



## ESWD summary of 2020

**ESSL** has posted annual overviews of the European Severe Weather Database (ESWD) reports on severe weather events via Twitter [@essl\\_ecss](#) and [Facebook](#). Here comes a summary of the year **2020**.

In 2020, 225 severe weather events resulted in 347 fatalities and 279 severe weather events resulted in 643 injuries.

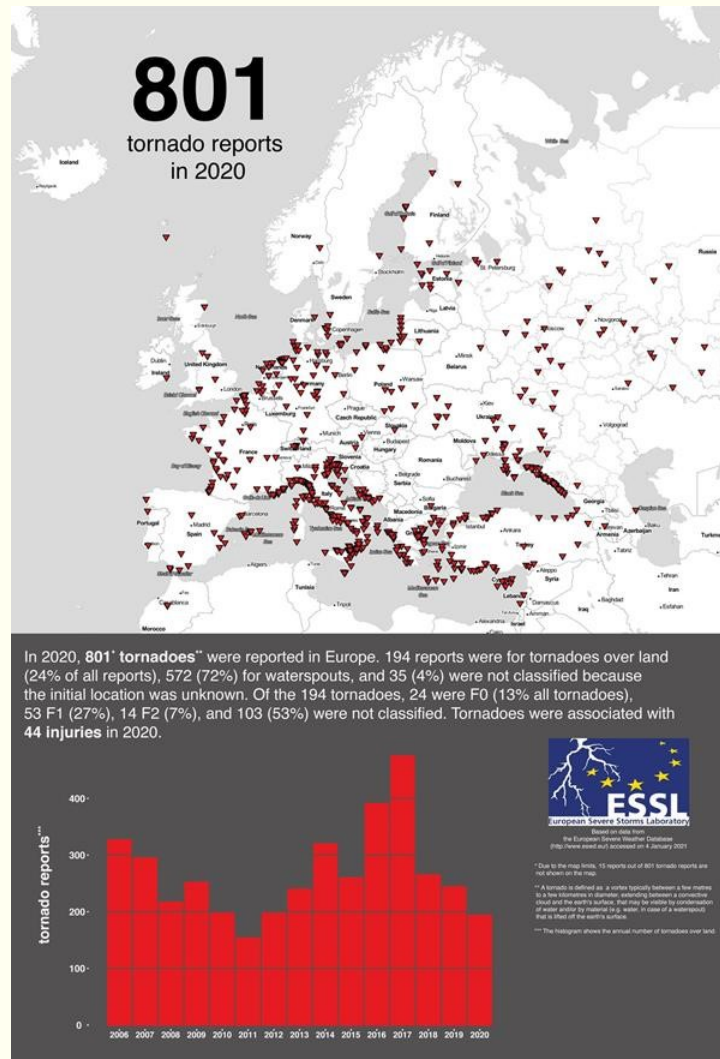
**Tornadoes** – 801 reports, of which 194 reports were for tornadoes over land and 572 were for waterspouts. Tornadoes were associated with 44 injuries.

**Large hail** – 2,955 large hail events were reported in Europe. This is the second-largest number of hail events reported in one year since 2006 (3,306 large hail events were reported in 2019). Large hail

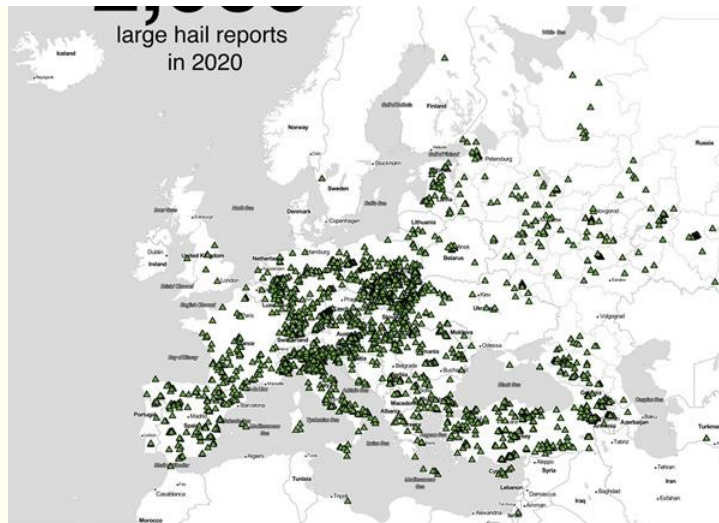
was associated with 1 injury and 1 fatality.

