

Programme

International Workshop «Mega Earthquakes and Tsunamis in Subduction Zones– Forecasting Approaches and Implications for Hazard Assessment»

Rhodes Isl., Greece, 6-8 Oct., 2014

Arrivals	Sunday, 5 October 2014
Opening	DAY 1 - Monday, 6 October 2014 Registration: 08:00 – 09:15 Poster display: 08:00 – 09:15 Welcome: 09:15 – 09:30
Session 1	DAY 1 - Monday, 6 October 2014 Lessons learned from the recent cases of mega earthquakes and tsunamis Chair: K. Satake, A. Yalciner
Invited Talk 09:30 – 10:00	Prof. Thorne LAY , Dept. of Earth & Planetary Sciences, University of California Santa Cruz, USA A Global Surge of Tsunamigenic Earthquake Ruptures and How We Are Quantifying Them
10:00-10:15 A. DZVONKOVSKAYA, Th. HELZEL	SIGNIFICANT SURFACE CURRENT VELOCITY CHANGES MEASURED BY THE OCEAN HIGH- FREQUENCY RADAR AFTER THE GREAT 2011 JAPAN TSUNAMI
10:15-10:30 R. MAZOVA, B. KISELMAN, N. BARANOVA, A. RASSADIN	CATASTROPHIC CHILEAN EARTHQUAKE AND TSUNAMI ON 1 APRIL 2014. EVIDENCE FOR REALIZED PROGNOSIS
10:30-10:45 K.-N. KATSETSIADOU, E. ANDREADAKIS, E. LEKKAS	ISHINOMAKI TSUNAMI INTENSITY MAPPING (ITIS2012) FOR THE 9M _w TOHOKU EVENT, MARCH 11 2011, JAPAN
10:45-11:00 G.A. PAPADOPOULOS F. IMAMURA	EXPERIENCES FROM THE APPLICATION OF THE NEW 12-POINT TSUNAMI INTENSITY SCALE: 2001-2014
Coffee Break	11:00 – 12:00, Poster visits & discussion

Session 2	DAY 1 - Monday, 6 October 2014 Earthquake and Tsunami Forecasting Chair: V. Gusiakov, Th. Lay
Invited Talk 12:00– 12:30	Prof. Kenji SATAKE , Earthquake Research Institute, University of Tokyo, Tokyo, Japan Challenges for Forecasting Size and Time for Future Great Earthquakes in Subduction Zones
12:30-12:45 B. FRY, L. WALLACE, D. RHOADES, H. KAO, I. HAMLING, M. GERSTENBERGER, N. BARTLOW	INTERACTION BETWEEN SSE, EARTHQUAKES, AND SEISMIC RADIATION IN THE HIKURANGI SUBDUCTION SYSTEM
12:45-13:00 E. CHRISTOU, E. SCORDILIS, G. KARAKAISIS	TIME-DEPENDENT SEISMICITY ALONG THE WESTERN COAST OF CANADA
13:15-13:30 Eleni DASKALAKI, G.A PAPADOPOULOS, C.SIETTOS	RUPTURE ZONES OF LARGE EARTHQUAKES, LITHOSPHERIC COUPLING AND SEISMIC POTENTIAL IN THE HELLENIC ARC AND TRENCH
13:30-13:45 A. GANAS, P. K. ARGYRAKIS, N. C. SAGIAS	PROGRESS TOWARDS DEVELOPMENT OF THE NOANET GNSS EARLY WARNING WEB PLATFORM: PRELIMINARY RESULTS
Lunch Break	Plaza Hotel, 13:45 – 15.30

