

	MARE 1	MARE 2	MARE 3	MARE 4	DUBRAVA 1	DUBRAVA 2	LEVANT	KOKPIT
8:30-9:00	KEYNOTE BY BARBARA ČENČUR ČURK Convener: Kristijan Posavec							
9:00-9:15	THEMATIC LECTURE - KINDRA BY MARCO PETTITA Convener: Kristijan Posavec							
	T2.3. Sustainable management of groundwater resources worldwide - what have we learned? Convener: Teodora Sozics (sozics.teodora@mgt.hu), Aurélien Dumont (a.dumont@unesco.org)	T2.4. Managed Aquifer Recharge Convener: Peter Dillon (pdillon500@gmail.com), Yan Zheng (yan.zheng@sust.edu.cn)	T3.1. Groundwater modelling in intergranular systems Convener: Kristijan Posavec (kristijan.posavec@rgn.hr), Daniela Ducci (daniela.ducci@unimi.it)	T3.5. Groundwater modelling and management Convener: Paolo Fabbri (paolo.fabbri@unipd.it), Kristijan Posavec (kristijan.posavec@rgn.hr), Marco Masetti (marco.masetti@unimi.it)	T4.4. Application of remote sensing and geophysics techniques in groundwater monitoring Convener: Josip Terzić (josip.terzic@hgi-cg.hr), Staša Borović (stasa.borovic@hgi-cg.hr)	T5.1. Sustainability of karst aquifer use - global and regional outlooks Convener: Zoran Stevanović (zstev_2000@yahoo.co.uk), Božidar Biondić (biondic@gf.vr)		
9:15-9:30	T2.3.1 Rowena Hay: "Dealing with consequences of haphazard urban development across a coastal lowland: Hydrogeological importance of the Cape Flats Aquifer system, South Africa"	T2.4.1 Yogita Dashora: "Economics of recharge augmentation by four check dams on ephemeral streams in a hard rock area of Rajasthan, India"	T3.1.2 Anna Jaros: "The effect of a fully-integrated model parameterization on groundwater-surface interactions in boreal esker-mire landscape: example of the Oivassuo aapa mire in Finland"	T3.5.1 Wendy Timms: "Groundwater processes in geomchanical models of underground mining"	T4.4.1 Bessière Hélène: "MétéEau des nappes": a decision making tool to characterize in almost real-time groundwater quantitative state"	T5.1.1 Zoran Stevanović: "Karst aquifer as one of the major global water sources state of art and perspectives"		
9:30-9:45	T2.3.2 Ian White: "Groundwater security and sustainable development: the dilemma in atoll countries"	T2.4.2 Raul Nogueiras: "ARTIFICIAL GROUNDWATER RECHARGE USING DEEP WELLS: EXPERIENCES AT MADRID TERTIARY DETRITAL AQUIFER"	T3.1.3 Majid Tale Semromi: "A fully coupled SWAT-MODFLOW Model to simulate Surface-Groundwater Interactions: Application to the Gharehsoo River Basin, Iran"	T3.5.2 Elena Filimonova: "Groundwater resources dynamics in small-scale river basin under climate change conditions"	T4.4.2 Stefanie Bus: "Characterizing groundwater heads with online interactive time series analyses"	T5.1.3 Coran Kelly: "Establishing Geoscientific Zones of Contribution to Karst Drinking Supply Springs"		
9:45-10:00	T2.3.3 Nária Ferrer: "How do new development activities affect coastal groundwater systems in Africa? The case of Kwaie, Kenya"	T2.4.3 Michaela Rüdli: "Mapping aquifer productivity in the Sahel region: Harmonization of transboundary maps"	T3.1.4 Claire Carlier: "Catchment controls on storage and low-flow dynamics: a hydrogeological modelling approach."	T3.5.3 Kristijan Posavec: "Multipurpose project Programme Sava - numerical modeling of impact of Option 2A conceptual solution on groundwater"	T4.4.3 Carlos Maldaner: "Measuring changes in groundwater flow using fibre optic active distributed temperature sensing in bedrock boreholes"	T5.1.4 Matej Blatnik: "Ground water characteristics of the Ljubljana River recharge area, Slovenia"		
10:00-10:15	T2.3.4 HANICH Lahoucine: "Sustainable management of surface and groundwater resources of the Tensift basin (Morocco)"	T2.4.5 Frank Herrmann: "Links between the presence of snowpacks and groundwater recharge - Simulation results for the territory of Slovenia"	T3.1.5 Janja Vrzel: "Hydrodynamic and geochemical analysis of groundwater-surface water interactions (Ljubljansko polje, Slovenia)"	T3.5.4 Ralf Junghans: "MOFLOW-based web modeling framework"	T4.4.5 Ted McCormack: "Monitoring and Mapping Groundwater Flooding In Ireland"	T5.1.6 Julian Xanke: "Managed aquifer recharge into a karst groundwater system at the Wala reservoir, Jordan"		