**Heavy rain** – 3,893 heavy rain events were reported in Europe. This is the fourth largest number of heavy rain events reported in one year since 2006. Heavy rain was associated with 44 injuries and 95 fatalities.

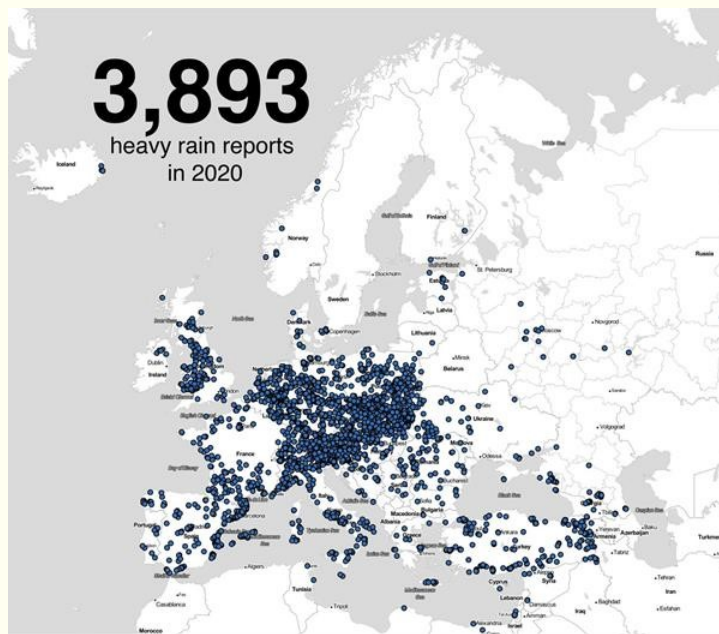
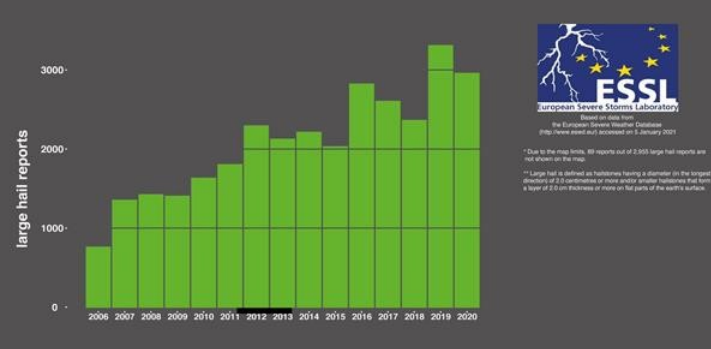
**Severe wind** - 13,050 severe wind events were reported in Europe. This is the second-largest number of severe wind events reported in one year since 2006 (17,226 in 2017). Severe wind events were associated with 272 injuries and 61 fatalities.