	DAY 1 - Monday, 6 October 2014
Session 3	International Collaboration
	Chair: T. Aarup, W. Brenn, G.A. Papadopoulos
15:30-16:00	Brief Introduction to international initiatives (e.g. EU, IOC/UNESCO, JGZB, EJEa etc.)
Invited Talk 16:00 – 16:30	Prof. Maria Ana BAPTISTA , Portuguese Institute for Ocean and Atmosphere (IPMA), Lisbon, Portugal Co-authored with A.C. YALCINER and the ASTARTE Team ASTARTE: A European (FP7) Tsunami Research Project
16:30-16:45 G. DIAKOGIANNI, A. FOKAEFS, G.A. PAPAPOULOS, A. PAPAGEORGIU	AN EXTENDED HOMOGENEOUS QUICK-LOOK TSUNAMI CATALOGUE FOR THE EUROPEAN- MEDITERRANEAN REGION
16:45-17:00 A. PAPAGEORGIU, Ch. TSIMI, K. ORFANOIANNAKI, G.A. PAPAPOULOS, M. SACHPAZI, F. LAVIGNE, D. GRANCHER	TSUNAMI QUESTIONNAIRE SURVEY IN HERAKLION TEST SITE, CRETE ISLAND, GREECE
17:00-17:15 B. AYTORE, C. Z. CANKAYA, A. C. YALCINER, M. L. SUZEN, A. ZAYTSEV	HIGH RESOLUTION DATA PROCESSING AND TSUNAMI ASSESSMENT AND APPLICATIONS TO PORTS IN THE SEA OF MARMARA
Session 4 17:15-18:00	DAY 1 - Monday, 6 October 2014
	Plenary Discussion on International Collaboration
	Panelists: T. Aarup, M. Baptista, W. Brenn, V. Gusiakov, Th. Lay, K. Neville, K. Satake, A. Yalciner
	Moderator: D. Albert
Social Programme	DAY 1 - Monday, 6 October 2014
	20:00 Welcome Reception, Plaza Hotel

DAY 2 - Tuesday, 7 October 2014 Pre- and Post-Disaster Resilience and Risk Mitigation Actions Conveners & Chairpersons Dietrich ALBERT ^{1,2,4} , Wolfgang BRENN ^{1,3} and Karen NEVILLE ^{4,5}	
Special Session (5)	1. EJEА (European Japan Expert Association - http://ejea.eu/) 2. Knowledge Technologies Institute, Graz University of Technology, Austria dietrich.albert@tugraz.at ; Dept. of Psychology, University of Graz, Austria dietrich.albert@uni-graz.at 3. JDZB (Japanese-German Center Berlin – (http://www.jdzb.de/), wbrenn@jdzb.de) 4. S-HELP-Project (Securing – Health.Emergency.Learning - www.fp7-shelp.eu/) 5. Centre for Security Management Research (CSMR), BIS, University College Cork, Ireland, KarenNeville@ucc.ie
09:00-09:15 K. OMURA	URBAN PLANNING FOR DISASTER RESILIENT CITIES IN CASE OF JAPAN
09:15-09:30 N. SUGIYAMA	STUDY ON DEVELOPMENT OF AN EVALUATION METHOD FOR CITY ENERGY RESILIENCE IN JAPAN
09:30-09:45 V. EL MAZRAANI	HOSPITAL PREPAREDNESS FOR DISASTERS
09:45-10:00 C. GOUNTROMICHOU, N. PAPADOPOULOS, K. C. STYLIANIDIS	OPERATIONAL PREPAREDNESS POLICY AND RESPONSE IN CASE OF EARTHQUAKE IN GREECE
10:00-10:15 R. WARGER, S. NINDL, B. JUEN	A COMPREHENSIVE GUIDELINE ON PSYCHOSOCIAL SUPPORT BEFORE, DURING AND AFTER CRISIS: A RESULT FROM THE EU-PROJECT OPSIC
10:15-10:30 G. ZUCCARO, M. POLESE, M. LEONE, A. GARCIA, C. AUBRECHT, M. ALMEIDA, S. NARDONE	IMPACT DAMAGE SCENARIOS FOR ALTERNATIVE DECISION MAKING THROUGH THE USE OF CRISMA TOOL
10:30-10:45 K. NEVILLE, A. POPE, S. WOODWORTH	INVESTIGATING THE BENEFITS OF CURRENT TOOLS IN SUPPORTING RESPONDER NEEDS
10:45-11:00 W. HYNES	SPATIAL INFORMATION MANAGEMENT AND GEOGRAPHIC INFORMATION SYSTEMS IN THE DELIVERY OF S-HELP DECISION SUPPORT TOOLS FOR EMERGENCY SITUATIONS
Coffee Break: 11:00 – 11:30, Poster visits/discussion	
11:30-11:45 C. RAFALOWSKI , T. KAPLAN	DECISION SUPPORT FOR HEALTH CARE – USERS PERSPECTIVE
11:45-12:00 A. NUSSBAUMER, C. M. STEINER, D. ALBERT	A PSYCHOLOGICAL FRAMEWORK FOR THE S-HELP DECISION SUPPORT SYSTEM

