Live session at the IUFRO World Day (Webinar)

Role of Data, Inventory, Model in Sustainable Forest Management in Asian Forests

Division 4 - Forest Assessment, Modelling and Management –

Unit 4.00.00

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29 September 2021, 03:15 – 04:00 UTC

Taipei, China-Taipei (on the IUFRO World Day Map)

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ABSTRACT

Inventory designs and data collection and sharing are some of the first steps towards sustainable forest management with models developed as tools for decision making during the planning process. Forest industry in Asia sometimes rely on forest certification process to help achieving sustainability. This session first explores some of the common on-the-ground problems found during forest certification process from an expert in the industry and discusses possible solutions through improved inventory and modeling efforts. From this point forward, the session looks at how data sharing of long-term experimental data across the Asia region by a consortium of university could lead sustainable forest

management. A landscape biodiversity inventory project is introduced to see how a cross-disciplinary inventory could be set up with the aim to understand underlying ecological processes affecting ecological corridors on a national level.

Lastly from modeling perspective, the session looks at how advance statistical methods such as artificial intelligence could help with mapping spatial distribution of species diversity integrating inventory information of different resolution.

KEYWORDS

- Forest Assessment
- Forest Inventories
  - Biodiversity
- Forest Mensuration

SPEAKERS

Lilian Chua

Improving Connectivity of the Central Forest Spine Landscape (IC-CFS) Project in Peninsular Malaysia. (Malaysia)

Toshiaki Owari

Collaborative Research Activities within Asian University Forests for Long-term Growth Monitoring. (Japan)

Szu-yin Lin

Walking through pulp and paper supply chain and see where modeling can help to improve the accuracy of FM's COC data monitoring. (China-Taipei)

Bo-Hao Perng

Rapid diversity assessment coupled with artificial intelligence for mapping spatial distribution of species richness. (China-Taipei)