Course: Damage assessment of extreme wind events **Mon, 8 Sep 2025 14:00 to Thu, 11 Sep 17:00** Schedule as of 8 Sep. 2025

Monday	
14:00	Welcome and introduction round (Alois Holzer)
14:15	Review of current state of damage assessment in Europe and worldwide (Alois Holzer)
14:45	Introduction to the IF Scale – part 1: Motivation and history, properties, wind speed definition, and IF-scale speeds (Pieter Groenemeijer)
15:30	Coffee Break
16:00	Discovery challenge/exercise (Alois Holzer): A case with different data sources available – what kind of DIs do you come across, what can be used?
17:00	End of program

Tuesday		**Wednesday**		**Thursday**	
09:00	Basics of surveying wind damage – timing, recording of DIs and DoDs, treefall directions and transported debris. (Pieter Groenemeijer – IF doc 4.1) Practical introduction to the ESSL wind damage rating app (Pieter Groenemeijer)	09:00	The physical nature of wind phenomena – part 2 (Tomas Pucik)	09:00	IF Scale damage indicator inventory for trees including an exercise (Alois Holzer)
		09:30	IF Scale damage indicator inventory for built and designed structures – what makes buildings vulnerable, what causes failure? (Pieter Groenemeijer)	09:45	IF Scale rating based on limited source material (media reports / in the context of ESWD reports). How can this be done? Including group exercise (Thilo Kühne)
09:30	Rating a tornado or wind event (intensity) Determining the nature of an event Track length, width, and number of events The importance of cross sections (Pieter Groenemeijer – IF doc 4.2 to 4.4)	10:00	Exercise for structural elements, roof structure, non-structural elements, failing anchoring. When to apply weakness reduction? (Alois Holzer and Pieter Groenemeijer)	10:30	Coffee break
		10:30	Coffee break	11:00	IF Scale rating with focus on vegetation and use of satellite data. How can this be done with limited source material? Including group exercise (Igor Laskowski)
10:00	Coffee break	11:00	Specific considerations about IF Scale damage indicators 3.3 and 3.6 to 3.20 including exercises. (Pieter Groenemeijer and Alois Holzer)	11:45	Experiences from the course participants – how did you work so far?
10:30	Outdoor demonstration with drone application for wind damage surveys (Alois Holzer)				
12:30	Lunch break	12:30	Lunch break	12:30	Lunch break
14:00	Physical nature of damaging wind phenomena – part 1 (Tomas Pucik)	14:00	Group exercise: Organise a disaster survey. How? What is most important? The specifics of a ground survey in areas hit by large and catastrophic events: Strategy and planning, governance, logistics and access, safety and health issues, required equipment and identification … based on ESSL's Organizational Guide to Wind Damage Surveys. (Tomas Pucik and Alois Holzer)	14:00	Exercise: Application of the IF Scale rating framework based on photo material on both a very old and a more recent case. (Alois Holzer, all)
14:45	Coffee break				
15:00	Case study with hands-on: The South Moravia Tornado of 24 June 2021. From aerial imagery (drone, aircraft) to site survey on the ground – importance of different techniques for damage assessment (Tomas Pucik)			16:30	Wrapup of the workshop
17:00	End of program	17:00	End of program	17:00	End of the workshop