

**Report on the EMS 2025 conference,  
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**Hive weight time series prediction using meteorological factors during *R. pseudoacacia* nectar flow**

First of all, I am writing to express my gratitude to the European Meteorological Society (EMS) committee for granting me the Young Scientist Conference Award (YSCA). I am truly honoured by this recognition, and I deeply appreciate the support that enabled my participation in this year's conference.

As a PhD student and early-career scientist in meteorology, attending the EMS 2025 conference was a valuable opportunity for me to learn about research activities at other institutes, universities, meteorological services, and private sector organisations. EMS provides an excellent framework for scientific exchange and engagement, not only through the thematic sessions but also during informal interactions at coffee breaks, poster sessions, and exhibitions. I also explored job opportunities by visiting exhibitions and met all kinds of people from diverse backgrounds, which was also highly beneficial for my career. Listening to the presentations inspired me with new ideas for analysing my data and evaluating my results.

My contribution to this year's meeting was an OPA poster presentation in the OSA 2.2 session: "Forests, agriculture and climates across scales", titled "Hive weight time series prediction using meteorological factors during *R. pseudoacacia* nectar flow". During my poster presentation, I met many inspiring colleagues whose feedback gave me great confidence to continue my research in this field. I also learned a lot from others about the ideal way of poster presentation and their advice on how to make my poster more eye-catching in the future.

One of the highlights of EMS events for me every year is the colourful and engaging daily weather reports displayed in the hall, which add both a fun and informative element to the conference atmosphere. Together with my colleagues, I also participated in two excursions: one to the phenological park and another to the radar station at Pasja Ravan. In the phenological park, we could learn about the Slovenian phenological monitoring network, which we found particularly impressive for its valuable, long-term, and high-quality datasets. In Hungary, we are also redesigning and restarting our monitoring network to track vegetation shifts under climate change, so this visit was highly relevant for us. The radar excursion gave me my first

opportunity to learn about the operational routine of a radar station, which will be very useful for the lectures I deliver to my students at my university.

This year, AI and machine learning applications were a central theme, with a dedicated session and numerous studies presented. The thematic spotlight was the growing use of AI/ML in atmospheric sciences and meteorological applications, with a particular focus on flooding and warnings, where a lot of interesting topics, solutions, and research ideas were presented. Before the Award session, the discussion in the PSE1 Opening panel about AI modeling and Florence Rabier's talk from ECMWF was particularly remarkable. Furthermore, we could learn a lot about other institutes' development and their plan in relation to AI. I also found the Weather Communication session particularly interesting, as it gave me the chance to meet many new colleagues and exchange ideas. I really enjoyed Jay Trobec's presentation on the communication of weather warnings in the USA. I also followed the UP3.1 session named "Climate change detection, assessment of trends, variability and extremes", where my colleagues presented most of their work. This topic is a bit different from my study, although I find it highly relevant to learn more about today's and the future changes to communicate well with non-professionals. The UP 1.3 "Understanding and modelling of atmospheric hazards and severe weather phenomena" WRF studies were also captivating. The WRF studies are particularly relevant to me, as I plan to use this model as an input variable for biological modelling; therefore, learning about it is essential for my work. We use the WRF model extensively in research studies, as well as for operational forecasting in Hungary.

I think these experiences will undoubtedly support my ongoing research and future career development. For these reasons, I plan to participate regularly in future EMS meetings whenever the opportunity arises.

With sincere thanks,  
Csilla Ilyés-Vincze