

**EGU 2020 Call for abstract open until 15 January 2020, 13:00 CET.**

**All the information to submit your abstract here:**

[https://egu2020.eu/abstracts\\_and\\_programme/how\\_to\\_submit\\_an\\_abstract.html](https://egu2020.eu/abstracts_and_programme/how_to_submit_an_abstract.html)

## **SESSION RELATED TO CRITICAL ZONE**

ITS2.11/ERE7.5

Critical Zone in Urban areas

Co-organized by HS12/SSS12

Convener: Beatrice Bechet | Co-conveners: Herve Andrieu, Cécile Delolme, Aawatif Hayar, Arjan Von Timmeren

<https://meetingorganizer.copernicus.org/EGU2020/session/37117>

### **HS10.11**

Advancing proxies in the critical zone: biogeochemical cycling, deciphering time-dependent processes in weathering profile, fingerprinting natural and anthropogenic sources

Co-organized by SSS12

Convener: Philippe Negrel | Co-conveners: F. Chabaux, Romain Millot, Emmanuelle Petelet-Giraud

<https://meetingorganizer.copernicus.org/EGU2020/session/35576>

HS10.10

Bridging the gap between hydrological and biogeochemical cycles in the critical zone

Convener: Tamara Kolbe<sup>ECS</sup> | Co-conveners: Jean Marçais<sup>ECS</sup>, Sílvia Poblador Ibáñez<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35575>

BG1.6

Functions and functioning of the Critical Zone

Co-organized by HS10/SSS12

Convener: Gerd Gleixner | Co-conveners: Antonello Provenzale

<https://meetingorganizer.copernicus.org/EGU2020/session/35211>

SSS5.8

Atmosphere – plant – soil interactions: organic and inorganic carbon in the critical zone

Co-organized by BG1

Convener: Chris McCloskey<sup>ECS</sup> | Co-conveners: Emily Dowdeswell-Downey<sup>ECS</sup>, Daniel Evans<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35056>

SSS8.9

Biogeochemical silicon cycling in the critical zone

Co-organized by BG3

Convener: Anika Klotzbücher<sup>ECS</sup> | Co-conveners: Julia Cooke, Jean-Thomas Cornelis, Camille Delvigne<sup>ECS</sup>, Jörg Schaller

<https://meetingorganizer.copernicus.org/EGU2020/session/35085>

HS10.3

Stable isotopes to study water and nutrient dynamics in the soil-plant-atmosphere continuum

Co-organized by BG2

Convener: Natalie Orłowski<sup>ECS</sup> | Co-conveners: Josie Geris<sup>ECS</sup>, Christophe Hissler, Pilar Llorens, Matthias Sprenger<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35570>

### **BG2.23**

Whole system approaches in addressing long-term changes in ecosystems

Co-sponsored by eLTER and ILTER

Convener: Michael Mirtl | Co-conveners: Jaana Bäck, Giorgio Matteucci, Daniel Orenstein

<https://meetingorganizer.copernicus.org/EGU2020/session/35273>

### SSS12.10

Understanding the role of deep weathering covers in the feedbacks between weathering and climate

Co-organized by CL1/GM3

Convener: Cecile Gautheron | Co-conveners: Julien Bouchez, Jean Braun, Emmanuelle Puceat

<https://meetingorganizer.copernicus.org/EGU2020/session/35119>

### SSS8.10

Shaping the Earth's Surface through Climate, Geology and Biota

Co-organized by CL4/GM4

Convener: Steffen Seitz<sup>ECS</sup> | Co-conveners: Annegret Larsen<sup>ECS</sup>, Carsten W. Mueller, Kirstin Übernickel<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35086>

### SSS6.9

Advancing soil model parameterization in land surface, climate and Earth systems models

Co-organized by CL5/GM3

Convener: Anne Verhoef | Co-conveners: Roland Baatz<sup>ECS</sup>, Teamrat Ghezzehei, Dani Or, Pier-Luigi Vidale

<https://meetingorganizer.copernicus.org/EGU2020/session/35071>

### SSS6.3

Advancement in Measurement and Modeling of Soil Physical and Hydraulic Properties: What's New?

