

TUESDAY OCTOBER 5 2021			
Session	Time_Slot	Title	Authors (underlined: presenter), only the affiliation of the presenter is provided In red: virtual presentation
		PLENARY SESSION: AMPHITHEATER	
	09:00-09:30	Opening of the conference	
S13	09:30-10:00	Data Assimilation for Continuous Assessment of Severe Conditions Over Terrestrial Surfaces	<u>Bertrand Bonan</u> (CNRM, Toulouse), Clément Albergel, Yongjun Zheng, Anthony Mucia, Emanuel Dutra, Nemesio Rodríguez-Fernández, Simon Munier, Clara Draper, Patricia De Rosnay, Joaquin Muñoz-Sabater, Gianpaolo Balsamo, David Fairbairn, Catherine Meurey, Jean-Christophe Calvet
S2	10:00-10:30	Putting a Whole System Approach into practice – Implications for Standard Observations, network and site operations	<u>Michael Mirtl</u> (UFZ Helmholtz Centre for Environmental Research, Germany), Steffen Zacharias
	10:30-11:00	COFFEE BREAK	
S3	11:00-11:30	Title to be defined	<u>Nicola Montaldo</u> (University of Cagliari, Italy)
S4	11:30-12:00	Retro-observation of Earth Critical Zone Dynamics from Lake Sediment records	<u>Fabien Arnaud</u> (EDYTEM, Chambéry, France)
S5	12:00-12:30	The bedrock component of watershed storage: Advances and insights	<u>Daniella Rempe</u> (Jackson School of Geosciences, University of Texas at Austin, USA)
	12:30-14:00	LUNCH	
		PARALLEL SESSION: Amphitheater	
S5	14:00-14:15	A sprinkling experiment around a superconducting gravimeter: identifying dominant hydrological water distribution processes in the subsurface	<u>Marvin Reich</u> (Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences), Michal Mikolaj, Theresa Blume, Andreas Güntner
S5	14:15-14:30	Catchment memory of climate anomalies	<u>Alban De Lavenne</u> (HYCAR, INRAE, Antony), Vazken Andréassian, Louise Crochemore
S5	14:30-14:45	Ecohydrological modeling in three contrasted watersheds from OZCAR research infrastructure	<u>Julien Ackerer</u> (IGE, Grenoble; IPGP, Paris), Sylvain Kuppel, Sandrine Anquetin, Isabelle Braud, Laurent Ruiz, Anne Probst, Jean-Luc Probst, Ophélie Fovet, Florence Habets, Marie-Claire Pierret, Jérôme Gaillardet
S5	14:45-15:00	Hybrid gravimetry as a tool to calibrate a physically based distributed hydrological model	<u>Quentin Chaffaut</u> (ITES, Strasbourg), Nolwenn Lesparre, Jacques Hinderer, Frederic Masson
S5	15:00-15:15	Investigating uncertainty in catchment-scale water transit time resulting from sparse tracer data and StorAge Selection functions parameterization	<u>Arianna Borriero</u> (Department of Hydrogeology (HDG), Helmholtz-Centre for Environmental Research - UFZ), Stefanie Lutz, Rohini Kumar, Tam Nguyen, Sabine Attinger, Jan Fleckenstein
S5	15:15-15:30	Measuring cloud water input and interception to better estimate the water storage dynamics in tropical Islands	<u>Alix Toulhier</u> (IPGP, Paris), Jean-Lambert Join, Claudine Ah-Peng, Yoan Benoit, Quentin Nifaut, Pierre Stamenoff
	15:30-16:00	COFFEE BREAK	
S5	16:00-16:15	Water where there is no water – Atmospheric water captured by world deserts	<u>Nurit Agam</u> (Blaustein Institutes for Desert Research, Ben Gurion University of the Negev, Israel), Dilia Kool
S5	16:15-16:30	What is water storage?	<u>Jan Seibert</u> (University of Zürich [Zürich])
S5	16:30-16:45	Assessing regional water storage dynamics and drought vulnerability	<u>Gunnar Lischeid</u> (Leibniz-Zentrum für Agrarlandschaftsforschung - ZALF (GERMANY) (ZALF) - Müncheberg - Germany; University of Potsdam)

S5	16:45-17:00	Building a full subalpine critical zone model from multiple geophysical data to simulate water path and transfers	Jean-Martial Cohard, Aniket Gupta (IGE, Grenoble), Marc Descloitres, Didier Voisin, Jean-Pierre Vandervaere
S5	17:30-17:15	Coupled modelling of hydrological processes and grassland production in two contrasting climates	Nicholas Jarvis (Swedish University of Agricultural Sciences), Katharina Meurer, Elisabet Lewan, Elvin Rufullayev, Walter Durka , Cornelia Baessler, Jannis Groh, Thomas Pütz, Harry Vereecken
S5	17:15-17:30	Deep-water circulation in the Strengbach Critical Zone Observatory (Vosges Mountain, France)	François Chabaux (ITES, Strasbourg), Daniel Viville, Frédéric Gal, Catherine Lerouge, Coralie Ranchoux, Julien Ackerer, Jérôme Van Der Woerd, Frédéric Delay, Philippe Ackerer, Thierry Reuschlé, Philippe Pezard, Luc Aquilina, Philippe Négrel, Chrystel Dezayes
		PARALLEL SESSION: Room 2	
S2	14:00-14:15	Assessing the biogeographical and socio-ecological representativeness of the ILTER site network	Thomas Ohnemus (Helmholtz Centre for Environmental Research - UFZ, Department Monitoring and Exploration Technologies), Christoph Wohner, Steffen Zacharias, Hannes Mollenhauer, Erle Ellis, Hermann Klug, Hideaki Shibata, Michael Mirtl
S2	14:15-14:30	Biodiversity in agricultural ecosystems: from conservation perspective to ecosystem functioning	Florian Kletty (École Nationale du Génie de l'Eau et de l'Environnement de Strasbourg, Institut Pluridisciplinaire Hubert Curien)
S2	14:30-14:45	Entering Earth's Critical Zone – a zone of converging thought and action	Steven Banwart (Global Food and Environment Institute [Leeds]), Lesley Green, Andrew Warnes, Anna D. Krzywoszynska
S2	14:45-15:00	Multiscale analysis for a long time series of micrometeorological observation in a typical semi-arid Mediterranean ecosystem: the evapotranspiration variability	Roberto Corona (Department of Civil Engineering, Environmental and Architecture, University of Cagliari, Italy), Nicola Montaldo, Gabriel G. Katul
S2	15:00-15:15	The longer the better: long-term monitoring of wild bees in different agricultural landscapes reveals surprising effects of hot years	Mark Frenzel (Helmholtz Centre for Environmental Research – UFZ), Frank Creutzburg, Oliver Schweiger
S2	15:15-15:30	Crop model inter comparison study for the same soil ecosystem under different climatic conditions	Jannis Groh (Forschungszentrum Jülich GmbH), Efstathios Diamantopoulos, Xiaohong Duan, Frank Ewert, Florian Heinlein, Michael Herbst, Maja Holbak, Bahareh Kamali, Kurt-Christian Kersebaum, Matthias Kuhnert, Claas Nendel, Eckart Priesack, Jörg Steidl, Michael Sommer, Thomas Pütz, Jan Vanderborght , Harry Vereecken, Evelyn Wallor, Tobias K.d. Weber, Martin Wegehenkel, Lutz Weihermüller, Horst H. Gerke
	15:30-16:00		
S14	16:00-16:15	Applications of data-driven models and machine-learning in agricultural water management: A comparative study	Silvio Gumiere (Université Laval, Canada), Matteo Camporese, Anna Botto, Jacques Gallichand
S14	16:15-16:30	Data assimilation aided land surface simulations for the future risk of droughts and fires in European forests	Lukas Strebel (Forschungszentrum Jülich GmbH), Heye Bogena, Harry Vereecken, Harrie-Jan Hendricks Franssen
S14	16:30-16:45	Study of Thermo-hydrological river-ground transfer processes in the context of permafrost environments – the Syrdakh study site in Central Yakutia (Siberia, Russia)	Christophe Grenier (LSCE, Saclay, Antoine Séjourné , Eric Pohl, Pavel Konstantinov, Alexander Fedorov, Albane Saintenov, Ivan Khristoforov, Laurent Orgogozo, François Costard
S14	16:45-17:00	Suspended load transport in small tropical catchments: data analysis and modelling	Amande Roque-Bernard (IPGP, Paris), Antoine Lucas, Eric Lajeunesse, Eric Gayer, Pascal Allemand, Céline Dessert