12:00-12:15 A. SILVA, A. RODRIGUES, D. MARQUES, C. DUARTE, M. A. BAPTISTA L. CARRIÇO	<p style="text-align: center;">FINDING PEOPLE IN NATURAL DISASTERS</p>
<p style="text-align: center;">Lunch Break</p>	<p style="text-align: center;">Plaza Hotel, 12:15 – 14:00</p>
<p style="text-align: center;">Special Workshop Open Participation for all METSZ Participants 14:00 – 16:00</p>	<p style="text-align: center;">DAY 2 - Tuesday, 7 October 2014</p> <p style="text-align: center;">Validating End User Requirements for a Decision Support Tool for Health Emergency Management</p> <p style="text-align: center;">Hosts: EU-FP7 “S-HELP Project” coordinator (Dr. Karen Neville, UCC-BIS) and project partners Dr. William Hynes (FAC) and Prof. Dietrich Albert (TuGraz)</p>
<p style="text-align: center;">Session 6</p>	<p style="text-align: center;">DAY 2 - Tuesday, 7 October 2014</p> <p style="text-align: center;">Tsunami Forecasting, Hazard & Risk Assessment, Early Warning</p> <p style="text-align: center;">Chair: F. A. Audemard, M. Baptista</p>
<p style="text-align: center;">Invited Talk 15:00 – 15:30</p>	<p>Dr Viacheslav K. GUSIAKOV, Tsunami Laboratory, Inst. of Computational Mathematic and Mathematical Geophysics, Siberian Division, Russian Academy of Sciences, Novosibirsk, Russia</p> <p>Largest Historical Tsunamis in the World Ocean and Their Implication for Coastal Hazard Assessment</p>
<p style="text-align: center;">Key-note Lecture 15:30 – 16:00</p>	<p>Prof. Ahmet C. YALCINER, Middle East Technical University, Dept. of Civil Engineering, Ocean Engineering Research Center, Ankara, Turkey</p> <p>Co-authored with A. ZAYTSEV, Ç. BILICI, S. ACAR, and B. AYTÖRE</p> <p>Spatial and Temporal Distribution of Elevation, Current Flow Depth and Fluxes by Tsunami</p>
16:00 – 16:15 F. A. AUDEMARD M. , S. GLIMSDAL, A. F. LEAL G.	LOCAL HISTORICAL TSUNAMIS ALONG NORTHEASTERN VENEZUELA, SOUTHERN CARIBBEAN: TECTONIC AND/OR MASS WASTING INDUCTION? FIRST MODELING RESULTS OF STRIKE-SLIP GENERATION
16:15-16:30 G. PAGNONI, A. ARMIGLIATO, S. TINTI	HAZARD AND RISK ASSESMENT FOR ALEXANDRIA RELATED TO TSUNAMIS GENERATED BY EARTHQUAKES IN THE EASTERN MEDITERRANEAN REGION
16:30-16:45 A. KIJKO, A. SMIT	NEW PROCEDURE FOR PROBABILISTIC TSUNAMI HAZARD ASSESSMENT FROM INCOMPLETE AND UNCERTAIN DATA
16:45-17:00 A. SMIT, G. PAPADOPOULOS, A. KIJKO	NEW PROCEDURE FOR PROBABILISTIC TSUNAMI HAZARD ASSESSMENT FROM INCOMPLETE AND UNCERTAIN DATA. AN APPLICATION TO THE MEDITERRANEAN REGION