Convener: Hailong He<sup>ECS</sup> | Co-conveners: Min Li<sup>ECS</sup>, Miles Dyck

<https://meetingorganizer.copernicus.org/EGU2020/session/35066>

### SSS8.8

Experimental ecosystem development research and ecological model systems

Convener: Werner Gerwin | Co-conveners: Shayli Dor-Haim, Jan Frouz, Mariano Moreno de las Heras

<https://meetingorganizer.copernicus.org/EGU2020/session/35084>

## **OTHER SESSIONS RELEVANT TO OZCAR-RI (Liste non exhaustive!!)**

### HS1.1.2

River flow monitoring in a changing world: hydrologic extremes, complex flows, unstable sites, uncertainties

Co-organized by GM5/NH1

Convener: Nick Everard | Co-conveners: Alexandre Hauet, Jérôme Le Coz, Mark Randall, Ida Westerberg

<https://meetingorganizer.copernicus.org/EGU2020/session/35458>

### HS1.1.3

Innovative methods for non-invasive monitoring of hydrological processes from field to catchment scale

Convener: Heye Bogena | Co-conveners: Clara Chew, Andreas Güntner, Martin Schrön<sup>ECS</sup>, Virginia Strati<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35459>

### HS1.1.4

Advances in river monitoring and modelling: data-scarce environments, real-time approaches, Inter-comparison of innovative and classical frameworks, uncertainties, Harmonisation of methods and good practices

Co-organized by GM2/NH1

Convener: Alonso Pizarro<sup>ECS</sup> | Co-conveners: Filippo Bandini<sup>ECS</sup>, Silvano F. Dal Sasso<sup>ECS</sup>, Anette Eltner<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35473>

### GI4.4

Instrumentation and measurements for water systems

Co-organized by HS1.1

Convener: Andrea Scozzari | Co-conveners: Anna Di Mauro, Francesco Soldovieri

<https://meetingorganizer.copernicus.org/EGU2020/session/36094>

### CR2.1 | PICO

Geophysical and in-situ methods for snow and ice studies

Co-organized by HS1.1/SM4

Convener: Franziska Koch<sup>ECS</sup> | Co-conveners: Nanna Bjørnholt Karlsson, Kristina Keating, Emma C. Smith<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/34939>

### HS1.2.1 | PICO

Pathways towards solving the Unsolved Problems in Hydrology (UPH)

Co-sponsored by AGU, IAH, and IAHS

Convener: Elena Toth | Co-conveners: Berit Arheimer, Günter Blöschl, Christophe Cudennec, Maria-Helena Ramos

<https://meetingorganizer.copernicus.org/EGU2020/session/35358>

### HS1.2.4 | PICO

Panta Rhei: Hydrology, Society & Environmental Change

Convener: Fuqiang Tian | Co-conveners: Enrica Caporali, Giuliano Di Baldassarre, Heidi Kreibich, Tobias Krueger

<https://meetingorganizer.copernicus.org/EGU2020/session/35357>

#### HS2.1.2

Snow and ice accumulation, melt, and runoff generation in catchment hydrology: monitoring and modelling

Co-organized by CR3

Convener: Guillaume Thirel | Co-conveners: Francesco Avanzi<sup>ECS</sup>, Doris Duethmann<sup>ECS</sup>, Abror Gafurov, Juraj Parajka

<https://meetingorganizer.copernicus.org/EGU2020/session/35493>

#### HS2.1.3

Changes in the Mediterranean hydrology: observation and modeling

Convener: Lionel Jarlan | Co-conveners: Said Khabba, María José Polo, Yves Trambly, Mehrez Zribi

<https://meetingorganizer.copernicus.org/EGU2020/session/35494>

#### HS2.1.4

Tropical Hydrology: Modelling and Field Experimentation

Convener: Alicia Correa<sup>ECS</sup> | Co-conveners: Christian Birkel, Clément Duvert<sup>ECS</sup>, Rodolfo Nóbrega<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35495>