S14	17:30-17:15	Improved field-scale soil moisture estimation by assimilating cosmic ray neutron counts with the Noah-MP land surface model	Amol Patil (Universität Augsburg [Augsburg]), Benjamin Fersch, Harrie-Jan Hendricks Franssen, Harald Kunstmann
S14	17:15-17:30	Using manipulation experiments to calibrate the ORCHIDEE land surface model and improve the representation of the critical zone	Nina Raoult (LSCE, Gif-sur-Yvette), Philippe Peylin, Louis-Axel Edouard-Rambaut , Vladislav Bastrikov, The Orchidas Group
		PARALLEL SESSION: Room 3	
S3	14:00-14:15	A monitoring, reporting and verification framework combining remote sensing, ICOS data and crop modelling for estimating the components of the carbon budgets for croplands at plot scale over large areas	Eric Ceschia (CESBIO/INRAE), Ahmad Al Bitar, Ludovic Arnaud, Rémy Fieuzal, Gaétan Pique, Taeken Wijmer
S3	14:15-14:30	Assimilation of remote sensing data into a crop water balance model: impact of observation resolution	Chloé Ollivier (CESBIO, France), Luis Olivera-Guerra, Pierre Laluet, Yann Pageot, Vincent Rivalland, Olivier Merlin, Gilles Boulet
S3	14:30-14:45	Asymmetric responses of ecosystem productivity to rainfall anomalies vary inversely with mean annual rainfall over the conterminous United States	Amen Al-Yaari (Milieux Environnementaux, Transferts et Interactions dans les hydrosystèmes et les Sols Sorbonne Université), Jean Pierre Wigneron, Philippe Ciais, Markus Reichstein, Ashley Ballantyne, Jerome Ogée, Agnès Ducharne, Jennifer Swenson , Frédéric Frappart, Lei Fan, Lisa Wingate, Xiaojun Li Koen Hufkens, Alan Knapp
S3	14:45-15:00	Determinants of woody cover in a major island in the Mediterranean basin	Sara Simona Cipolla (Universita degli Studi di Cagliari [Cagliari]), Nicola Montaldo
S3	15:00-15:15	From Sensor to Real-Time Forecasts: Setup of a Cosmic-Ray Neutron Sensor Network for Data Assimilation and Optimization of High-Resolution Real-Time Predictions of Soil Moisture	Patrizia Ney (Institute of Bio- and Geosciences: Agrosphere (IBG-3), Forschungszentrum Jülich, 52425 Jülich, Germany), Alexandre Belleflamme, Maksim Iakunin, Niklas Wagner, Sebastian Bathiany, Pfeiffer Susanne, Juliane El Zohbi, Diana Rechid, Klaus Görden, Heye Bogena
S3	15:15-15:30	Estimating Biophysical Parameters on Agricultural Fields Using Polarimetric Decomposition Parameters of Sentinel-1	Katharina Harfenmeister (German Research Centre for Geosciences - Helmholtz-Centre Potsdam), Sibylle Itzerott, Cornelia Weltzien, Daniel Spengler
	15:30-16:00		
S3	16:00-16:15	Monitoring accurately land surface at kilometric-scale with an offline Land Data Assimilation System forced by a NWP system	Bertrand Bonan (CNRM, France), Clément Albergel, Adrien Napoly, Yongjun Zheng, Catherine Meurey, Jean-Christophe Calvet
S3	16:15-16:30	Spatial uncertainty assessment of prediction maps of the organic layer in forest soils using fused Sentinel-2 data	Carina Becker (Public Enterprise Sachsenforst, Unit site survey / soil monitoring / laboratory, Pirna; Eberhard Karls Universität Tübingen, Department of Geoscience, Chair of Soil Science and Geomorphology, Tübingen), Karsten Schmidt, Rainer Petzold, Felix Thomas, Ulrike Werban, Volker Hochschild, Thomas Scholten
S3	16:30-16:45	The INRAE Aqui network : an in-situ measurements site of soil moisture and vegetation properties for the validation of remotely-sensed observations	Jean Pierre Wigneron, François Demontoux, Dominique Guyon, Sylvia Dayau, Alain Kruszewski, Christophe Chipeaux, Christophe Moisy, Sébastien Lafont, Bertrand Ygorra, Xiaojun Li , Frédéric Frappart (ISPA, Bordeaux; LEGOS, Toulouse)
S4	16:45-17:00	Evaluating the impact of human and climate forcing on erosion in the Alpine Critical Zone over the last 10 000 years	William Rapuc (EDYTEM, Chambéry, France), Julien Bouchez, Pierre Sabatier, Jérôme Gaillardet, Fabien Arnaud
S4	17:30-17:15	Site matters - site-specific hydrology reveals intraspecific variability in stomatal conductance sensitivity of common European tree species at the TERENO-NE Hinnensee site	David Steger (Humboldt-Universität zu Berlin, Geography Department, Climate Geography, Berlin), Richard L. Peters, Theresa Blume, Alexander G. Hurley, Daniel Balanzategui, Daniel F. Balting, Ingo Heinrich

S4	17:15-17:30	Dual lake monitoring of two neighbored, varved lakes in northern Poland	Christin Lindemann (<i>German Research Centre for Geosciences - Helmholtz-Centre Potsdam</i>), Florian Ott, Birgit Plessen, Brian Brademann, Sylvia Pinkerneil, Markus J. Schwab, Dariusz Brykala, Piotr Gierszewski, Michał Fojutowski, Mirosław Błaszczewicz, Achim Brauer
	17:30-19:00	Poster sessions S2, S3, S4, S5, S14 (49 posters, 41 on site, 8 virtual)	
S2.1		COSMOS-Europe: A European network of Cosmic-Ray Neutron Soil Moisture Sensors	Heye Bogena (<i>Forschungszentrum Jülich GmbH</i>), Martin Schrön, Jannis Jakobi, Patrizia Ney, Marek Zreda, Mie Andreasen, David Boorman, Berk Mustafa Duygu, Miguel A. Eguibar-Galán, Benjamin Fersch, Josie Geris, María González Sanchis, Yann Kerr, Mengistu Zalalem, Paolo Nasta, Jerzy Nitychoruk, Sascha Oswald, Vassilios Pisinaras, Daniel Rasch, e Hami Said, Paul Schattan, Stefan Achleitner, Eduardo Albentosa-Hernández, Zuhail Akyürek, Theresa Blume, Antonio Del Campo, Katya Dimitrova-Petrova, John G. Evans, Frank Herrmann, Joost Iwema, Karsten Høgh Jensen, Harald Kunstmann, Majken Caroline Looms, Andreas Panagopoulos, Amol Patil, Daniel Power, Nunzio Romano, Rafael Rosolem, Sonia Seneviratne, Georg Weltin, Steffen Zacharias, Harry Vereecken
S1.2		Designing of a long term environmental observatory around an industrial project: Ex of Andra - Ope	Catherine Galy (<i>DRD/OPE, ANDRA, France</i>), Paul Olivier Redon, Aurélie Villeneuve, Sébastien Conil, Romain Perrier, Jean Patrick Verron
S2.3		Effects of climate change and management on mountain grasslands – observations on vegetation and water fluxes at the TERENO pre-Alpine observatory	Anne Schucknecht (<i>Karlsruhe Institute of Technology (KIT)</i>), Katrin Schneider, Rainer Gasche, Corina Baessler, Ralf Kiese
S2.4		Evaluation of the effects of climate change on the nitrogen balance of a grassland ecosystem	Thomas Pütz (<i>Forschungszentrum Jülich GmbH</i>), Mona Giraud, Jannis Groh, Jérôme Molénat, Nicolas Brüggemann, Harry Vereecken
S2.5		Local and seasonal climate change: the case of the Strengbach catchment over the last 35 years	Laurent Strohmenger (<i>ITES, Strasbourg</i>), Marie-Claire Pierret, Benjamin Belfort, Philippe Ackerer
S2.6		Monitoring water and energy fluxes in a karstic environment: the Larzac Observatory	Cédric Champollion (<i>Geosciences, Montpellier</i>), Nicolas Lemoigne, Erik Doerflinger, Sandrine Baudin
S2.7		Observil - A French network project of urban critical zone observatories	Fabrice Rodriguez (<i>Eau et Environnement, Université Gustave Eiffel, Nantes</i>), Jean Nabucet, Jules Kouadio, Béatrice Béchet, Ghassan Chebbo, Damien David, Vincent Guinot, Thierry Lebeau, Gislain Lipeme Kouyi, Valéry Masson, Anne Puissant, Yves Richard, Christophe Schwartz, Anaëlle Simonneau, Zahra Thomas, Karim Touil
S2.8		Reaping the power of citizen science for SES timelines: the case of Argonne LTSEr project	Anna Brisard (<i>HABITER, Reims</i>), Jon Marco Church, Alain Devos, Dominique Harmand, Jérôme Buridant, Gilles Déroche, Marie-Christine Jannin, Simon Gregoire
S2.9		The agricultural test site Wagna: ecological findings from 30 years of observation and its socio-economic implementation	Gernot Klammmler (<i>JR-AquaConSol, Graz</i>), Johann Fank
S2.10		The OZCAR Tree: a tool to visualize the scientific and institutional organization of the OZCAR French Critical Zone Observatories network	Jérôme Gaillardet (<i>IPGP, Paris</i>), Isabelle Braud, Francois Mercier, Sylvie Galle, Virginie Entringer

S2.11		What Controls Wildfires: Weather, Aridity or Vegetation?	<u>Yuquan Qu</u> (<i>Institute of Bio and Geosciences (Agrosphere, IBG-3), Research Center Jülich</i>), Carsten Montzka, Harry Vereecken
S2.12		Which recovery from acid rains in the Vosges Mountains after 30 years ?	<u>Marie-Noëlle Pons</u> (<i>LRGP, Nancy</i>), Etransoh Donatien Kouakou, Steve Pontvianne, François Guerold, Benoit Pollier, Arnaud Legout, Anne Poszwa
S3.1		Decennial geomorphic transport from archived time series digital elevation models: a cookbook for tropical and alpine environments	<u>Antoine Lucas</u> (<i>IPGP, Paris</i>), Eric Gayer
S3.2		Estimates of Land Surface Fluxes Combining the High Resolution Land Atmosphere Surface Parameters from Space (HOLAPS) Framework and Satellite Data	<u>Almudea García-García</u> (<i>Department of Remote Sensing, Helmholtz Centre for Environmental Research-UFZ, Leipzig</i>), Jiang Peng
S3.3		Estimating drainage of irrigated areas from a combined crop water balance modeling and remote sensing approach: first tests over the Algerri-Balaguer area where drainage is actually measured over thousand of hectares	<u>Pierre Lалуé</u> (<i>CESBIO, Toulouse</i>), Luis Enrique Olivera Guerra, Victor Altès Gaspar, Chloé Ollivier, Vincent Rivalland, Gilles Boulet, Josep Maria Villar, Olivier Merlin
S3.4		First Look at HYPSTAR: A New Hyperspectral Radiometer Integrated in Automated Network for Validation of All VNIR and SWIR Optical Satellite Missions	<u>Mohammadmehdi Saberioon</u> (<i>German Research Centre for Geosciences - Helmholtz-Centre Potsdam</i>), Daniel Spengler, Christian Hohmann, Sibylle Itzerott
S3.5		Monitoring the vegetation kinetics after clear cuts due to bark beetle invasion	<u>Marie-Noëlle Pons</u> (<i>LRGP, Nancy</i>), Anne Poszwa
S3.6		Precision agriculture informed by autonomous UAS	<u>Carsten Montzka</u> (<i>Forschuszentrum Jülich</i>), Jordan Bates, François Jonard, Harry Vereecken
S3.7		AgriSens - DEMMIN 4.0 Use of remote sensing technologies for digitization in crop production	<u>Daniel Spengler</u> (<i>GeoForschungsZentrum - Helmholtz-Zentrum Potsdam</i>), Falk Boettcher, Erik Borg, Stefan Eike Dobers, Heike Gerighausen, Ursula Gessner, Katharina Harfenmeister, Friederike Klan, Mike Teucher, Sina Truckenbrodt, Christopher Conrad
S3.8		Application of Remote Sensing Technologies for Irrigation Strategies in Agriculture	<u>Thomas Piernicke</u> (<i>GeoForschungsZentrum - Helmholtz-Zentrum Potsdam</i>)
S3.9		Land surfaces services, tools, products at Centre of Topography of the Oceans and the Hydrosphere	<u>Frédéric Frappart</u> (<i>LEGOS, Toulouse</i>), Fabien Blarel, Denis Blumstein, Fernando Niño, Fabien Léger, Florence Birol, Rosemary Morrow
S3.10		Potential use of high-resolution weather radar data in agriculture - A study on weather radar of FURUNO and Radolan for DEMMIN	<u>Alice Künzel</u> (<i>German Research Centre for Geosciences (GFZ), Helmholtz Centre Potsdam</i>), Christian Hohmann, Christian Bobrich, Gerd Teschke, Daniel Spengler
S3.11		Surface energy balance and flux partitioning of annual crops in southwestern France	<u>Oluwakemi Dare-Idowu</u> (<i>CESBIO, Toulouse</i>), Lionel Jarlan, Joan R. Cuxart, Vincent Rivalland, Tiphaine Tallec, Eric Ceschia, Bartosz Zawilski, Aurore Brut
S4.1		Evidence of chlordecone resurrection by glyphosate using Paleo-Critical Zone approach in French West Indies	<u>Pierre Sabatier</u> (<i>EDYTEM, Chambéry</i>), Charles Mottes, Nathalie Cottin, Olivier Evrard, Irina Comte, Christine Piot, Bastien Gay, Fabien Arnaud, Irène Lefevre, Anne-Lise Davelle, Landry Deffontaines, Joanne Plet, Magalie Lesueur-Jannoyer, Jérôme Poulenard
S4.2		Fluxes and temporal trends of historical and emerging metallic contaminants as proxies of the retro-observation and prediction of Critical Zone trajectories	<u>Thomas Gardes</u> (<i>M2C, Rouen</i>), Alexandra Coynel, Yoann Copard, Florence Portet-Koltalo, Julien Deloffre, Matthieu Fournier, Cécile Bossy, Melina Abdou, Sidonie Révillon, Maxime Chastanet, Maxime Debret

