

LiveChat session, Friday, 08 May 2020, 08:30-10:15

## 1. Evaporation and precipitation processes (08:30-09:00)

D3032 | EGU2020-13131

[Key controls of water vapour isotopes during oceanic evaporation and their global impact](#)

Martin Werner, Jean-Louis Bonne, Alexandre Cauquoin, and Hans Christian Steen-Larsen

D3031 | EGU2020-10022

[Influence of mid-latitude oceanic fronts on the atmospheric water cycle](#)

Fumiaki Ogawa and Thomas Spengler

D3059 | EGU2020-21964

[North Atlantic SST variability and high impact storms affecting the Iberian Peninsula](#)

Fátima Ferreira, Margarida L. R. Liberato, Alexandre M. Ramos, and Raquel Nieto

D3044 | EGU2020-16029

[Changes in the empirical distribution of global precipitation](#)

Yannis Markonis, Simon Michael Papalexiou, Marta Martinkova, and Martin Hanel

D3037 | EGU2020-4638

[Causes of future Mediterranean precipitation decline depend on the season](#)

Roman Brogli, Silje Lund Sørland, Nico Kröner, and Christoph Schär

D3045 | EGU2020-22688

[Relationship between surface and tropospheric water vapor variation on interannual timescale: A revisit](#)

Mengmiao Yang, De-Zheng Sun, and Guang J. Zhang

D3046 | EGU2020-10401

[Rising Temperatures Increase Importance of Oceanic Evaporation as a Source for Continental Precipitation](#)

Kirsten Findell, Patrick Keys, Ruud van der Ent, Benjamin Lintner, Alexis Berg, and John Krasting

D3047 | EGU2020-20963

[Long-term change of warm-season precipitation climatology in South Korea](#)

Hyeon-seok Do and Joowan Kim

D3060 | EGU2020-1354

[Moisture recycling over the Iberian Peninsula. The impact of 3DVAR data assimilation](#)

Santos J. González-Rojí, Jon Sáenz, Javier Díaz de Argandoña, and Gabriel Ibarra-Berastegi

D3052 | EGU2020-3665

[The L-WAIVE campaign over the Annecy lake: An analysis of water vapor variability in complex terrain](#)

Patrick Chazette, Elsa Dieudonné, Anne Monod, Harald Sodemann, Julien Totems, Alexandre Baron, Céline Diana, Pascal Doira, Amandine Durand, Fabienne Maignan, Sylvain Ravier, Andrew Seidl, and Cyrille Flamant

D3053 | EGU2020-17782

[Water vapour and precipitation isotope measurements from different platforms during the IGP campaign, Iceland, in 2018 connect evaporation sources to precipitation sinks](#)

Harald Sodemann, Alexandra Touzeau, Chris Barrell, John F. Burkhart, Andrew Elvidge, Þorsteinn Jónsson, Thomas A. Lachlan-Cope, Jean-Lionel Lacour, Mika Lanzky, Heidi Midtgarden Golid, Rósa Ólafsdóttir, Lukas Papritz, Ian A. Renfrew, Hans Christian Steen-Larsen, Árný Sveinsbjörnsdóttir, and Yongbiao Weng

## 2. Atmospheric Rivers and precipitation extremes (09:00-09:30)

D3030 | EGU2020-12010

### [Ultra-high-resolution future coupled model projections of atmospheric rivers](#)

Arjun Nellikkattil, Bin Guan, June-Yi Lee, Axel Timmermann, Sun-Seon Lee, Duane Waliser, and J.-E. Chu

D3033 | EGU2020-10979

### [Stable water isotopes as a tool to investigate tropospheric moisture transport pathways over the eastern subtropical North Atlantic](#)

Fabienne Dahinden, Franziska Aemisegger, Sabine Barthlott, Emanuel Christner, Christoph Dyroff, Frank Hase, Peter Knippertz, Heini Wernli, Matthias Schneider, and Stephan Pfahl

D3034 | EGU2020-2315

### [Moisture sources of extreme Vb-floods in Central Europe](#)

Amelie Krug, Franziska Aemisegger, Michael Sprenger, Cristina Primo, and Bodo Ahrens

D3035 | EGU2020-5690

### [Extreme precipitation events in the Mediterranean area. A contrasting Lagrangian and Eulerian approach for moisture evaporation sources identification.](#)

Sara Cloux González, A. Daniel G. Paz, Damian I. Costa, Vicente P. Muñozuri, and Gonzálo M. Macho

D3039 | EGU2020-8343

### [Combined event-based tritium and air mass back-trajectory analysis of Mediterranean precipitation events](#)

Tobias Juhlke, Jürgen Sültenfuß, Katja Trachte, Frédéric Huneau, Emilie Garel, Sébastien Santoni, Johannes A. C. Barth, and Robert van Geldern