#### HS2.1.5

Advances in African Hydrology and Climate: Modelling, Observations and Water Management

Convener: Peter Burek | Co-convener: Feyera Hirpa

<https://meetingorganizer.copernicus.org/EGU2020/session/35532>

#### HS2.1.6

Forest hydrology in the 21st century

Convener: Luisa Hopp | Co-conveners: Yuko Asano, Daniele Penna, Sally Thompson, Yuting Yang

<https://meetingorganizer.copernicus.org/EGU2020/session/35497>

#### HS2.1.7

Hydrological Processes in Agricultural Lands under Changing Environment

Convener: Jun Niu | Co-conveners: Noel Aloysius, Bellie Sivakumar

<https://meetingorganizer.copernicus.org/EGU2020/session/35533>

#### HS2.1.8 | PICO

Zero flow: hydrology and biogeochemistry of intermittent and ephemeral streams

Co-organized by BG4

Convener: Catherine Sefton | Co-conveners: E. Sauquet, Ilja van Meerveld

<https://meetingorganizer.copernicus.org/EGU2020/session/35504>

#### CR5.8

Hydrology of ice shelves, ice sheets and glaciers - from the surface to the base

Co-organized by HS2.1

Convener: Sammie Buzzard<sup>ECS</sup> | Co-conveners: Ian Hewitt, Amber Leeson, Martin Wearing<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/34964>

### CR3.2 | PICO

Modelling and measuring snow processes across scales

Co-organized by AS4/CL2/HS2.1

Convener: Nora Helbig | Co-conveners: Neige Calonne<sup>ECS</sup>, Richard L.H. Essery, Henning Loewe, Vincent Vionnet

<https://meetingorganizer.copernicus.org/EGU2020/session/34949>

### HS2.2.1

Models and Data: Understanding and representing spatio-temporal dynamics of hydrological processes

Convener: Björn Guse | Co-conveners: Shervan Gharari, Sina Khatami<sup>ECS</sup>, Luis Samaniego, Simon Stisen

<https://meetingorganizer.copernicus.org/EGU2020/session/35498>

### HS2.2.2

Coupled atmosphere-hydrological simulations: model development, applications and data assimilation

Co-organized by AS2/NH1

Convener: Harald Kunstmann | Co-conveners: Martin Drews, Stefan Kollet, Alfonso Senatore

<https://meetingorganizer.copernicus.org/EGU2020/session/35545>

### HS2.2.3

Subsurface runoff in catchment hydrology: From innovative experimental approaches to process modelling

Convener: Peter Chiffard | Co-conveners: Theresa Blume, Edoardo Martini<sup>ECS</sup>, Natalie Orłowski<sup>ECS</sup>, Michael Rinderer

<https://meetingorganizer.copernicus.org/EGU2020/session/35499>

### HS2.2.4

Isotope and tracer methods: flow paths characterization, catchment response and transformation processes

Convener: Christine Stumpp | Co-conveners: Michael Rinderer, Markus Weiler

<https://meetingorganizer.copernicus.org/EGU2020/session/35500>

### HS2.3.1

Water quality at the catchment scale: measuring and modelling of nutrients, sediment and eutrophication impacts

Convener: Paul Wagner<sup>ECS</sup> | Co-conveners: Nicola Fohrer, Ype van der Velde, Andrew Wade

<https://meetingorganizer.copernicus.org/EGU2020/session/35507>

### HS2.3.2

Data-driven analysis of water quality time series to understand solute and particulate export mechanisms in catchments

Convener: Andreas Musolff | Co-conveners: Benjamin Abbott, Rémi Dupas<sup>ECS</sup>, Stefanie Lutz<sup>ECS</sup>, Camille Minaudo<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35509>

### HS2.3.5

Sources and transport of agro-contaminants in soil, surface and groundwater using stable isotope techniques

Co-organized by BG2, co-sponsored by AIEA

Convener: Gwenaël Imfeld | Co-conveners: Joseph Adu-Gyamfi, Lee Heng, Grzegorz Skrzypek