S4.3		Hyperspectral imaging: an innovative tool to reconstruct past Critical Zone evolution	Maxime Debret (M2C, Rouen), Kevin Jacq, Jeanne Auboiron, Kevin Humbert, William Rapuc, Florence Portet-Koltalo, Samuel Toucanne, Bernard Fanget, Pierre Sabatier, Fabien Arnaud, Yoann Copard
S4.4		Identifying wet conditions in past geological age in the Atacama Desert through oxygen isotope composition of HCl-extractable phosphate ($\delta^{18}\text{OHCl-P}$) proxy in depth	Xiaolei Sun (Agrosphere (IBG-3), Institute of Bio- and Geosciences, Forschungszentrum Jülich GmbH), Moradi Ghazal, Federica Tamburini, Ramona Morchen, Martin Melles, Volker Wennrich, Erwin Klumpp, Wulf Amelung, Roland Bol
S4.5		Machine Learning and Deep Learning for retro-observation of Critical Zone processes with hyperspectral imaging	Kévin Jacq (M2C, Rouen), Kevin Humbert, Dô Ambroise Judicaël Sanon, Jeanne Auboiron, Thomas Gardes, Maxime Debret, Bernard Fanget, Alexandre Benoit, Didier Coquin Pierre Sabatier, Florence Portet-Koltalo, Yves Perrette, Fabien Arnaud
S4.6		Methodological development for the analyses of organic matter in secondary carbonates. Case study in urban areas (Paris, Lyon; France)	Julia Garagnon (LSCE, Gif-sur-Yvette), Yves Perrette, Emmanuel Naffrechoux Edwige Pons-Branchu
S4.7		From water into sediment - tracing freshwater cyanobacteria via DNA analyses	Ebuka Nwosu (German Research Centre for Geosciences - Helmholtz-Centre Potsdam), Patricia Roeser, Sizhong Yang, Alexander Bartholomäus, Lars Ganzert, Sylvia Pinkerneil, Olaf Dellwig, Elke Dittmann, Achim Brauer, Dirk Wagner, Susanne Liebner
S4.8		Seasonal variability of Sr and Nd isotopes in Amazon suspended matter as an analog for paleoclimate South America Monsoon System reconstruction	Jean-Sébastien Moquet (ISTO, Orléans), Tristan Rousseau, Martin Roddaz, Julien Bouchez, William Santini, Elisa Armijos, Pascal Fraizy, Roberto Santos, Karina Hattingh
S4.9		Unexpected signals of air pollution and differentiated response of pine and oak to climate change in rural Northeastern Germany	Gerhard Helle (GFZ German Research Centre for Geosciences, Section 4.3 Climate Dynamics and Landscape Evolution, Potsdam), Daniel Balanzategui, Ingo Heinrich, Matthias Schwabe, Peter Stueve, Ralf Wagner
S5.1		Geophysical, geochemical and modelling approaches to better understand the transport of an artificial tracer through the hyporheic zone	Véronique Durand (GEOPS, Orsay), Clémence Houzé, Claude Mügler, Marc Pessel, Gael Monvoisin, Christelle Courbet
S5.2		Groundwater resources: what can we learn from long-term environmental tracer chronicles ?	Thierry Labasque (Géosciences, Rennes), Barbara Yvard, Eliot Chatton, Virginie Vergnaud, Luc Aquilina
S5.3		Impact of topography on potential evapotranspiration	David Luttenauer (ITES, Strasbourg), Sylvain Weill, Philippe Ackerer
S5.4		Is a simple model based on two mixing reservoirs able to reproduce the intra-annual dynamics of DOC and NO ₃ stream concentrations in an agricultural headwater catchment?	Laurent Strohmenger (ITES, Strasbourg), Ophélie Fovet, Markus Hrachowitz, Jordy Salmon-Monviola, Chantal Gascuel-Odoux
S5.5		Modeling transfer of pesticides and their degradation products in shallow groundwater by taking into account variable residence times	Samira Ahrouch (RiverLy, Lyon), Véronique Gouy, Nadia Carluer
S5.6		Multidisciplinary approach to understand the hydrological processes that govern a riparian wetland. Case study of the Jarcy site (Essonne, France)	Adrien Renaud (GEOPS, Saclay), Véronique Durand, Claude Mügler, Marc Pessel, Emmanuel Léger
S5.7		Stratified groundwater flow contribution to streams modulates seasonal variations of streamwater transit times	Jean Marçais (RiverLy, INRAE, Lyon), Louis Derry, Luca Guillaumot, Luc Aquilina, Jean-Raynald De Dreuzy

S5.8		The benefits of superconducting gravimetry to assess the water storage dynamics in the upper part of a headwater granitic catchment	<u>Quentin Chaffaut</u> (<i>ITES, Strasbourg</i>), Jacques Hinderer, Frederic Masson, Daniel Viville, Sylvain Pasquet, Jean-Paul Boy, Jean-Daniel Bernard, Nolwenn Lesparre, Marie-Claire Pierret
S5.9		Tracing and Closing the water balance in the critical zone	<u>Paolo Benettin</u> (<i>Laboratory of ecohydrology (ECHO), École polytechnique fédérale de Lausanne, Lausanne, Switzerland</i>)
S5.10		Unraveling catchment-scale water table levels in remote tropical watersheds by means of non-destructive geophysics	<u>Sylvain Pasquet</u> (<i>IPGP, Paris</i>), Jean Marçais, Jordan Hayes, Peter Sak, Lin Ma, Jérôme Gaillardet
S5.11		Vapor flow control in dune sediments under dry bare soil conditions	<u>Claus Kohfahl</u> (<i>Spanish Geological Survey (IGME)</i>), Maarten Saaltink, Fernando Ruiz Bermudo
S5.12		Water storage depletion during three drought years (2018-2020): monitoring with a superconducting gravimeter in TERENO north-eastern Germany	<u>Andreas Güntner</u> (<i>German Research Centre for Geosciences - Helmholtz-Centre Potsdam</i>), Marvin Reich, Daniel Rasche, Theresa Blume, Stephan Schröder
S5.13		Recharge of shallow groundwater in weathered granitic agricultural catchments	<u>Ophelie Fovet</u> (<i>SAS, Rennes</i>), Laurent Ruiz, Lise Andro, Mikael Faucheux, Zahra Thomas
S14.1		A practical approach for the joint assimilation of diverse data types	<u>Alexandre Pryet</u> (<i>ENSEGID, Bordeaux</i>)
S14.2		Implementation of the EU SoilHydroGrids data set into the Noah-MP land surface model	<u>Benjamin Fersch</u> (<i>Institut für Meteorologie und Klimaforschung - Atmosphärische Umweltforschung</i>), Amol Patil, Harald Kunstmann
S14.3		Joint assimilation of streamflow and groundwater level data to improve low-flow forecasting: an assessment over 107 French catchments	<u>Antoine Pelletier</u> (<i>Ecole des Ponts Paritech; HYCAR, Antony</i>), Vazken Andréassian
S14.4		Mixing the RiverLab and Deep Learning for augmenting Critical Zone monitoring	<u>Antoine Dolant</u> (<i>Extralab, France</i>), Arnaud Blanchouin, Romane Nespoulet, Laure Cordier, Paul Flourey