17:00-17:15 B. RANGUELOV	KINEMATIC MODELING FOR THE SEISMIC AND TSUNAMI EARLY WARNING SYSTEMS – BULGARIAN EXPERIENCE
17:15-17:30 G. A. PAPADOPOULOS and the NEARTOWARN team	NEAR-FIELD TSUNAMI EARLY WARNING AND PREPAREDENESS IN THE MEDITERRANEAN: THE EU NEARTOWARN PROJECT
17:30 -18.00	DAY 2 - Tuesday, 7 October 2014 Short introduction to the field trip - Closing
Social Programme	DAY 2 - Tuesday, 7 October 2014 20:00 Gala Dinner, Plaza Hotel
Technical Programme: Field trip	DAY 3 - Wednesday, 8 October 2014 Visiting the uplifted eastern coast of Rhodes Isl. including the archaeological site of Lindos

Poster Session Programme

Instructions

All Posters should be placed on the boards in the morning of the first day of the Workshop (Monday, 6 October, 2014) from 08:00 to 09:15 and to be removed in the second day (Wednesday, 7 October, 2014) before lunch. Poster visits/discussions will be made during the coffee breaks.

List of poster presentations

Gülşen AKAN, Mustafa SOFTA, **Mehmet Erkan KARAMAN** and Mehmet TURAN
ACTIVE TECTONIC AND HISTORICAL SEISMICITY OF KUMLUCA-DEMRE PLAIN
(ANTALYA-TURKEY)

Stefan Florin BALAN, Bogdan Felix APOSTOL, Delia TELEAGA and Dragos TOMA
CASE STUDIES OF HAZARD ASSESMENT FOR BUCHAREST METROPOLITAN
AREA

Natalia BARANOVA, Boris BARANOV, Leopold LOBKOVSKY and Raissa MAZOVA
NEW APPROACH TO THE ANALYSIS OF STRONGEST EATHQUAKE TOHOKU 2011

Aggeliki BARBEROPOULOU and Finn SCHEELE
TOWARDS DEVELOPING A HAZARD ASSESSMENT METHODOLOGY OF
HISTORICALTSUNAMI EVENTS

Halil BOLUK, **Mehmet Erkan KARAMAN** and Ergun TURKER
ESTIMATING STRESS ACCUMULATION ON PALEO-FAULTS WITH 4D ANALYSIS
OF GEOPHYSICAL MESUREMENTS

Stefano TINTI, Alberto ARMIGLIATO and **Gianluca PAGONI**
TSUNAMI WARNING IN COMPLEX TECTONIC ENVIRONMENTS: POSSIBLE
STRATEGIES FOR THE EASTERN HELLENIC ARC

Alexandr RASSADIN, Broneslav Kiselman and Raissa MAZOVA
THE STUDY OF WAVE ENERGY DISTRIBUTION AT TSUNAMI WAVE
PROPAGATION IN OKHOTSK SEA BASIN

Dimitra SALMANIDOU, Frederic DIAS, Aggeliki GEORGIPOULOU and Serge
GUILLAS
NUMERICAL SIMULATION OF A SUBMARINE LANDSLIDE AND TSUNAMI
GENERATION AT THE ROCKALL TROUGH, NE ATLANTIC

Kaliopi CHOCLAKI, **Filippos VALLIANATOS** and George MICHAS
SCALING PROPERTIES OF WORLDWIDE STRONG SEISMICITY IN VIEW OF NON-
EXTENSIVE STATISTICAL PHYSICS

A. LÓPEZ – VENEGAS, U.-T. BRINK
ESTIMATING THE NORTHEASTERN CARIBBEAN MEGA EARTHQUAKE SEISMIC
POTENTIAL FROM CONTINUOUS GPS OBSERVATIONS IN PUERTO RICO AND
THE VIRGIN ISLANDS