<https://meetingorganizer.copernicus.org/EGU2020/session/35511>

### HS2.3.6

Micropollutants and pathogens in the soil-groundwater-river continuum: modeling and monitoring

Convener: Matthias Gassmann | Co-conveners: Sylvain Payraudeau, Stefan Reichenberger, Piet Seuntjens, Christian Stamm

<https://meetingorganizer.copernicus.org/EGU2020/session/35512>

### HS3.2 | PICO

Innovative sensing techniques for water monitoring, modelling, and management: Satellites, gauges and citizens

Convener: Fernando Nardi | Co-conveners: Thaine H. Assumpção, Wouter Buytaert, Serena Ceola<sup>ECS</sup>, Maurizio Mazzoleni<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35467>

### HS3.4

Deep Learning in Hydrological Science

Co-organized by ESSI2/NP4

Convener: Frederik Kratzert<sup>ECS</sup> | Co-conveners: Claire Brenner<sup>ECS</sup>, Hoshin Gupta, Daniel Klotz<sup>ECS</sup>, Grey Nearing

<https://meetingorganizer.copernicus.org/EGU2020/session/35466>

### ITS4.1/NP4.2

Big data and machine learning in geosciences

Co-organized by AS5/CL5/ESSI2/G6/GD10/HS3/SM1

Convener: Mikhail Kanevski | Co-conveners: Peter Baumann, Sandro Fiore, Kwo-sen Kuo, Nicolas Younan

<https://meetingorganizer.copernicus.org/EGU2020/session/35802>

### HS8.1.2

Subsurface flow and transport in heterogeneous media: Concepts, modeling, observations and applications of dispersion, mixing and reactive transport.

Convener: Alraune Zech<sup>ECS</sup> | Co-conveners: Felipe de Barros, Marco Dentz, Aldo Fiori, Antonio Zarlenga

<https://meetingorganizer.copernicus.org/EGU2020/session/35612>

### HS8.1.4

Reactive transport, mineral dissolution and precipitation in fractured and porous rock: experiments, models and field observations

Co-organized by ERE6/GM3/GMPV6

Convener: Piotr Szymczak | Co-conveners: Sylvain Courrech du Pont, Linda Luquot

<https://meetingorganizer.copernicus.org/EGU2020/session/35614>

### HS8.1.5 | PICO

Hydrogeophysics: a tool for hydrology, ecology, agronomy and beyond

Co-organized by SSS6

Convener: Sarah Garré | Co-conveners: Remi Clement, Damien Jougnot, Philippe Leroy, Ulrike Werban

<https://meetingorganizer.copernicus.org/EGU2020/session/35615>

### HS8.2.3

Fractured and karstified aquifers

Convener: Georg Kaufmann | Co-conveners: Steffen Birk, Franci Gabrovsek, Eric Zechner

<https://meetingorganizer.copernicus.org/EGU2020/session/35620>

### HS8.2.5

Innovative methods for the quantification of subsurface processes

Convener: Maria Klepikova<sup>ECS</sup> | Co-conveners: Pietro De Anna, Clement Roques<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35621>

### HS8.2.8

Estimation and application of groundwater ages and mean residence times

Convener: Andreas Hartmann<sup>ECS</sup> | Co-conveners: Martin Kralik, Uwe Morgenstern

<https://meetingorganizer.copernicus.org/EGU2020/session/35624>

### HS8.3.3

Preferential flows in fractured porous media, soils and across rock–soil interfaces

Convener: Jannes Kordilla<sup>ECS</sup> | Co-conveners: Marco Dentz, Laurent Lassabatere, Andreas Hartmann<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35631>

### HS8.3.4

Soil-Plant interaction

Co-organized by SSS8

Convener: Mohsen Zarebanadkouki<sup>ECS</sup> | Co-conveners: Valentin Couvreur<sup>ECS</sup>, John Koestel, Martin Bouda<sup>ECS</sup>, Naftali Lazarovitch