WEDNESDAY OCTOBER 6 2021			
Session	Time_Slot	Title	Authors (underlined: presenter), only the affiliation of the presenter is provided In red: virtual presentation
		PLENARY SESSION: AMPHITHEATER	
S6	09:00-09:30	Title to be defined	Markus Reinstein (<i>UFZ, Germany</i>)
S7	09:30-10:00	Conceptualising and designing a pan-European environmental data infrastructure using the example of the eLTER Research Infrastructure	Christoph Wohner (<i>Environmental Agency, Austria</i>), Alessandro Oggioni, Sue Rennie, Hanna Koivula, Vladan Minic, Johannes Peterseil, John Watkins, Mike Brown
S8	10:00-10:30	Monitoring and modelling water and solid transport during extreme events in Mediterranean mountain areas	Estela Nadal-Romero (<i>Instituto Pirenaico de Ecología, IPE-CSIC, Zaragoza, Spain</i>)
	10:30-11:00	COFFEE BREAK	
S9	11:00-11:30	And what should we measure today? New approaches for observing and simulating surface water groundwater interactions	Philip Brunner (<i>Laboratory of Hydrogeological Processes, Centre for Hydrogeology and Geothermics, (CHYN), University of Neuchatel (Unine)</i>)
S10	11:30-12:00	Title to be defined	Philippe Ciais (<i>LSCE, Orsay, France</i>)
S12	12:00-12:30	Temporary streams in the 21st century - current scientific and management challenges	Vicenç Vicens (<i>Catalan Institute for Water Research (ICRA), Spain</i>)
	12:30-14:00	LUNCH	
S6	14:00-14:15	Bridging ecohydrology and geochemistry with a process-based model-data approach: a link between flow paths, root uptake and weathering patterns	Sylvain Kuppel (<i>GET, Toulouse</i>), Yves Godderis, Jean Riotte, Laurent Ruiz, Isabelle Braud, Muddu Sekhar
S6	14:15-14:30	Deforestation alters dissolved organic carbon and sulfate relationships in mountainous headwater catchments	Qiqi Wang (<i>Institute of Bio- and Geosciences, Agrosphere (IBG-3), Forschungszentrum Juelich, Germany</i>), Kerri-Leigh Robinson, Heye Bogena, Yuquan Qu, Sara Bauke, Albert Tietema, Harry Vereecken, Roland Bol
S6	14:30-14:45	From water rock-interaction to methanogenesis: How climate induced raise of groundwater inputs might favor CH4 fluxes in the mid latitude/altitude Frasne peatland, Jura Mountains, France	Alexandre Lhosmot (<i>Chrono-Environnement, Besançon</i>), Jean Sébastien Moquet, Laure Gandois, Julien Bouchez, Marc Steinmann, Véronique Lavastre, Vanessa Stefani, Anne Boetsch, Philippe Binet, Marie-Laure Toussaint, Jérôme Gaillardet, Guillaume Bertrand
S6	14:45-15:00	Long-term trajectories of riverine nutrient concentrations and ratios in a large-sample study across Germany and France	Pia Ebeling (<i>Department of Hydrogeology [UFZ Leipzig]</i>), Rémi Dupas, Andreas Musolff
S6	15:00-15:15	Looking for feedback loops in the critical zone	Christophe Peugeot (<i>HSM, Montpellier</i>), Valentin Wendling, Manuela Grippa, Abdramane Ba, Stéphane Binet, Laurie Boithias, Isabelle Braud, Cédric Champollion, Philippe Choler, Agnès Ducharne, Julien Fouché, Anne Johannet, Didier Josselin, Sylvain Kuppel, Cédric Legout, Marie-Claire Pierret, Anne Probst, Jean-Luc Probst, Sabine Sauvage, Philippe Schoeneich, Virginie Sellier, Anaëlle Simonneau, Vincent Simonneaux, Théo Vischel
S6	15:15-15:30	Modification of the composition of dissolved organic matter during rain events; in search of genericity	Laurent Jeanneau (<i>Géosciences, Rennes</i>), Ophélie Fovet, Mikael Faucheux, Marie-Claire Pierret, Solenn Cotel, Céline Dessert, Anne Probst, Gérard Gruau, Manon Lagacherie, Jérôme Molénat, Marine Liotaud
	15:30-16:00	COFFEE BREAK	
S6	16:00-16:15	Spatial and temporal variability in concentration-discharge relationships obtained from high-frequency measurements	Andreas Musolff (<i>Department of Hydrogeology [UFZ Leipzig]</i>), Rémi Dupas, Camille Minaudo, Jan H. Fleckenstein, Michael Rode, Carolin Winter, Karsten Rinke

S6	16:15-16:30	Spatiotemporal dynamics of natural nanoparticles and colloids in European forested headwater catchments	Heike Schimmel (<i>University of Bonn, Germany</i>), Nina Gottselig, Wulf Amelung, Melanie Braun
S6	16:30-16:45	Three years of stream network hourly dissolved oxygen: hot spots, hot moments, synchrony, and scaling	Jacob Diamond (<i>RiverLy, Lyon</i>), Florentina Moatar, Gilles Pinay, Matthew Cohen, Susana Bernal, David Lewis,
S6	16:45-17:00	Upscaling from field-scale N balance to catchment water quality: spatially differentiated biogeochemical processes and mitigation implications in agricultural catchment	Xiaoqiang Yang (<i>UFZ Helmholtz Centre for Environmental Research</i>), Seifeddine Jomaa, Ines Merbach, Doerthe Tetzlaff, Chris Soulsby, Dietrich Borchardt, Michael Rode
S6	17:30-17:15	Carbon dioxide emissions from oxidative weathering: size, source and controls	Tobias Roylands (<i>Durham University, UK</i>), Guillaume Soulet, Robert G. Hilton, Mark H. Garnett, Sébastien Klotz, Caroline Le Bouteiller
S6	17:15-17:30	Short-term impacts of forest clear-cut on soil structure, organic matter composition and nutrient turnover	Nina Siebers (<i>Agrosphere Institute, Institute of Bio- and Geosciences (IBG-3), Forschungszentrum Jülich, Germany</i>), Sara L. Bauke, Jens Krus
		PARALLEL SESSION: Room 2	
S8	14:00-14:15	Analyzing the dynamics of suspended sediment fluxes with a multi-source soil erosion / sediment transport model	Magdalena Uber (<i>Federal Institute of Hydrology, Germany</i>), Guillaume Nord, Cédric Legout, Luis Cea
S8	14:15-14:30	Exploring the relations between sequential droughts and stream nitrogen dynamics in central Germany through catchment-scale mechanistic modelling	Xiangqian Zhou (<i>Department of Aquatic Ecosystem Analysis and Management, Helmholtz Centre for Environmental Research-UFZ, Magdeburg, Germany</i>), Seifeddine Jomaa, Xiaoqiang Yang, Ralf Merz, Yanping Wang, Michael Rode
S8	14:30-14:45	Real-time monitoring of sediment transport during flood events	Anne Pallarès (<i>Icube, Strasbourg</i>), Philippe Schmitt, Gwenaël Pallarès, Wilfried Uhring
S8	14:45-15:00	Seismic monitoring of precipitation, river flow and bedload transport	Maarten Bakker (<i>IGE, Grenoble</i>), Cédric Legout, Guillaume Nord, Florent Gimbert, Brice Boudevillain, Alain Recking
S8	15:00-15:15	What shapes water quality during and after a multi-year summer drought?	Carolin Winter, Tam V. Nguyen, Andreas Musolff, Stefanie R. Lutz, Jan H. Fleckenstein (<i>Department of Hydrogeology [UFZ Leipzig]</i>)
S8	15:15-15:30	Hydrological flood processes in Cévennes mountains : mass transfer or pressure transfer?	Christophe Bouvier (<i>HSM, Montpellier</i>), Pierre-Alain Ayrat , Pascal Brunet
	15:30-16:00		
S7	16:00-16:15	How to turn kilos of mud into megabytes of data? 10 years of efforts in curating lake sediment cores and their associated results	Fabien Arnaud (<i>EDYTEM, Chambéry</i>), Cécile Pignol, Bruno Galabertier, Xavier Crosta, Isabelle Billy, Elodie Godinho, Karim Bernardet, Pierre Sabatier, Anne-Lise Develle, Rosalie Bruel, Penguen Julien, Pascal Calvat, Pierre Stéphan, Mathias Rouan
S7	16:15-16:30	Integrated framework for automated quality assessment and quality control of TERENO sensor data	Tobias Korf, Dirk Ecker, Jürgen Sorg, Ralf Kunkel (<i>Forschungszentrum Jülich GmbH</i>)
S7	16:30-16:45	Observatory View - Common Data Service for Cross-Center Activities	Jan Bumberger (<i>Helmholtz Centre for Environmental Research – UFZ</i>), Christian Schulz, Martin Schrön, Hannes Mollenhauer, Nils Brinckmann, Tobias Weiß, Marc Hanisch, Martin Hammitzsch, Ralf Kunkel, Thomas Schnicke
S7	16:45-17:00	BDOH, an open-source and interoperable application for the storage, management and publication of long-term hydrological data	Flora Branger (<i>RiverLy, Lyon</i>), Fabien Thollet, Nicolas Raidelet, Adrien Tessanne, Guillaume Perreal, Nicolas Champseix, Taquyedine Zegaoui
S7	17:30-17:15	Manage and distribute data in a french environment observatory: the example of OSU OREME and the KARST observatory network	Juliette Fabre (<i>OSU OREME, Montpellier</i>), Olivier Lobry