D3036 | EGU2020-11354

### [Tropical air intrusions over the eastern Mediterranean and Mesopotamia: An atmospheric river case study and role of the East Asian trough](#)

Omer L. Sen, Deniz Bozkurt, and Yasemin Ezber

D3038 | EGU2020-4545

### [Cross-equatorial dry intrusions and their impact on Indian summer monsoon-associated water cycle](#)

Deepika Rai and Shira Raveh-Rubin

D3048 | EGU2020-375

### [Moisture Source-to-Receptor Network for East Asian Summer Monsoon and the Associated Atmospheric Bridges](#)

Tat Fan Cheng and Mengqian Lu

D3049 | EGU2020-257

### [Spatio-Temporal Dynamics of East Asia Atmospheric Rivers and their Atmospheric Steering and Climatic Regulation](#)

Mengxin Pan, Mengqian Lu, Upmanu Lall, and Qizhen Dong

D3050 | EGU2020-240

### [A novel global AR identification algorithm](#)

Mengqian Lu and Mengxin Pan

D3051 | EGU2020-18794

### [A portrayal of an orographic Warm Conveyor Belt using observations from aircraft, lidar and radar](#)

Maxi Boettcher, Andreas Schäfler, Harald Sodemann, Michael Sprenger, Stefan Kaufmann, Christiane Voigt, Hans Schlager, Donato Summa, Paolo Di Girolamo, Daniele Nerini, Urs Germann, and Heini Wernli

D3058 | EGU2020-13001

### [Drivers of stable water isotope variability in the cold and warm sector of extratropical cyclones from two case studies in the Southern Ocean](#)

Iris Thurnherr, Franziska Aemisegger, Lukas Jansing, Katharina Hartmuth, Josué Gehring, Stephan Pfahl, Maxi Böttcher, Alexis Berne, and Heini Wernli

### 3. Climate proxy interpretation from water isotopes (09:30-10:00)

D3040 | EGU2020-11507

[Lagrangian detection of moisture sources for an arid region in Northeast Greenland: relations to the North-Atlantic Oscillation and temporal trends from 1979 to 2017](#)

Lilian Schuster, Fabien Maussion, Lukas Langhamer, and Gina E. Moseley

D3041 | EGU2020-20146

[What drives the isotopic composition of vapor, precipitation and surface snow in a coastal site of East Anctica: Adelie Land](#)

Christophe Leroy-Dos Santos, Amaelle Landais, Elise Fourre, Cecile Agosta, Mathieu Casado, Anais Orsi, Gregoire Aufresne, Olivier Jossoud, and Frederic Prié

D3042 | EGU2020-22376

[Isotopic equilibrium between precipitation and water vapor in Northern Patagonia and its consequences on  \$\delta^{18}O\$  cellulose estimate](#)

Tiphaine Penchenat, Françoise Vimeux, Valérie Daux, Olivier Cattani, Maximiliano Viale, Ricardo Villalba, Ana Srur, and Clément Outrequin

D3043 | EGU2020-4527

[Testing isotopologues as diabatic heating proxy for atmospheric data analyses](#)

Farahnaz Khosrawi, Kinya Toride, Kei Yoshimura, Christopher Diekmann, Benjamin Ertl, and Matthias Schneider

D3054 | EGU2020-18719

[Links between the moisture origin and isotopic signature in water vapour, snowfall and snow pack at Finse Alpine Research Center \(1222m\) in Southern Norway](#)

Mika Lanzky, Alexandra Touzeau, John F. Burkhart, Simon Filhol, Yongbiao Weng, and Harald Sodemann

D3055 | EGU2020-11413

[Statistical relationship between the air moisture source and stable isotope composition of precipitation in Hungary](#)

Emese Bottyán, Erzsébet Kristóf, Krisztina Kármán, László Haszpra, Tamás Weidinger, and György Czuppon

D3056 | EGU2020-15241

[Multi-year water vapor isotopes \( \$\delta^{18}O/ \delta^2H\$ \) reveal dynamic drivers of moisture source and transport in the Barents Region](#)

Hannah Bailey, Kaisa-Riikka Mustonen, Eric Klein, Pete Akers, Ben Kopec, Moein Mellat, Alun Hubbard, Douglas Causey, and Jeffrey Welker

D3057 | EGU2020-16042

[Identification of source-sink relationships in southern Africa by stable water isotopes analysis and Lagrangian moisture source diagnostics](#)

Marielle Geppert, Stephan Pfahl, Ulrich Struck, Ingo Kirchner, Elisha Shemang, Kai Hartmann, and Frank Riedel