



**European Conference on Severe Storms
2023**

First Announcement



The European Severe Storms Laboratory
the Romanian Association of Applied Meteorology and Education and
Romanian National Meteorological Administration invite you to:



ECSS2023
**11TH European
Conference on
Severe Storms**
in Bucharest, Romania
8-12 May 2023

The scope of the conference covers all aspects of severe convective storms. Researchers, forecasters, risk and emergency managers, and others dealing with severe storms from around the world are invited to submit contributions.

The following sessions are foreseen:

- Convective storm and tornado dynamics
- Numerical modelling of storms, storm-scale data assimilation
- Impact of storms on society, impact mitigation and early warning systems
 - Flash floods
- Forecasting and nowcasting of storms
 - Severe weather forecaster training
- Satellite studies of storms and their environment
- Radar studies of storms and their environment
- Storm microphysics, electrification, lightning and hail



More information you can find [here](#).

Mini-European Conference on Severe Storms (mini-ECSS)

Between 27 and 28 September, the ESSL organized the mini-European Conference on Severe Storms (mini-ECSS). The pandemic situation over the past years has led to the postponement of the European Severe Storms Conference for spring 2023. Thus, the mini-ECSS offered the opportunity for PhD students and early-career scientists to present their latest research. This online event was structured in four sessions with 20 participants from Europe, the United States, India, Brazil, and Australia showing their research on subjects such as the climatology of severe storms, hail studies, radar observations of storms, and the use of deep learning in severe storms detection. Each afternoon, two invited speakers from ESSL and the United States presented their research and insights on severe storm climatology and forecasting, convective initiation and also on severe storm warnings. The mini-ECSS attracted an audience of more than 50 international participants for each session.

ESSL Tornado and Wind Damage Workshop 2022

At the latest edition of this series of workshops ESSL worked with participants from Italy, Poland, Czechia, Slovakia, Austria, the Netherlands, Canada, and remotely from the United States and Japan to discuss the practice of rating wind and tornado damage. As a framework for doing this consistently, ESSL has led the development of the so-called International Fujita scale, that is set to become an internationally applicable guideline to assess tornadic and wind damage and estimate the wind speed responsible for it. During the workshop, results from wind tunnel experiments were reviewed, and participants presented among other topics, field case studies, problems with rating vegetation damage, and lessons from the violent tornado in Czechia on 24 June 2021. The workshop included a visit to three different building sites in and around Vienna, where certified expert for structural analysis, and concrete and reinforced concrete construction Dr. Ferdinand Josef Jeindl provided insight into typical building practices in the present and past. The workshop concluded with the decision that ESSL will make adaptations to the draft IF-scale guideline document that ESSL published in 2019 until the end of 2022, which, after review, is to be implemented in the European Severe Weather Database in January 2023.



Dr Ferdinand Josef Jeindl (certified expert for structural analysis,

and concrete and reinforced concrete construction) with the workshop participants

Cooperation between ESSL and European Meteorological Society

On 3 October 2007 the European Severe Storms Laboratory (ESSL) and the European Meteorological Society ([EMS](#)) signed an Agreement that defined guidelines for mutually beneficial interaction because they share a common vision of advancing meteorology as well as care for pan-European severe weather research. The agreement needs to be renewed every five years, so this autumn the cooperation was once again extended to the satisfaction of both parties during the EMS Annual Meeting in Bonn.



EMS President Bert Holtslag and ESSL Deputy Director Tanja Renko sign a cooperation agreement (photo: © Geza Aschoff / bundesfoto)

New team member – Stefan Eisenbach

ESSL has a new [team member](#) – **Stefan Eisenbach**

Stefan studied meteorology & mountain risk engineering in Vienna and worked then at a private

weather service, where he was responsible for projects in aviation and for railways.

As Stefan is a passionate sailor, skier and mountaineer, he had always a passion for meteorology and weather forecasting. He lives in Vienna and will support ESSL as a Project Advisor for research projects and as the new Head of External and Media Relations.



ESSL training activities

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events@essl.org

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