S7	17:15-17:30	Playing « OGC SensorThings API Part 1 : Sensing » with several French research organizations and one research infrastructure	Grellet Sylvain (BRGM, Orléans), Mario Adam, Véronique Chaffard, Charly Cousot, Hervé Squidant
		PARALLEL SESSION: Room 3	
S9	14:00-14:15	Groundwater contribution to thermal regime of the rivers: investigation on a small, forested stream on sandstone soil	Paul Bois (ENGEEES, Strasbourg), Jean-Nicolas Beisel, Agnès Rivière
S9	14:15-14:30	Groundwater management of the coastal aquifer system of the Arborea plain, Sardinia (Italy): from a hydrogeological model to a quantitative 3D numerical groundwater model	Manon Lincker (ITES, Strasbourg), Gerhard Schafer, Antonio Sessini, Alberto Carletti, Giorgio Ghiglieri, Pier Paolo Roggero
S9	14:30-14:45	In-situ biogeochemical response to oxygen delivery in a fractured-bedrock aquifer: insights from a reactive Push-Pull test	Ivan-David Osorio-Leon (Geosciences, Rennes), Mélissa Garry, Camille Bouchez, Julien Farasin, Eliot Chatton, Thierry Labasque, Nicolas Lavenant, Francesco Gomez, Olivier Bochet, Laurent Longuevergne, Alexis Dufresne, Tanguy Le Borgne
S9	14:45-15:00	Study of parameters controlling heat transfer in a shallow aquifer of the Strengbach catchment	Daniel Moreno Martin (ITES, Strasbourg), Philippe Ackerer, Daniel Viville, Fred Delay, Philippe Négrel, Francois Chabaux
S10	15:00-15:15	Impacts of drought on the Water Use Efficiency of European Ecosystems	Christian Poppe (IBG3, Agrosphere, Research Centre Jülich), Bibi Naz, Roland Baatz, Harry Vereecken
S10	15:15-15:30	Modelling carbon dioxide fluxes in the Arctic Critical Zone: a data-driven approach	Marta Magnani (Institute of Geoscience and Earth Resources - National Council of Research -Italy), Ilaria Baneschi, Mariasilvia Giamberini, Brunella Raco, Antonello Provenzale
	15:30-16:00		
S10	16:00-16:15	The role of irrigation expansion on historical climate change during the last 115 years: insights from CMIP6	Amen Al-Yaari (METIS, Paris), Agnès Ducharne, Thiery Wim, Frederique Cheruy, David Lawrence
S10	16:15-16:30	Upscaling of detailed root hydraulic models to effective root water uptake modules	Jan Vanderborcht (Forschungszentrum Jülich IBG-3: Agrosphere), Mathieu Javaux, Daniel Leitner, Andrea Schnepf
S10	16:30-16:45	Modelling the Earth System from the groundwater to the atmosphere for better heat wave simulations and assessing the interannual persistence of drought conditions	Carl Hartick (Research Centre Jülich, IBG3- Agrosphere), Carina Furusho, Klaus Goergen, Stefan Kollet
S12	16:45-17:00	Longitudinal streamflow intermittency monitoring and analysis in a meso-scale catchment with temperate climate	Amelie Herzog (University of Freiburg, Chair of Environmental Hydrological Systems, Freiburg im Breisgau), Kerstin Stahl, Veit Blauhut, Tobias Schuetz
S12	17:30-17:15	Spatial and temporal dynamics of the state of intermittent streams in a pre-Alpine headwater catchment	Rick Assendelft, Iija Van Meerveld (Department of Geography, University of Zurich)
S12	17:15-17:30	Understanding key factors controlling the duration of river flow intermittence: Case of Burkina Faso in West Africa	Axel Patindé Belemtougri (Laboratoire Eaux HydroSystèmes et Agriculture (LEHSA), Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE), Ouagadougou, Burkina Faso), Agnès Ducharne, Tazen Fowe, Ludovic Oudin, Harouna Karambiri
	17:30-19:00	Poster sessions S6, S7, S8, S9, S10, S12 (47 Posters, 37 on site, 10 virtual)	

S6.1		Alder-induced acceleration of nitrogen cycling in permafrost soils	Elisabeth Ramm (<i>Institute of Meteorology and Climate Research - Atmospheric Environmental Research (IMK-IFU), Karlsruhe Institute of Technology (KIT)</i>), Chunyan Liu, Carsten W. Mueller, Silvia Gschwendtner, Hongyu Yue, Ulrike Ostler, Michael Schloter, Heinz Rennenberg, Michael Dannenmann
S6.2		Biogeochemical cycle of radium in forested soils	Sophie Rihs (<i>ITES, Strasbourg</i>), Eric Lascar, Laurent Pourcelot, Philippe Calmon, Paul Olivier Redon, Marie-Pierre Turpault, Eric Pelt, Francois Chabaux
S6.3		High-resolution phosphorus monitoring in an agricultural headwater catchment (Kervidy-Naizin)	Rémi Dupas (<i>SAS, Rennes</i>), Mikael Fauchoux, Yannick Hamon, Andrés Casanova, Ophélie Fovet, Chantal Gascuel-Odoux
S6.4		Inferring direct water exchange in the regolith-tree flowpath by using $\delta^2\text{H}$ and $\delta^{18}\text{O}$: a case study in the Weierbach experimental catchment, Luxembourg	Alessandro Montemagno (<i>Wageningen University and Research, The Netherlands</i>), Christophe Hissler, Victor Bense, Adriaan J. Teuling, Laurent Pfister
S6.5		Iron stocks, isotopy and dynamics in the Wüstebach catchment	Anne E. Berns (<i>Forschungszentrum Jülich GmbH</i>), Nina Gottselig, Charlotte Seckfort, Dominik Hezel, Carsten Münker, Wulf Amelung, Roland Bol, Bei Wu
S6.6		Is there still something to eat for trees in the soils of the Strengbach catchment ?	Marie-Claire Pierret (<i>ITES, Strasbourg</i>), Matthias Oursin, Emilie Beaulieu, Damien Daval, Arnaud Legout
S6.7		Joint exploration of agriculture-water quality links through the hybrid serious game Exp'Eau	Isabelle Charpentier (<i>iCUBE, Strasbourg</i>), Hugo Kelhetter, Daniil Kudriashov, Hélène Blanchoud, Mathieu Bonnefond, Véronique Gouy, Christophe Piscart, Olivier Ragueneau, Sébastien Salvador Blanes, Olivier Barreteau
S6.8		Long-term drought effects on spruce forests in a low mountain range of Germany – crossing the tipping point	Nicolas Brueggemann (<i>Forschungszentrum Jülich, IBG-3</i>), Marius Schmidt, Alexander Graf, Jordan Bates, Bagher Bayat, Nils Becker, Heye Bogena, Daniel Dolfus 1, Jannis Jakobi, François Jonard, Carsten Montzka, Youri Rothfuss, Andreas Tewes, Harry Vereecken
S6.9		Micro-topographical structures influence DOC mobilization and quality in a small headwater catchment	Katharina Blaurock (<i>Department of Hydrology, University of Bayreuth</i>), Phil Garthen, Benjamin Gilfedder, Jan Fleckenstein, Stefan Peiffer 1, Luisa Hopp
S6.10		Prewinter nitrogen pool as indicator of nitrate pressure at agricultural subsurface drained catchment	Hocine Henine (<i>HYCAR, Antony</i>), Chelil Samy, Alban De Lavenne, Julien Tournebize
S6.11		Rapid but fleeting changes in seepage water carbon and nitrogen in the wüstebach catchment after clear-cutting	Ziyi Liang (<i>Forschungszentrum Jülich GmbH</i>), Louise Hain, Roland Bol, Harry Vereecken, Thomas Pütz
S6.12		Rare Earth Elements (REE) to identify the origin of water uptaken by trees. A case study in the Weierbach Experimental Catchment, Luxembourg	Christophe Hissler (<i>CAT/ENVISION/ERIN/Luxembourg Institute of Science and Technology - Belvaux</i>), Loïc Martin, Alessandro Montemagno, Laurent Gourdol, Arnaud Legout
S6.13		Silica biogeochemical cycle modeling over the 25 last years in a forest catchment (Strengbach, France)	Emilie Beaulieu (<i>ITES, Strasbourg</i>), Marie-Claire Pierret, Arnaud Legout, Fabrice Fraysse, Quentin Laprovote, Geoffroy Lenoir, Yves Godderis
S6.14		The interaction of organic and geogenic nutrient cycles	David Uhlig (<i>Forschungszentrum Jülich GmbH</i>), Friedhelm Von Blanckenburg
S6.15		Towards a better identification of dissolved organic matter from diffuse sources: comparative study between watercourse and soil leachate to search for specific markers	Amine Boukra (<i>RiverLy, Lyon</i>), Matthieu Masson, Corinne Brosse-Quilgars, Loïc Richard, Mahaut Sourzac, Parlanti Edith, Cécile Miège
S6.16		Understanding the behavior of the Basse de Courbeligne (Vosges, North-East France)	Marie-Noëlle Pons (<i>LRGP, Nancy</i>), Sébastien Legrand, Manon Grange, Steve Pontvianne, Sylvain Leblond, Benoit Pollier, Arnaud Legout, Anne Poszwa

S6.17		Atmospheric contribution to cations cyclin in hifghly weathered catchment, Guadeloupe	<u>Céline Dessert</u> (<i>IPGP, Paris</i>), Marc Benedetti, Alain Rousteau, Eric Lajeunesse
S6.18		Hydrochemical behavior of a multi-lithological karst hydrosystem during flood events in the French Pyrenees Mountains	<u>Francesco Ulloa Cedamanos</u> (<i>LEFE, Toulouse</i>), Anne Probst, Jean-Luc Probst
S6.19		Lithological Influences on Mineral Nutrient Production and Soil Formation in Agricultural Karst Critical Zones	<u>Aminu Lawal</u> (<i>School of Earth Sciences, University of Bristol, UK, BS8 1RJ</i>), H.I. Buss, S.m. Green, Z. Song, N.p. Nikolaidis
S6.20		N2O budget from 10 site-years measurement on two crop fields in southwestern France: impact of agricultural practices and calculation methodology	Laurent Bigaignon, Valérie Le Dantec, Claire Delon, Bartosz Zawilski, Franck Granouillac, Nicole Claverie, Patrick Mordelet, Aurore Brut, Ceschia Eric, Rémy Fieuzal, Baptiste Lemaire, <u>Tiphaine Tallec</u> (<i>CESBIO, Toulouse</i>)
S6.21		Sensitivity of d13C-DIC dynamics to riparian denitrification in a small agricultural catchment (Orgeval, France)	<u>Sophie Guillon</u> (<i>Centre de Geosciences, Fontainebleau</i>), Jean-Marie Mouchel, Tingting Geng
S6.22		Stream metabolism estimated from high frequency dissolved oxygen monitoring in 3 French headwater catchments	<u>Sophie Guillon</u> (<i>Centre de Geosciences, Fontainebleau</i>), Justine Uwoduhawe, Alexis Groleau, Ophélie Fovet, Rémi Dupas, Marie-Claire Pierret
S7.1		Bayesian modelling of water resource stress and drought monitoring in southeastern France	<u>Hadrien Di Costanzo</u> (<i>ESPACE, Avignon</i>), Philippe Martin
S7.2		Implementing the FAIR principles of findability and interoperability for data from the French OZCAR critical observatory network: the Theia/OZCAR information system	<u>Charly Coussot</u> (<i>OSUG, Grenoble</i>), <u>Véronique Chaffard</u> (<i>IGE, Grenoble</i>), Isabelle Braud, Sylvie Galle, Rémi Cailletaud
S7.3		The vertical structure of the Critical Zone – concepts and vocabulary	<u>Philippe Schoeneich</u> (<i>PACTE, Grenoble</i>)
S8.1		Comparison of hydrosedimentary signatures of catchments from the French Critical Zone network	<u>Cédric Legout</u> (<i>IGE, Grenoble</i>), Fabien Sève, Caroline Le Bouteiller, Guillaume Nord, Laurie Boithias, Flora Branger, Benoît Camenen, Guillaume Evin, Mikael Fauchoux, Ophélie Fovet, Manuela Grippa Yannick Hamon, Eric Lajeunesse, Jérôme Le Coz, Jean-Michel Martinez, Jean Sébastien Moque, Julien Némery, Anne Probst, Jean-Luc Probst, Damien Raclot, Olivier Ribolzi, Sébastien Salvador Blanes, Anaëlle Simonneau, William Santini, Vincent Stubbe, Fabien Thollet, Pierre Vanhooydonck
S8.2		Development of an acoustic model of noise generated by bedload in river	<u>Mohamad Nasr</u> (<i>ETNA, Grenoble</i>), Thomas Geay, Sébastien Zanker, Alain Recking
S8.3		Impact of a severe drought on the nitrogen cycling in a meso-scale catchment: Insights from hydrochemical and stable isotope investigations	<u>Christin Muller</u> (<i>Helmholtz Centre for Environmental Research - UFZ, Department Catchment Hydrology</i>), Ronald Krieg, Ralf Merz, Kay Knöller
S8.4		Improving simulation of extreme summer floods by a parsimonious rainfall-runoff model	<u>Paul C. Astagneau</u> (<i>HYCAR, Antony</i>), François Bourgin, Vazken Andréassian, Charles Perrin
S8.5		Lysimeters: tools for studying soil water dynamics during intense precipitation	<u>Antoine Sobaga</u> (<i>Laboratoire de Géologie, ENS Paris</i>), Florence Habets, Bertrand Decharme, Christine Delire, Noële Enjelvin, Catherine Galy, Paul Olivier Redon
S8.6		Monitoring the Critical Zone for sustainable management of water resource in upper watersheds. The case of the Thiem watershed, windward coast of New Caledonia	<u>Pierre Genthon</u> (<i>IRD, Nouméa</i>), Caroline Tramier, Quentin Delevienne, Jean-Jérôme Cassan, Pascal Dumas

