian National Data Centre  
T5.4-P18 Monitoring for Nuclear Explosions  
T5.4-P19 NDC Training 2.0: From Training Analysts to Training NDCs  
T5.4-P20 Nuclear Pacific: An International Public Inquiry on French Nuclear Weapons Testing in French Polynesia  
T5.4-P21 (Y) Potential Benefits of CTBTO to Iraq  
T5.4-P22 Public Awareness and Capacity Building  
T5.4-P23 Public Awareness Creation of National Data Centres in Africa  
T5.4-P24 (Y) Relevance of the Capacity Building System (CBS) in Zambia's NDC  
T5.4-P25 (Y) Scientific Community: Its Role in Nuclear Disarmament  
T5.4-P26 Seismic Monitoring and its Analysis in Kyrgyzstan  
T5.4-P27 (Y) The CTBT as a useful tool for Myanmar's students in Nuclear Age  
T5.4-P28 (Y) The Hidden Potential of Nuclear Research Centres Collaborations  
T5.4-P29 The IS35 and AS067 IMS Infrasound and Auxiliary Seismic Station in Tsumeb, Namibia  
T5.4-P30 The Role of Small States in Monitoring Nuclear Explosions: The Case of Kazakhstan  
T5.4-P31 The Significance of National Data Centres Established in West Africa  
T5.4-P32 The Status of the CTBTO Link to the ISC Database  
T5.4-P33 (Y) Implementing National Nuclear Safety Knowledge Platform within the GNSSN Framework  
T5.4-P34 Enhancing Public Awareness of the CTBTO/ CTBT Among Youth  
T5.4-P35 Regional Denuclearization in South Pacific: Failures and Successes after 30 years