10:15-10:30	T2.4.6 Yvan Caballero: "Mapping groundwater recharge with associated uncertainty at the regional scale"			T3.5.5 Giovanna De Filippis: "Using advanced modeling tools for sound groundwater governance of transboundary aquifers in southern Africa: the Stampriet Transboundary Aquifer System case study"	T4.4.6 Richard Taylor: "Recent changes in terrestrial water storage in the Upper Nile Basin: an evaluation of commonly used gridded GRACE products"	T5.1.7 Junbing Pu: "Critical Zone in China's karst area: a hydrogeological Perspective"		
10:30-10:45		T2.4.7 Helen Seyler: "Promoting the Capture Principle Approach to Sustainable Groundwater Use in South Africa"		T3.5.6 Joel Podgorski: "Water quality prediction mapping with the Groundwater Assessment Platform (GAP)"	T4.4.7 Adi Tal: "Implementing of geophysical methods to monitor seawater intrusion in multi-layered coastal aquifer"			
10:45-11:00				T3.5.7 Catalin Stefan: "A multi-scale perspective for the modelling of managed aquifer recharge (MAR) applications"	T4.4.8 Albert Folch: "Combining different techniques to monitor seawater intrusion integrating different observation scales"			
11:00-11:30	COFFEE BREAK IN HALL							
	T2.3. Sustainable management of groundwater resources worldwide - what have we learned? Convener: Teodora Sozics (sozics.teodora@mgt.hu), Aurélien Dumont (a.dumont@unesco.org)	T2.4. Managed Aquifer Recharge Convener: Peter Dillon (pdillon500@gmail.com), Yan Zheng (yan.zheng@sust.edu.cn)	T3.1. Groundwater modelling in intergranular systems Convener: Kristijan Posavec (kristijan.posavec@rgn.hr), Daniela Ducci (daniela.ducci@unimi.it)	T3.5. Groundwater modelling and management Convener: Paolo Fabbri (paolo.fabbri@unipd.it), Kristijan Posavec (kristijan.posavec@rgn.hr), Marco Masetti (marco.masetti@unimi.it)	T6.2. Monitoring of seawater influenced aquifers Convener: Nicholas Robins (nick.robins@gmail.com), Marina Čuk (marina.cuk@rgf.bg.ac.rs)	T5.3. Modelling of flow and contaminant transport in karst Convener: Neven Krešić (neven.kresic@amec.com), Andreas Hartmann (A.Hartmann@bristol.ac.uk)		
11:30-11:45	T2.3.5 Geary Schindel: "Source Water Protection Strategies for Karst Aquifers"	T2.4.8 Andrew Ross: "The costs of managed aquifer recharge"	T3.1.6 Kosta Urumović: "Relations between mineralogical and hydrogeological properties of typical fine grained sediments in eastern Croatia"	T3.5.8 Luis Ribeiro: "Description of spatial variability of nitrate in Campina de Faro aquifer, Portugal by a non-linear geostatistical methodology"	T6.2.1 Željimir Pekas: "Novljanska Žrnovnica spring - Specifics of groundwater discharge and abstraction regime"	T5.3.1 Lea Duran: "Comparison of pipe network and hybrid numerical models applied to karst systems in Ireland"		
11:45-12:00	T2.3.6 Arnaud Malard: "Visual KARSYS - a web-tool for the documentation of karst aquifers"	T2.4.9 Cao Wengeng: "Evaluation of Managed Aquifer Recharge Site Suitability for the North China Plain"	T3.1.7 Michela Trabucchi: "Recovery test interpretation under non-ideal conditions"	T3.5.9 Hasan Yazicigi: "Dewatering Design for an Open Pit Coal Mine and Assessment of Anticipated Impacts on the Groundwater Resources"	T6.2.2 Andres Gonzales Amaya: "Recharge characterization in the semi-arid Punata alluvial fan (Bolivia)"	T5.3.2 Laurence Gill: "Damped tidal signal at an inland ephemeral lake (turlough) used to infer karst conduit connection"		
