

COST Action no. FP1106



2012 | 2016

Objectives

- Understanding processes behind responses to extreme climate conditions in European trees and forests.
- Building an integrated network of scientists working in tree biology, ecophysiology, dendrochronology, wood sciences, forest ecology, forest genetics, and forest management.

Main Achievements

- STREESS establishes a platform to survey and integrate information about how stress affects tree growth and wood anatomy from field studies, provenance trials and laboratory experiments. This enables a review of the state-of the art of research on climate-related stress effects on European tree species.
- STReESS discusses, evaluates and integrates available parameters and models currently used to improve mechanistic understanding of stress response in trees at different time scales.
- STReESS identifies research priorities and defines a European-wide research concept to promote activities on the study of tree responses to extreme climatic events.

Working Group 1

Establish a platform to survey and integrate information about stress response to extreme events on tree growth, wood anatomy, and ecophysiology from field studies, provenance trials and laboratory experiments.

Working Group 2

Review the integrated mechanistic processes of tree responses at different time scales. Available models at different scales will be verified, discussed, and compared. The effect on wood production and quality, as well as on future tree performance will be discussed and summarized.

Working Group 3

Identification of existing knowledge gaps on tree response to environmental stress which may include regional data gaps, as well as scale-, species-, topic-, and parameter-specific, and methodological issues. Results will form the scientific bases of a comprehensive research proposal draft.

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Forests, their Products and Services (FPS)

Participating countries

AT, BA, BE, BG, CH, CZ, DE, DK, EE, ES, FI, FR, GR, HR, HU, IE, IL, IS, IT, LU, NL, NO, PL, PT, RO, RS, SI, SK, SE, TR, UK, RUS, AUS

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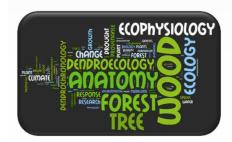


Image caption: STReESS expertise



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