<https://meetingorganizer.copernicus.org/EGU2020/session/35632>

### HS9.1

Measurement and monitoring techniques for sedimentary and hydro-morphological processes in open-water environments

Co-organized by GM2/NH1

Convener: Kordula Schwarzwälder | Co-conveners: Stefan Achleitner, Gabriele Harb, Axel Winterscheid

<https://meetingorganizer.copernicus.org/EGU2020/session/35579>

### HS9.4

Techniques for quantifying the sources and the dynamics of sediment in river catchments across a range of spatial and temporal scales

Co-organized by GM5

Convener: Olivier Evrard | Co-conveners: Gema Guzmán, Hugh Smith

<https://meetingorganizer.copernicus.org/EGU2020/session/35580>

### HS9.5

Transfer of sediments and contaminants in catchments, rivers systems and lakes

Co-organized by GM3

Convener: Marcel van der Perk | Co-conveners: Patrick Byrne, Núria Martínez-Carreras

<https://meetingorganizer.copernicus.org/EGU2020/session/35581>

### SSS2.4

Gully and rill erosion: recent advancements and novel approaches

Co-organized by HS9

Convener: Javier Casali | Co-conveners: Henrique Momm, Anita Bernatek-Jakiel<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35036>

### HS10.1

General Ecohydrology

Convener: Giulia Vico | Co-conveners: Christoph Hinz, Julian Klaus, Keith Smettem

<https://meetingorganizer.copernicus.org/EGU2020/session/35566>

### HS10.2

Bridging scales and uncertainties of in-situ evapotranspiration measurements

Co-organized by AS5

Convener: Sibylle K. Hassler<sup>ECS</sup> | Co-conveners: Harrie-Jan Hendricks Franssen, Corinna Rebmann, Ann van Griensven

<https://meetingorganizer.copernicus.org/EGU2020/session/35574>

### HS10.3

Stable isotopes to study water and nutrient dynamics in the soil-plant-atmosphere continuum

Co-organized by BG2

Convener: Natalie Orłowski<sup>ECS</sup> | Co-conveners: Josie Geris<sup>ECS</sup>, Christophe Hissler, Pilar Llorens, Matthias Sprenger<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35570>

### HS10.4

Water and solutes fluxes affected by vegetation canopies: Patterns, processes, and interactions at the soil-plant-atmosphere interface

Co-organized by BG3/SSS9

Convener: Jan Friesen | Co-conveners: Miriam Coenders-Gerrits, Anke Hildebrandt, Pilar Llorens

<https://meetingorganizer.copernicus.org/EGU2020/session/35571>

### HS10.5

Ecohydrology in agroecosystems

Convener: Fabrice Vinatier<sup>ECS</sup> | Co-conveners: Bailly Jean-Stéphane, Wiebke Niether<sup>ECS</sup>, Rodolfo Nóbrega<sup>ECS</sup>

<https://meetingorganizer.copernicus.org/EGU2020/session/35567>

### HS10.6

Peatland Hydrology

Co-organized by BG3

Convener: Michel Bechtold | Co-conveners: Ullrich Dettmann, Joseph Holden, Björn Klöve, Marie Larocque



<https://meetingorganizer.copernicus.org/EGU2020/session/35568>

HS10.7

Groundwater - Surface Water Interactions: Physical, Biogeochemical and Ecological processes

Co-organized by BG4

Convener: Julia Knapp<sup>ECS</sup> | Co-conveners: Fulvio Boano, Jennifer Drummond<sup>ECS</sup>, Jan Fleckenstein, Jörg Lewandowski

<https://meetingorganizer.copernicus.org/EGU2020/session/35569>

ITS1.13/SSS12.1

Interdisciplinary studies on pesticide drift, soil contamination and food security

Co-organized by EOS4/HS12/NH8

Convener: Glenda Garcia-Santos | Co-conveners: Anne Alix, Virginia Aparicio, Manfred Sager, Jan van de Zande

<https://meetingorganizer.copernicus.org/EGU2020/session/35999>