12:00-12:15	T2.3.7 Laurence Bentley: "Towards Sustainable Groundwater Management in the Valle Alto de Cochabamba, Bolivia"	T2.4.10 Xin He: "Potential of using Managed Aquifer Recharge to restore groundwater aquifers in North China Plain"	T3.1.8 Nola Dalla Libera: "Subsoil geostatistical modeling as tool for hydrogeological modeling: Transitional Probability approach applied upon a heterogeneous site"	T3.5.10 Carlos Guevara Morel: "Effects of well ageing on the hydraulics of water wells"	T6.2.3 Giuseppe Sappa: "The state of art on the coastal aquifers database coming from the CAD-CZM network of IAH"	T5.3.3 Zhao Chen: "Modeling water fluxes and storages in an Alpine karst catchment in the context of climate change"		
12:15-12:30	T2.3.8 Sarah Shals: "Collective action in groundwater management - Lessons learnt from the Angas-Bremer irrigation district, South Australia"	T2.4.11 Jinchao Li: "Simulation of Managed Aquifer Recharge through Infiltration via Yufu River Channel Bed in Jinan"	T3.1.9 Berenice Zapata-Norbeto: "Nonlinear consolidation in randomly heterogeneous highly compressible aquifers"	T3.5.11 Alexander Vandenbohede: "Groundwater flow and time series models: complementary techniques to derive groundwater dynamics."	T6.2.4 Tobias Holt: "Tidal-driven dynamics and evolution of a young freshwater lens on a juvenile barrier island, 'Ostplate', Spiekeroog, Northern Germany"	T5.3.4 Andreas Hartmann: "On the value of water quality observations for karst model parameterization"		EARLY CAREER HYDROGEOLOGIST NETWORK (ECHO) SESSION - SUCCESSFUL PROJECTS: FROM APPLICATION TO MANAGEMENT - TIPS FROM SENIOR'S HYDROGEOLOGIST IN THE GOVERNMENT, INDUSTRY AND ACADEMIA TO EARLY CAREER HYDROGEOLOGISTS
12:30-12:45				T3.5.12 Russell Martin: "Groundwater modelling to facilitate regulatory change to realise operational efficiency at the Aldinga Managed Aquifer Recharge System"	T6.2.5 Marek Marciniak: "Direct measurements of submarine seepage of groundwater into the Puck Bay, Poland"	T5.3.5 Jean-Baptiste Charlier: "Quantifying surface water- groundwater interactions in a karst basin using the diffusive wave model"		
12:45-13:00				T3.5.13 Karlis Kukmilks: "Hydrogeological triggers of the Beisermillen landslide in the Mosel River valley, Luxembourg"	T6.2.6 Nele Grünbaum: "Recirculation rates within beach sediments under meso-tidal conditions (Spiekeroog, Northern Germany)"	T5.3.6 Matias Mudarra: "Role-assessment of the soil-epikarst-unsaturated zone in the hydrogeological functioning of karst aquifers using a process-based simulation model"		
13:00-14:00	LUNCH IN HOTEL RESTAURANT							
14:00-14:30	KEYNOTE BY ANKER LAJER HØJBERG Convener: Kristijan Posavec							
14:30-14:45	THEMATIC LECTURE - BIRDSALL-DREISS LECTURE BY EDWIN HARVEY Convener: Kristijan Posavec							
	T2.8. Management of groundwater systems in urban and mining areas Convener: Helen C. Bonor (helson@bgs.ac.uk), Michael Rivett (michael.rivett@strath.ac.uk), Mitja Janžar (mitja.janzar@geo-zs.si)	T2.2. The role of groundwater in reducing poverty Convener: Alan MacDonald (am@bgs.ac.uk) and Viviana Re (viviana.re@unipv.it)	T1.2. Groundwater management and energy source development in a changing climate Convener: Adam Toth (adam.geophysics@gmail.com) and Roland Barthel (roland.barthel@gsa.se)	T3.5. Groundwater modelling and management Convener: Paolo Fabbri (paolo.fabbri@unipd.it), Kristijan Posavec (kristijan.posavec@rgn.hr), Marco Masetti (marco.masetti@unimi.it)	T4.5. Groundwater resources evaluation and management under arid conditions Convener: Staša Borović (stasa.borovic@hgi-cg.hr), Petra Souvent (petra.souvent@gov.si)	T5.4. Protection of karst sources and environment Convener: Nico Goldscheider (goldscheider@kit.edu), Nataša Ravbar (natasaravbar@zrc-sazu.si)		
