ESP 11 World Conference

"From global to local ecosystem services: pathways to Nature-based Solutions inspired from Down Under"

23-27 June 2025 | Darwin, Australia

SESSION DESCRIPTION

ID: O8

From macro to micro scale: study of ecosystem services with a view of plant functional trait

Hosts:

	Name	Organisation	E-mail
Host:	Changhong Su	Faculty of Geography, Tianjin Normal University	sxjcsch@hotmail.com
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Abstract:

Understanding the mechanisms underlying ecosystem services is helpful in maintaining the sustainable supply of ecosystem services. Plant functional traits directly participate in a variety of ecosystem processes, which in turn affect the supply of ecosystem services. Currently, the major ecosystem services analyzed from plant functional traits include NPP, soil conservation, water conversation, water filtration pollination-biocontrol services. Revealing the relationship between plant functional traits and ecosystem services is an important way to understand the formation mechanism of ecosystem services. The plant functional traits that affect different ecosystem services and their underlying mechanisms need to be explored, e.g., the linkages between the economic spectrum of plant functional traits ranging from exploitive to conservative and the tradeoff/synergy relations among ecosystem services. The impacts of climate change, human activities, scales dependences of the relationship between plant functional traits and ecosystem services need to be further explored. I hope plant functional traits-based ecosystem services get wider attention in the new future.

Goals and objectives of the session:

Decipher the mechanism between plant functional traits and ecosystem services

Planned output / Deliverables:

A summary report of the current status of plant functional traits-based ecosystem services researches

Voluntary contributions accepted:

Yes, I allow any abstract to be submitted to my session for review

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