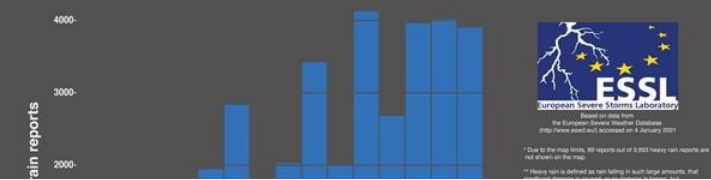
**2.955**

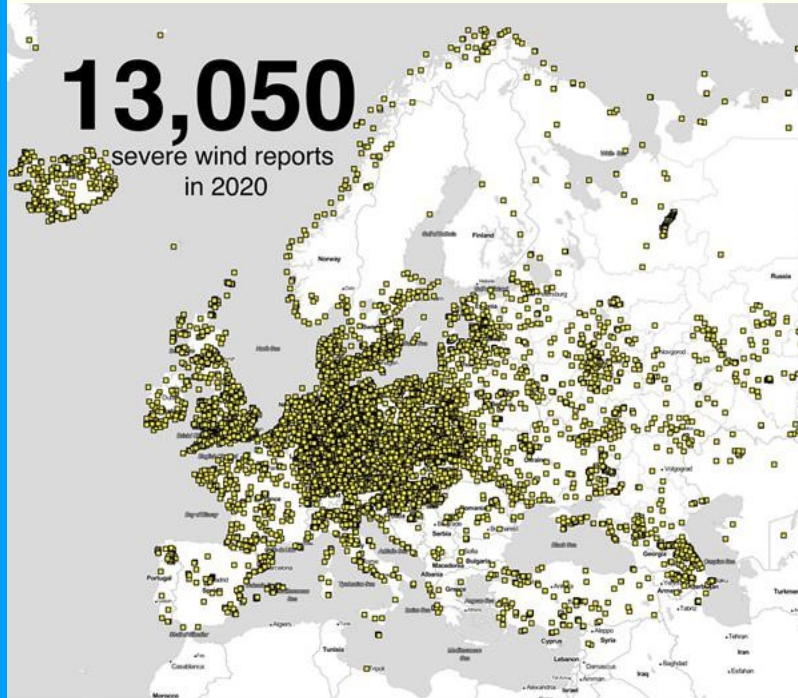
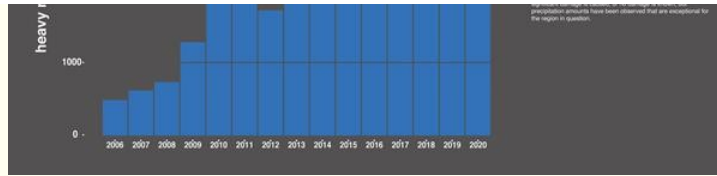


In 2020, 2,955 "large hail" events were reported in Europe. This is the second largest number of hail events reported in one year since 2006 (3,306 large hail events were reported in 2019). Large hail was associated with 1 injury and 1 fatality in 2020.

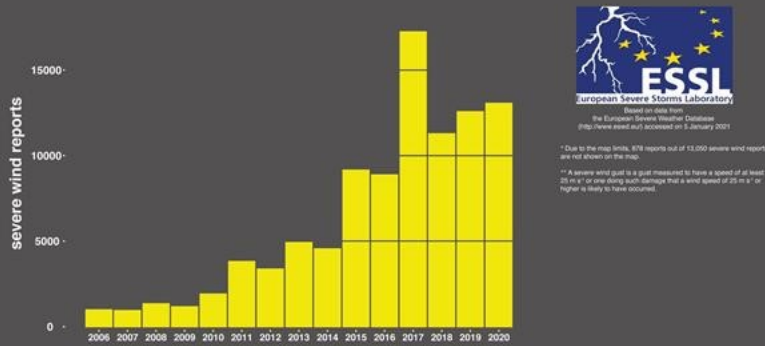


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In 2020, 13,050<sup>1</sup> severe wind<sup>2</sup> events were reported in Europe. This is the second-largest number of severe wind events reported in one year since 2006 (17,226 severe wind events were reported in 2017). Severe wind events were associated with 272 injuries and 61 fatalities in 2020.



## Job vacancy at ESSL

We are looking for a researcher to study the relation between (severe) thunderstorms and climate change. The position is for two years initially and based in Germany, to support its work in the research project [CHECC](#) on severe thunderstorms and climate change at 75% of a full position.