S8.7		Partial forest harvesting effects on erosion flux in a headwater catchment (Strengbach catchment, France)	<u>Solenn Cotel</u> (<i>ITES, Strasbourg</i>), Daniel Viville, Alain Hernandez, Phillippe Ackerer, Marie-Claire Pierret
S8.8		Testing the seismic noise generated by sediment pulses on steep slope: an experimental study	<u>Marco Piantini</u> (<i>ETNA, Grenoble</i>), Florent Gimbert, Alain Recking, Hervé Bellot
S8.9		Territorial modeling of types of plowing in the Affon-Donga watershed, Benin	<u>Gbadamassi Fousséni</u> (<i>Laboratoire de Géosciences de l'Environnement et de Cartographie (LaGECa), Benin</i>), Vodounou Jean Bosco, Gbadamassi Massouhoudou
S9.1		Dissolved gas mapping reveals groundwater discharge into a coastal freshwater pond	<u>Eliot Chatton</u> (<i>OSUR, Rennes</i>), Thierry Labasque, Laurent Longuevergne
S9.2		Long-term assessment of water and heat stream-aquifer exchanges in Avenelles Critical Zone Observatory, France (2013-2020)	<u>Agnès Rivière</u> (<i>Centre de Géosciences, Fontainebleau</i>), Nicolas Flipo, Karina Cucchi, Patrick Goblet, Pierre Seraphin, Asma Berrhouma, Deniz Kilic, Aurélien Baudin
S9.3		Spatio-temporal and comparative analysis of the behavior of the mio-pliocene aquifer in relation to rainfall on the Allada and Sakété highlands in southern Benin	<u>Benito Didier Tokpe Koukpohounsi</u> (<i>Université d'Abomey-Calavi/Institut National de l'Eau, Benin</i>), Nicaise Yalo, Jean-Michel Vouillamoz, Fabrice Lawson, Christian Alle, D.o. Valerie Kotchoni, Bio Guidah Chabi, Aoulatou Alassane Zakari, Touré Ousmane Boukari, Abdoukarim Alassane, Daouda Mama
S9.4		Spatio-temporal variations of water sources and mixing in a floodplain	<u>Guilherme Nogueira</u> (<i>Helmholtz Centre for Environmental Research - UFZ (GERMANY)</i>), Christian Schmidt, Daniel Partington, Philip Brunner, Jan Fleckenstein
S9.5		A new experiment to assess the impact of groundwater table level variations on petroleum hydrocarbon pollutants remobilization (LNAPL) in the climate change context	<u>Amélie Cavelan</u> (<i>LIEC, Nancy</i>), Pierre Faure, Fabrice Golfier, Anne-Julie Tinet, Constantin Oltéan, Stéfan Colombano, Hossein Davarzani, Jacques Deparis, Catherine Lorgeoux, Noële Enjelvin
S10.1		CLM-APPLE: A Perennial Plant Functional Type for the Community Land Model (CLM5)	<u>Olga Dombrowski</u> (<i>Agrosphere (IBG-3), Institute of Bio- and Geosciences, Forschungszentrum Jülich, 52425 Jülich, Germany</i>), Cosimo Brogi, Harrie-Jan Hendricks Franssen, Damiano Zanotelli, Heye Bogena
S10.2		Exploring the effects of an improved irrigation scheme in ORCHIDEE land surface model on Europe's land surface hydrology and energy budget	<u>Pedro Arboleda</u> (<i>METIS, Paris</i>), Agnès Ducharne, Philippe Ciais, Zun Yin
S10.3		Evolution of 2018 to 2020 European terrestrial water resources anomalies from coupled COSMO-CLM-ParFlow (TSMP) forecast simulations	<u>Klaus Goergen</u> (<i>Forschungszentrum Jülich GmbH</i>), Maksim Iakunin, Carl Hartick, Niklas Wagner, Carina Furusho-Percot, Stefan Kollet
S10.4		The coupled Terrestrial Systems Modelling Platform (TSMP): evaluation of daily forecasts over a small convection-permitting model domain in Central Europe	<u>Maksim Iakunin</u> (<i>Institute of Bio- and Geosciences (IBG-3, Agrosphere), Research Centre Jülich, Jülich</i>), Niklas Wagner, Alexandre Belleflamme, Patrizia Ney, Alexander Graf Klaus Goergen, Stefan Kollet
S12.1		Crowd-based observations of intermittent streams	<u>Ilija Van Meerveld</u> (<i>Department of Geography, University of Zurich</i>), Mirjam Scheller, Franziska Schwarzenbach, Jan Seibert
S12.2		Impacts of using diverted mountain streamflow for irrigation on groundwater recharge and quality	<u>Younes Fakir</u> (<i>Université Cadi Ayyad [Marrakech]</i>), Houssne Bouimouass, Sarah Tweed, Hamza Sahraoui, Marc Leblanc

S12.3		Developing an operational method to estimate the time since disconnection of pools in temporary rivers	<u>Francesc Gallart</u> (<i>Institute of Environmental Assessment and Water Research, CSIC, Barcelona</i>)
S12.4		Which hydrological signatures of intermittence of rivers and streams in order to identify causes and ecological impacts ?	<u>Chloé Roger</u> (<i>SAS, Rennes, RiverLy, Lyon</i>), Ophélie Fovet, Isabelle Braud, Manuela Grippa, Basile Hector, Jérôme Molénat, Stéphane Audry, Flora Branger, Nathalie Folton, Caroline Le Bouteiller, Guillaume Nord, Anne Probst, Jean-Luc Probst, Damien Raclot, Jean Riotte, Laurent Ruiz, Rim Zitouna, Thibault Datry

THURSDAY OCTOBER 7 2021			
Session	Time_Slot	Title	Authors (underlined: presenter), only the affiliation of the presenter is provided In red: virtual presentation
		PLENARY SESSION: AMPHITHEATER	
S11	09:00-09:30	Delineating transport pathways in low permeable media using crosshole ground penetrating radar	Majken Caroline Zibar (<i>Department of Geosciences and Natural Resource Management, University of Copenhagen, Denmark</i>), Espen Bing Svendsen, Bolette Badsberg Jensen, Lars Nielsen
S1	09:30-10:00	Critical Zone and Ecosystem Observatories in mountain environments: laboratories for unravelling geosphere-biosphere interactions	Antonello Provenzale (<i>Institute of Geoscience and Earth Resources - National Council of Research, Italy</i>)
S14	10:00-10:30	The Legacy of Henry Lin and the future of Hydropedology	Hans-Jörg Vogel (<i>Helmholtz Centre for Environmental Research – UFZ, Germany</i>)
	10:30-11:00	COFFEE BREAK	
S15	11:00-11:30	Controls on critical zone formation: lateral, top-down, and bottom-up	William Dietrich (<i>Department of Earth and Planetary Science, UC Berkeley, USA</i>)
S16	11:30-12:00	Uplifted, recycled, eroded. Budgeting the plant mineral nutrient balance by element fluxes and metal isotopes	Friedhelm Von Blanckenburg (<i>German Research Centre for Geosciences - Helmholtz-Centre Potsdam</i>)
S17	12:00-12:30	Global change and the water cycle in the intertropical zone: scientific challenges and societal stakes	Thierry Lebel (<i>IGE, Grenoble</i>)
	12:30-14:00	LUNCH	
S11	14:00-14:15	Geoelectrical monitoring of calcite dissolution and precipitation in a column: an experimental and computational study	Flore Rembert (<i>ISTO, Orléans</i>), Damien Jougnot, Linda Luquot 3, Roger Guérin
S11	14:15-14:30	Global sensitivity analysis of Magnetic Resonance Sounding data to hydraulic parameters of a hydrogeological model applied at a catchment scale	Nolwenn Lesparre (<i>ITES, Strasbourg</i>), Philippe Ackerer, Jean-François Girard, Anis Younes, Thierry Mara
S11	14:30-14:45	Linking evapotranspiration from gravity variations using two vertically distributed superconducting gravimeters at daily time scale	Bertille Loiseau (<i>METIS, Paris</i>), Simon Damien Carrière, Cédric Champollion, Chloé Ollivier, Nolwenn Lesparre, Nicolas Martin St Paul, Albert Oliso, Jacques Hinderer, Damien Jougnot
S11	14:45-15:00	Sensitivity of ground penetrating radar travel time to the subsurface hydrodynamic parameters during an artificial infiltration experiment	Rohianuu Moua (<i>ITES, Strasbourg</i>), Jean-François Girard, Nolwenn Lesparre, Benjamin Belfort, François Lehmann, Anis Younes
S11	15:00-15:15	Spectral Electrical Impedance Tomography (EIT) measurements during water flow in a date palm stem segment	Tarig Bukhary (<i>Agrosphere (IBG-3), Institute of Bio- and Geosciences, Forschungszentrum Jülich, 52425 Jülich, Germany</i>), Johan Alexander Huisman, Egon Zimmermann, Naftali Lazarovitch, Harry Vereecken
S11	15:15-15:30	Effect of inversion approach on spectral electrical impedance tomography results	Haoran Wang (<i>Institute of Bio- and Geoscience (Agrosphere IBG-3), Forschungszentrum Jülich GmbH</i>), Johan Alexander Huisman, Egon Zimmermann, Harry Vereecken
	15:30-16:00	COFFEE BREAK	
S1	16:00-16:15	CRNS - new insights from modeling soil moisture measurement at the hectometer scale	Markus Köhli (Physikalisches Institut, Heidelberg University), Jannis Weimar, Martin Schrön, Ulrich Schmidt