14:45-15:00	T2.8.2 Patrick Morrissey: "Integrating Hydru and Modflow to predict on-site wastewater treatment contaminant transport in different aquifers"	T2.2.10 Michael Rivett: "On the rise of pit latrines and the safeguard of groundwater in Southern Malawi"	T1.2.1 Eric Morales-Casique: "Numerical groundwater flow and geochemical modeling for basin-scale hydrogeologic analysis"	T3.5.14 Nicolas Roux: "Long term groundwater level reanalysis over France using the multimodel parallel plateforme Aquif-FR"	T4.5.1 Roi Ram: "R1K: Dating of ancient 14C-depleted water: an example from the Nubian Sandstone Aquifer of the Negev Desert (Israel)"	T5.4.1 Branislav Petrović: "EPIK Intrinsic Groundwater Vulnerability Assessment and Statistical Sensitivity Analysis: Case Studies from Serbian Karst"		
15:00-15:15	T2.8.3 Peter Somerville: "Regulating water extraction and salinity in an alluvial groundwater system in a heavily modified, coal-bearing, coastal catchment with sparse data"	T2.2.11 Jade Ward: "Rapid screening for pathogens in drinking water: preliminary results from a national scale survey in Malawi"	T1.2.2 Gabriele Oberto: "Assessing the impact of climate change on groundwater resources using a coupled irrigation system/groundwater numerical model: a case study in Lodi province (Italy)"	T3.5.15 Aybülal Fatkhudinov: "Multi-objective optimization of aquifer storage transfer and recovery systems based on evolutionary algorithm"	T4.5.2 Matthieu Baleset: "Azraq aquifer overexploitation lead to a global salinization: the use of borehole geophysical monitoring tools to enhance groundwater management (Jordan)"	T5.4.2 Hrvoje Meški: "Karst Aquifer Vulnerability Assessment (KAVA) method on the example of two catchments in Croatia"		
15:15-15:30		T2.2.13 Alan MacDonald: "Hand pump functionality: are the rural poor getting a raw deal?"	T1.2.3 Arnaud Sterckx: "The Impact of the Last Glaciation on Groundwater Flow in the northern Baltic Artesian Basin (BAB): A Numerical Study."	T3.5.16 Jana Glass: "Web-based compilation of empirical and analytical equations for the sustainable management of groundwater resources"	T4.5.3 Raimier Dennis: "Groundwater Resource Directed Measures"	T5.4.3 Pierre-Yann DAVID: "Middle Risle critical zone observatory: monitoring karstic processes evolution in the river, their impacts on surface water/groundwater interaction and their consequences on aquatic ecosystems"		
15:30-15:45				T3.5.17 Stefan Broda: "Weekly, monthly and seasonal forecasting of groundwater levels using artificial neural networks"		T5.4.4 Husam Bazalouha: "Vulnerability Mapping of Karst Aquifers in Qatar"		
15:45-16:15	COFFEE BREAK IN HALL							
	T2.8. Management of groundwater systems in urban and mining areas Convener: Helen C. Bonor (helson@bgs.ac.uk), Michael Rivett (michael.rivett@strath.ac.uk), Mitja Janžar (mitja.janzar@geo-zs.si)					T5.6. Novel methods and techniques for karst aquifer characterization Convener: Jean Christophe Marechal (jc.marechal@brgm.fr), Peter Malik (peter.malik@geology.sk)		
16:15-16:30	T2.8.4 I. Gev: "Preservation of Groundwater Production Potential in Israel"					T5.6.1 Robert Agnew: "Classification of Free Phase Gas in Springs"		
16:30-16:45	T2.8.5 Ingeliv Eriksson: "Subsidence management in Oslo - from GIS analysis to urban planning"					T5.6.2 Simon Frank: "Fluorescence-based multi-parameter approach to examine the water quality of alpine karst springs"		
16:45-17:00	T2.8.6 Helen Seyler: "Water Sensitive Design Scenario Planning for Cape Town using an Urban (Geo)Hydrology Model"					T5.6.3 Jake Longenecker: "Karst spring catchment delineation using correlation between hydrographs and satellite global precipitation measurements"		
	POSTER SESSIONS IN HALL T5, T6							
	T5.1.8 Jelena Krstajic: "Importance of stable and reliable monitoring of karst aquifers in assessing CC impacts"	T5.2.12 JOSE BENAVENTE: "A PERMANENT KARST DRAINAGE SYSTEM DEVELOPED OVER A DIFFUSE-FLOW SYSTEM IN THE SAME CARBONATE AQUIFER (NERJA, SPAIN)"	T5.3.9 Casey Jones: "Spring hydrograph and recession curve analysis in deep karst aquifer of Grand Canyon National Park, USA"	T5.5.10 Catherine Coxon: "Veterinary drug occurrence in Irish karst and fractured bedrock aquifers: preliminary findings"	T6.1.6 Ivana La Licata: "Characterization and numerical model of Nauru Island (Pacific Ocean) for groundwater management in different sea level scenarios"	T6.3.7 Satoshi Ishida: "Estimate of the amount of freshwater lens and fluctuation of thickness of freshwater in Tarama Island, Japan."	T6.3.12 Laura Martínez-Perez: "New guidelines to describe seawater intrusion process: the experimental Argenta field site"	
