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**Folder results/areas**

This folder contains the results of the process used to match the results of two GLOBIOM models: the main model which projects global future land use and a model specific for EU internal wood and energy crops production and EU forest biomass import and export, as described in Rosa et al. (2022). The scripts used to produce the areas are in *scripts/data\_preparation/*.

The folders *timber* and *notimber*, contains the land use areas (in Mha) which are used in the biodiversity model (scripts in scripts\_model). The default option is “notimber”, which means that in the EU land use model no timber plantations are projected to be adopted in the areas considered by the model. “timber” means that part of areas projected by the model to be occupied by clear-cut is replaced by timber plantations. This second option is explored in the sensitivity analysis of Rosa et al. (2022). According to the options selected in the scripts of the biodiversity model, either the values in timber or in notimber will be loaded to calculate the species loss.

The acronym “mg” which appears in many sub-folders stands for “marginal”. “Marginal” is an option in the GLOBIOM model and means that only the most productive forest area is assumed to be imported to the EU28 (Clear-cut area in Boreal/Temperate and Plantations in the Tropics) or exported from EU28 (Clear-cut area), given economical advantage of intensive management. This option was selected because according to IIASA’s experts it appeared the most likely.

The folder *NotRel-Wet* contains files with land use areas as well. Differently from timber and notimber, these files include the land use areas of the categories Not relevant land and Wetland as defined by GLOBIOM. In the matching under the default settings (timber or notimber), the areas of these land use categories are removed, as they have no corresponding category in the biodiversity model and are not productive lands. Nevertheless, they are needed to plot future global land use maps that reflect GLOBIOM outputs (Figure S14.2 of Rosa et al. (2022)), so *do\_tidy\_match.R* allows the user to select an option which does not remove these land use classes and their areas during the matching. The results, saved as .csv files, are stored in *NotRel-Wet/mg/*. The sub-folder *check\_area\_share/* contains files, scripts and plots used to check that the fraction of Not relevant land and Wetland areas in the world ecoregions were not too high where the results for species loss showed a large PDF. Not including some unproductive areas of an ecoregion when applying the biodiversity model might cause an overestimation of the impacts, therefore it was important to verify that the highest share of Not relevant land and Wetland did not occur where the model projects large impacts.

The files areas-to-match.Rdata and areas-to-match-timber.Rdata were produced by tidy\_areas.R and are the input of the function match\_areas.R. areas-to-match.Rdata contains the areas under the default settings. areas-to-match\_timber.Rdata contains instead the areas including the option “timber”, as described in the second paragraph of this document. In do\_tidy\_match.R it is possible to select which option to consider (with or without timber plantations) and adjust other settings.