S1	16:15-16:30	Investigating root water uptake profile shifts of a grassland species under varying hydro-climatic conditions with non-destructive isotopic monitoring	Paulina Alejandra Deseano Diaz (Forschungszentrum Juelich), Youri Rothfuss, Dubbert Maren, Mathieu Javaux, Dagmar Van Dusschoten
S1	16:30-16:45	Monitoring soil water content and water potential dynamics in irrigated apple orchards using cosmic-ray neutron probes	Cosimo Brogi (Agrosphere (IBG-3), Institute of Bio- and Geosciences, Forschungszentrum Jülich, 52425 Jülich, Germany), Heye Reemt Bogena, Vassilios Pisinaras, Andreas Panagopoulos, Olga Dombrowski, Jannis Jakobi, Anna Chatzi, Patrizia Ney ()
S1	16:45-17:00	Novel autonomous wireless sensors for soil moisture, salinity and temperature monitoring	Xavier Chavanne (IPGP, University of Paris, France)
S1	17:30-17:15	Subaquatic Relaxed Eddy Accumulation: A new technique to resolve benthic solute fluxes	Guilherme Calabro (Laboratoire Eau Environnement et Systèmes Urbains Ecole des Ponts ParisTech, Université Paris-Est Créteil Val-de-Marne - Paris 12), Philippe Dubois, Mohamed Saad, Andreas Lorke, Christian Noss, Lila Boudahmane, Brigitte Vinçon Leite, Magali Jodeau, Régis Moilleron, Bruno J. Lemaire
S1	17:15-17:30	Quantitative Influence of Bulk Density on Cosmic-Ray Neutron Sensing	Mandy Kasner (Helmholtz Centre for Environmental Research - UFZ, Department Monitoring and Exploration Technologies), Steffen Zacharias, Martin Schroen
		PARALLEL SESSION: Room 2	
S13	14:00-14:15	Climate change influence on the dynamic of organic pollutants in alpine soils	Lise Marchal (EDYTEM, Chambéry), David Gateuille, Emmanuel Naffrechoux, Jérôme Poulenar
S13	14:15-14:30	Cold scree slopes and abyssal ecosystems – an example of interactions between geomorphology, microclimate, soil and vegetation within the Critical Zone	Philippe Schoeneich (PACTE, Grenoble), Simon Meynier
S13	14:30-14:45	Atmospheric nitrogen deposition and watershed budget at the Lautaret Pass	Didier Voisin (IGE, Grenoble), Jim Grisillon, Jean-Martial Cohard, Aniket Gupta, Arnaud Foulquie
S16	14:45-15:00	Are B isotopes a diagnostic tool for soil/plant response to environmental changes?	Damien Lemarchand (ITES, Strasbourg), Philippe Roux, Marie-Pierre Turpault
S16	15:00-15:15	Direct measurements of microbial contribution to silicate weathering rates in soil	Bastien Wild (Princeton University), Gwenaël Imfeld, Damien Daval
S16	15:15-15:30	Simulations of liquid bridges in the rhizosphere and the relevance for larger scale models	Eva Kroener (Institut für Bio- und Geowissenschaften [Jülich]), Omid Jahromi, Jonas Bentz, Ravi Patel
	15:30-16:00		
S15	16:00-16:15	A reactive transport approach to modeling cave seepage water chemistry	Jennifer Druhan (University of Illinois Urbana Champaign Department of Geology), Jessica Oster
S15	16:15-16:30	Boron isotopes at Shale Hills Critical Zone Observatory: merits and demerits of observatories	Jérôme Gaillardet (IPGP, Paris), Johanna Noireaux, Pamela Sullivan, Grit Steinhoefel, Pascale Louvat, Sue Brantley
S15	16:30-16:45	Overland flow evolution on moraines in silicate and carbonate proglacial areas of the Swiss Alps	Fabian Maier, Ilya Van Meerveld (Department of Geography, University of Zurich)
S15	16:45-17:00	Quantifying oxidative weathering of petrogenic organic carbon in the Amazon basin using rhenium (Re) concentrations and isotopes	Mathieu Dellinger (Department of Geography, Durham University), Robert G. Hilton, Emily Burt, Mark Torres, Kathryn C. Clark, Jotautas Baronas, A. Joshua West

S15	17:30-17:15	Sediment export in marly badland catchments controlled by frost-cracking intensity, Draix-Bléone CZO, SE France	Coline Ariagno (<i>ETNA, Grenoble</i>), Caroline Le Bouteiller, Peter Van Der Beek, Sébastien Klotz
S15	17:15-17:30	Magnesium isotope fractionation during natural travertine precipitation: an example from Baishuitai system (Yunnan, SW China)	Jincun Liu (<i>Tianjin University, China</i>), Jiubin Chen
		PARALLEL SESSION: Room 3	
S17	14:00-14:15	An unexpected seasonality of wind erosion in Sahelian Senegal	Caroline Pierre (<i>iEES, Paris</i>), Jean Louis Rajo, Issa Faye, Christel Bouet, Amadou Ka, Bineta Amar, Abdourhamane Tall, Nathalie Diagne, Beatrice Marticorena, Dorégo Séraphin, Anaïs Féron
S17	14:15-14:30	Assessing hydrological regime shifts through system-dynamics modeling	Valentin Wendling (<i>HSM, Montpellier</i>), Christophe Peugeot, Manuela Grippa, Jeremy Panthou, Jean Louis Rajot, Olivier Mora, Angeles Garcia-Mayor, Emmanuel Lawin, Ibrahim Bouzou Moussa, Abdramane Ba, The Collaborators Of The Tiphyc Project
S17	14:30-14:45	Suspended particulate matter and water fecal pollution in the Niger River at Niamey	Moussa Boubacar Moussa (<i>Abdou Moumouni University, Faculty of Science and Technology (FAST)- Geology Department, Niamey / Niger</i>), Amadou Abdourhamane Toure, Bruno Lartiges, Emma Rochelle Newall, Laurent Kergoat, Elodie Robert, Marielle Gosset, Bachir Alkali Tanimoun, Manuela Grippa
S17	14:45-15:00	Critical Zones Africa: South & East -- Project Overview	Lesley Green (<i>Environmental Humanities South, University of Cape Town</i>), Steven Banwart, Vanessa Farr, Satishkumar Belliethathan, Christine Noe, Billy Mukamuri, Nikiwe Solomon, Jessica Kampanje-Phiri, Margarida Paulo, Jane Mutune, Frank Matose, Heidi Van Rooyen, Rachel Adams, Rachel Wynberg
S17	15:00-15:15	First results of a hyper-resolution continental west africa simulation with a critical zone model	Jean-Martial Cohard (<i>IGE, Grenoble</i>), Basile Hector, Thierry Pellarin, Alban Depeyre
S17	15:15-15:30	Strengthening the knowledge base for sustainable management of inland valleys in west Africa: two pilot case study sites from Benin	Mathias Tidjani (<i>Université Catholique de Louvain, Earth and Life Institute (ELI), GERU, Louvain-la-Neuve</i>), Pierre G. Tovihoudji, Sébastien Petit, P. B. Irénikatché Akponikp, Marnik Vanclooster
	15:30-16:00		
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	17:30-19:00	Poster sessions 1, 11, 13, 15, 16, 17 (35 posters, 24 on site, 11 virtual)	
S1.1		Application of Low-Cost MEMS Spectrometers for Forest Topsoil Properties Prediction	Felix Thomas (<i>Helmholtz Zentrum für Umweltforschung</i>), Rainer Petzold, Carina Becker, Ulrike Werban

