

Stand-alone simulations with the TERRA module for high vegetation with included interception

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Present state without interception





Current formulation of interception



















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Conclusions

- The implemented interception approach works well in our offline runs. Its typical functionality is illustrated. In some cases the interception clearly exceeds the plant transpiration in the diurnal cycle.
- The interception processes do not remove the problem of the relatively moist model soil in our offline simulations for coniferous forest.
- At present, our tuning results are impaired by some problems to correctly simulate the water transfer within the soil at our forest site, especially as in case of small moisture values. Until more reliable tuning results are available, the widely used values recommended in the literature will be applied in the following numerical experiments.





Future works

- Control runs with the interception approach in the framework of the SCLM (COSMO version 4.22)
- Planning, realization and verification of a 3d experimental run with the COSMO-EU including the interception approach





Thank you for your attention !

