## BOOK OF ABSTRACTS

## FORESTS & SOCIETY TOWARDS 2050





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## Role of plantation forest in hydrology: a short review

T1.10 Enhancing forest resilience for water-related ecosystem services in a changing environment **Christophe Oarzio**<sup>1</sup>

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**Abstract:** This presentation is made on behalf of the IUFRO task force on planted forests, this will review publication related to plantation forest role on hydrology. Many aspects will be addressed, some of them are listed bellow.

- After the storm occurred in France in 1999, the reduction of forest areas induced a lower precipitation regime in the following years that has been recovered one forest has been replanted.
- In Portugal, the effect of afforestation with eucalyptus plantations compared with pine plantation did not show significant changes of fluxes in the mediterranean headwater catchment
- In FORSEE project, looking for indicator on water quality in relation to forest, scientists concluded on a very simple proxy to estimate water quality.
- In Bresil a study confirmed that depending on the management intensity, the dryness index and the ratio of eucalyptus in the landscape, we can evaluate eucalyptus plantation impact on water catchments.