S1.2		Neutrons on Rails -- trans-regional monitoring of soil moisture and snow water equivalent	<u>Martin Schrön</u> (<i>Helmholtz Centre for Environmental Research GmbH [UFZ Leipzig]</i>), Sascha Oswald, Mandy Kasner, Carmen Zengerle, Daniel Altdorff, Steffen Zacharias, Peter Dietrich, Sabine Attinger
S1.3		Studying the seasonality of active water pools in the CZ: the Weierbach Experimental Catchment	<u>Karl Nicolaus Van Zweek</u> (<i>Luxembourg Institute of Science and Technology</i>), Christophe Hissler, Laurent Gourdol, Laurent Pfister, Erwin Zehe
S1.4		Use of hydrological signatures to characterize the hydrological functioning of catchments from the OZCAR French Critical Zone	<u>Isabelle Braud</u> (<i>RiverLy, Lyon</i>), Ousseynou Ka, Pierre-Alain Ayrat, Arnaud Blanchouin, Laurie Boithias, Flora Branger, Nathalie Folton, Ophélie Fovet, Basile Hector, Ivan Horner, Sylvie Galle, Didier Josselin, Sylvain Kuppel, Eric Lajeunesse, Caroline Le Bouteiller, Cédric Legout, Jérôme Molénat, Guillaume Nord, Christophe Peugeot, Marie-Claire Pierret, Anne Probst, Jean-Luc Probst, Damien Raclot, Gaëlle Tallec, Maxime Wubda
S1.5		Using temporal stability to account for incomplete observations in field-scale average soil moisture estimates	<u>Felix Pohl</u> (<i>Department Computational Hydrosystems [UFZ Leipzig]</i>), Martin Schrön, Corinna Rebmann, Anke Hildebrandt
S1.6		A new device to sample dust on snow: the crowd	<u>Simon Gascoin</u> (<i>CESBIO, Toulouse</i>) et le Collectif Neige Orange
S1.7			
S1.8		Mobile CRNS as a tool for regionalized soil moisture recording - challenges, opportunities and limitations	<u>Mandy Kasner</u> (<i>Helmholtz Centre for Environmental Research - UFZ, Department Monitoring and Exploration Technologie s</i>), Steffen Zacharias, Martin Schroen, Carmen Zengerle
S1.9		STH-net: a soil monitoring network for process-based hydrological modelling from the pedon to the hillslope scale	<u>Edoardo Martini</u> (<i>Institute of Environmental Physics, Heidelberg University, Heidelberg</i>), Matteo Bauckholt, Simon Kögler, Manuel Kreck, Kurt Roth, Ulrike Werban, Ute Wollschläger, Steffen Zacharias
S1.10		UAV-photogrammetry to assess the interlinks between plant and water seasonal dynamics in a riparian wetland environment	<u>Emmanuel Léger</u> (<i>Geosciences Paris Saclay</i>), Adrien Renaud, Marc Pessel, Claude Mügler, Véronique Durand
S11.1		Airborne detection of sub-surface water content by cosmic-ray albedo neutrons in TERENO intensive research sites	<u>Martin Schrön</u> (<i>Helmholtz Centre for Environmental Research</i>), Carmen Zengerle, Mandy Kasner, Lutz Bannehr, Markus Köhli, Jannis Weimar, Marek Zreda, Sascha Oswald, Peter Dietrich
S11.2		Determination of crack density and fluid saturation of the granitic bedrock in the Strengbach catchment from full waveform acoustic logging data	<u>Matthias Zillmer</u> (<i>ITES, Strasbourg</i>), Fatou Doukoure, Jean-Michel Marthelot
S11.3		Discrete Fracture Network inversion from Electrical Resistivity Dataset	<u>Cédric Champollion</u> (<i>Géosciences, Montpellier</i>), Batyste Perrin, Delphine Roubinet
S11.4		Monitoring water flow in the critical zone using self-potentials: toward the quantification of rain infiltration and evapotranspiration	<u>Damien Jougnot</u> (<i>METIS, Paris</i>), Emily Voytek, Bertille Loiseau, Simon Damien Carrière , Cédric Champollion, Nolwenn Lesparre, Alexis Maineult
S11.5		Observing soil moisture in the root zone – which way to go on under silty soil conditions	<u>Ulrike Werban</u> (<i>Helmholtz Centre for Environmental Research</i>), Marco Pohle, Manuel Kreck, Felix Pohl, Corinna Rebmann
S11.6		Plot, slope and catchment scale electrical resistivity tomography of the Weierbach catchment (Luxembourg) for mapping regolith's structures and inferring hydrostratigraphic units	<u>Laurent Gourdol</u> (<i>Luxembourg Institute of Science and Technology, Department Environmental Research and Innovation (ERIN), Esch-sur-Alzette - Luxembourg</i>), Rémi Clément, Jérôme Juilleret, Núria Martínez-Carreras, Laurent Pfister, Christophe Hissle

S11.7		Time lapse resistivity monitoring unravels the influence of hedges on contaminant transfer	Nadia Carluer (<i>RiverLy, Lyon</i>), Jean Marçais, Julien Simon, Elia Kowalski, Rémi Clément
S11.8		The SiPaZoc project: Passive seismology for imaging the shallow structure of the Strengbach watershed and monitoring hydrological processes	Jérôme Vergne (<i>ITES, Strasbourg</i>), Dimitri Zigone, Louise Xiang, Nolwenn Lesparre, Solenn Cotel, Maxime Bès De Berc, Céleste Bourcke, Clément Hibert, Jean-François Girard, Alain Hernandez, Hélène Jund, Marie-Claire Pierret
S13.1		Microplastic pollution in remote Alpine Lakes	David Gateuille (<i>EDYTEM, Chambéry</i>), Emmanuel Naffrechoux, Julia Dusaucy, Nathalie Cottin, Grégory Toureau, Peter Gallinelli, Frédéric Gillet
S13.2		Understanding the dynamics of carbon dioxide fluxes in mountain grasslands: integration of eddy covariance and chamber CO2 measurements	Gianna Vivaldo (CNR Istituto di Geoscienze e Georisorse, Pisa { Italy}), Marta Magnani, Ilaria Baneschi, Virginia Boiani, Maurizio Catania, Mariasilvia Giamberini, Brunella Raco, Antonello Provenzale
S13.3		Assessing vegetation response to intense droughts in northern Italy	Alice Baronetti (<i>Centro Interdipartimentale sui Rischi Naturali in Ambiente Montano e Collinare, University of Turin, Turin, Italy</i>), Matia Menichini, Antonello Provenzale
S15.1		Clearcut stories of a disappearing home-field advantage	Liyan Zhuang (<i>Forschungszentrum Jülich, Agrosphäre (IBG-3)</i>), Andrea Schnepf, Liang Ziyi, Roland Bol
S15.2		Geochemical evolution of soils on Reunion Island	Anthony Dosseto (<i>Univ. Wollongong</i>), Alex Hannan-Joyner, Eron Raines, Gayer Eric, Laurent Michon
S15.3		Landslides as geological hotspots of CO2 emission: clues from the instrumented Séchillienne landslide, western European Alps	Julien Bouchez (<i>IPGP, Paris</i>), Pierre Nevers, Jérôme Gaillardet, Catherine Bertrand
S15.4		SIFFT project: using Si and Li isotopes to test the hydrologic control of weathering rates in Capesterre, Guadeloupe	Jotis Baronas (<i>IPGP, Paris</i>)
S15.5		Disentangling biogeochemical controls on weathering rates in the critical zone with mineral incubation experiments	Bastien Wild (<i>Princeton University</i>), Ivan-David Osorio-León, Camille Bouchez, Tanguy Le Borgne, Ian Bourg
S15.6		Zinc isotopes in the Pearl River Waters, China: a complex probe of both natural weathering and anthropogenic contamination	Qinyuan Qu (<i>Tianjin University, China</i>), Jiubin Chen
S16.1		Elementary and isotopic characterization of calcium adsorption on <i>Pseudomonas aeruginosa</i> and <i>Bacillus subtilis</i> .	Nicolas Nuvoli (<i>ITES, Strasbourg</i>), Anne-Désirée Schmitt, Valérie Geoffroy, Sophie Gangloff
S16.2		Titanium nanoparticles fate in small sized watersheds under different land-uses	J. Wang (<i>IPGP, Paris</i>), E. Alasonati, P. Fiscaro, Marc Benedetti
S17.1		Climate Change from 1980 to present and performance of ERA5 and MERRA2 datasets for hydrological modelling purposes in Benin: lessons learnt	Bernard Ahamide, Djigbo Félicien Badou, René Bodjrenou (<i>Institut National de l'Eau, Benin</i>) Guillaume Chagnaud, Jean-Martial Cohard, Derrick Danso, Basile Hector, Emmanuel Agnidé Lawin, Yèkambèssoun N'tcha M'po
S17.2		Groundwater flooding in an urban catchment of the Sahel region: long-term disequilibrium in the aquifer balance and environmental fluxes to the Niger River	Halidou Alassane Hado (<i>Abdou Moumouni University of Niamey, Niger</i>), Mahaman Moustapha Adamou, Guillaume Favreau, Marie Boucher, Karmadine Hima, Yahaya Nazoumou, Abdourahmane Toure

S17.3		The Representation Of Regolith Hydraulic Conductivity For Modeling Water Transfers In The West African Critical Zone	<u>Amelie Herzog</u> (<i>University of Freiburg, Chair of Environmental Hydrological Systems, Freiburg im Breisgau</i>), Basile Hector, Jean-Martial Cohard, Jean-Michel Vouillamoz, Fabrice Lawson, Christophe Peugeot, Inge De Graaf
S17.4		Vegetation dynamics in a fragile Sahelian ecosystem in relation to land use: the case of the Namaro dune belt in southwest Niger	<u>Idé Issoufou</u> (<i>Université Abdou Moumouni, Faculté des sciences et techniques, Département de Géologie, Niamey, Niger</i>), Amadou Abdourhamane Toure, Jean Louis Rajot
S17.5		A tele-epidemiological approach to the health hazard linked to diarrheal diseases and indication of vulnerability criteria for a global study of the health risk (Kapore, Burkina Faso)	<u>Elodie Robert</u> (<i>LETG, Nantes</i>), Manuela Grippa, D. Edwige Nikiema, Laurent Kergoat, Hamidou Koudougou, Yves Auda, Emma Rochelle Newall
S17.6		Remote Sensing for the Study of Water Resources in Mediterranean Landscapes. Case of the Tensift Watershed (Marrakech, Morocco)	<u>Vincent Simonneaux</u> (<i>CESBIO, Toulouse</i>), Salah Er-Raki, Meriem Alaouri, Abdelfattah Benkaddour Mounia Benghanem, Abdelghani Boudhar, Adnane Chakir, Abdelghani Chehbouni, Alain Dezetter, Jamal Ezzahar, Younes Fakir, Pascal Fanise, Florence Gaborit, Simon Gascoin, Lahoucine Hanich, Lionel Jarlan, Mohamed Kasbani, Said Khabba, Mohammed Hakim Kharrou, Valérie Le Dantec, Michel Le Page, Olivier Merlin, Patrick Mordelet, Fatima Raibi, Mohamed El Mehdi Saidi, Fathallah Sghir, Yves Trambly, Ludovic Villard, Bouchra Ait Hssaine, Abdelhakim Amazirh, Ghizlane Aouade, Oumaima Bennani, Elhoussaine Bouras, Alhoussein Diarra, Jamal El Farkh, Hajhouji Youssef, El Mehdi El Khalki, Houda Nassah, Nadia Ouaadi, Zoubair Rafi, Sefiani Salma, Jihad Toumi, Wiam Zkhiri