Provided that subsequent funding is found, the employment may be continued beyond the two-year period, and could be made permanent. As a researcher at ESSL, you will be part of a small international team of ESSL which has become an important centre of competence in Europe with regard to severe convection.

We are looking for a person who has a Master or Ph.D. degree or equivalent in meteorology, physics, or a related discipline, who is enthusiastic about severe weather research. A well-organized, reliable, and communicative character is expected.

Details about the CHECC project and what we offer as well as the requirements for the position can be found [here](#).

Applications are open until February 28th.

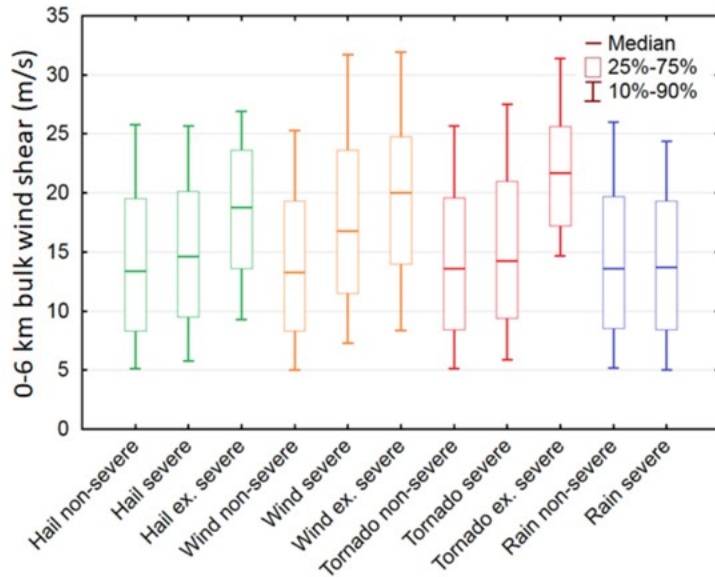
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## Recent publication by ESSL

ESSL scientists Tomáš Púčik and Pieter Groenemeijer in collaboration with ECMWF's researcher Ivan Tsonevsky published an extensive study on relationship between vertical wind shear and convective storms. This [Technical memorandum](#) is an excellent follow-up to the



previous [one](#) that gives an overview of CAPE and CIN provided by NWP models for operational forecasting.



Box plot of distribution of 0–6 km bulk wind shear values in different types and severities of convective storm hazards. From Púčik et al. (2015).



## ESSL training calendar and Testbed 2021

Date(s)	Event	
(click on the respective link for more information)		
19 – 23 April 2021	<b>Forecasting of Severe Convection</b> online course exclusively for Regione Marche – Servizio Protezione Civile (Italy)	
3 – 7 May 2021	<b>Forecasting of Severe Convection I</b> by ESSL staff (Dr. Tomas Pucik, Dr. Christoph Gatzen)	Early bird fee until 28 Feb 2021.
14 – 18 June, 21-25 June, 5 – 9 July, 12 – 16 July	<b>ESSL Testbed 2021</b> in Wiener Neustadt, Austria or online, if needed	

6 - 10 Sep 2021	<b>EMS Annual Meeting: European Conference for Applied Meteorology and Climatology</b> co-sponsored by ESSL, in Barcelona, Spain
4 - 8 October 2021	<b>Aviation Forecasting of Severe Convection</b> by Dr. Tomáš Púčik
2022	<b>ECSS2021 - 11th European Conference on Severe Storms</b> Will be rescheduled in in Bucharest, Romania 2022

Unsure which course to attend? [Try our online quiz!](#)

For further information about the registration for these events, please contact us at: [events@essl.org](mailto:events@essl.org)

Or approach us for [tailored trainings or forecaster training on-the-job](#).

**Notice** - Events in 2021 until the end of May will take place online because of the continuing COVID-19 situation. For the Testbed and autumn courses, we will inform participants 2-3 months in advance whether the activities will take place on-site or online.



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