	T5.1.9 Chabudziński Łukasz: "Springs location and it is discharge changes in a border zone of the Rotozece and Lublin Upland, SE Poland"	T5.2.13 Mauro Pagnozzo: "Analysis of recharge processes in karst systems"	T5.3.10 Ronald Vernes: "Unravelling the hydraulic properties of the chalk in Limburg, the Netherlands using artificial neural networks"	T5.5.11 Didier Pennequin: "Complex pollutant transfer in fractured and karstified chalk aquifer systems in Eastern Normandy, France."	T6.1.7 Raghendra Shandilya: "Climatic induced salinization in the Porto Santo Island (Portugal)"	T6.3.8 Yongcheol KIM: "Field evaluations of new monitoring method for temporal change of freshwater-saltwater interface location"	T6.4.10 Kosta Urumović: "Hydrogeological research for water-source heat pump utilization in Babin kuk peninsula (Dubrovnik, Croatia)"	
17:00-19:00	T5.1.10 Charbel Abou Khalil: "Ground Water exploration in Tarsich-Lebanon using Audio Magnetoluric (AMT)"	T5.2.14 Oliver Koit: "THRESHOLD-CONTROLLED HYDRAULIC BEHAVIOUR OF A MANTLED KARST SYSTEM (TUHALA KARST AREA, NORTH ESTONIA)"	T5.5.7 Dorothy Vesper: "Appalachian Valley and Ridge spring geochemistry: Monroe County West Virginia, USA"	T5.6.4 Todd Hallinan: "High Resolution Site Characterization in Karst Systems: Integrated 3D Geophysical Analysis"	T6.1.8 Rena Meyer: "Evolution of saltwater intrusions in the low-lying coastal areas in Southern Denmark"	T6.3.9 Peter Dahlqvist: "Hydrogeological mapping of the island of Öland, Sweden, with SKYTEM"	T6.4.11 Işın Machida: "Anomaly of Hydraulic heads at deep region in Pleistocene sedimentary soft rock area, Japan"	
	T5.2.10 Blaž Kogovšek: "Monitoring and usage of natural and artificial tracers in the study of karst aquifers - a case study of the Malenšica karst spring, Slovenia"	T5.3.7 Owen Naughton: "Investigating the relationship between rainfall and flooding within lowland karst wetlands using cross-correlation analysis"	T5.5.8 Petra Bodor: "Comparison of recent and fossilized biofilm and calcite samples from the caves of Gellért Hill, Budapest, Hungary"	T5.6.5 Jessica Bou Nassar: "Geologic, Hydrogeologic and Geophysical Analysis for Groundwater Exploration in Karst Formation"	T6.1.9 Wencke Johanna Louise Schubert: "Large-scale modeling of saltwater intrusion in North-Western Germany"	T6.3.10 Frederic HUNEAU: "Long term climate and intense exploitation context: case of the coastal basaltic aquifer of Dilbouth"	T6.4.12 Daniel Emilio Martínez: "Assessment of coastal Aquifers in Latin America and Climate Change: The WaterClima-LAC Project contribution"	
	T5.2.11 Paulo Galvão: "Transmissivity of Aquifer by Capture Zone Method: An Application in the Sete Lagoas Karst Aquifer, MG, Brazil"	T5.3.8 Yali Cui: "Karst water flow simulation and prediction in Daxing district, Beijing"	T5.5.9 Paulo Galvão: "Recharge Sources and Hydrochemical Evolution of an Urban Karst Aquifer, Sete Lagoas, MG, Brazil"	T5.6.6 Katalin Csonder: "Radon as a natural tracer of underwater hypogenic caves"		T6.3.11 Guilherme Nogueira: "Mapping and evolution of hydrochemical water types in Maputo coastal aquifer"	T5.1.5 MEHMET EKMEKCI: "Hydrogeological conceptualisation of Pinarbasi karst spring for an effective protection zone delineation"	
			IAH COMMISSION ON GROUNDWATER AND CLIMATE CHANGE	ECHO ANNUAL GENERAL MEETING	COMMISSION ON KARST HYDROGEOLOGY	COASTAL AQUIFERS MANAGEMENT AND COASTAL ZONE DYNAMICS NETWORK	COMMISSION ON MINERAL AND THERMAL WATERS	URBAN GROUNDWATER NETWORK
19:00	GENERAL ASSEMBLY							