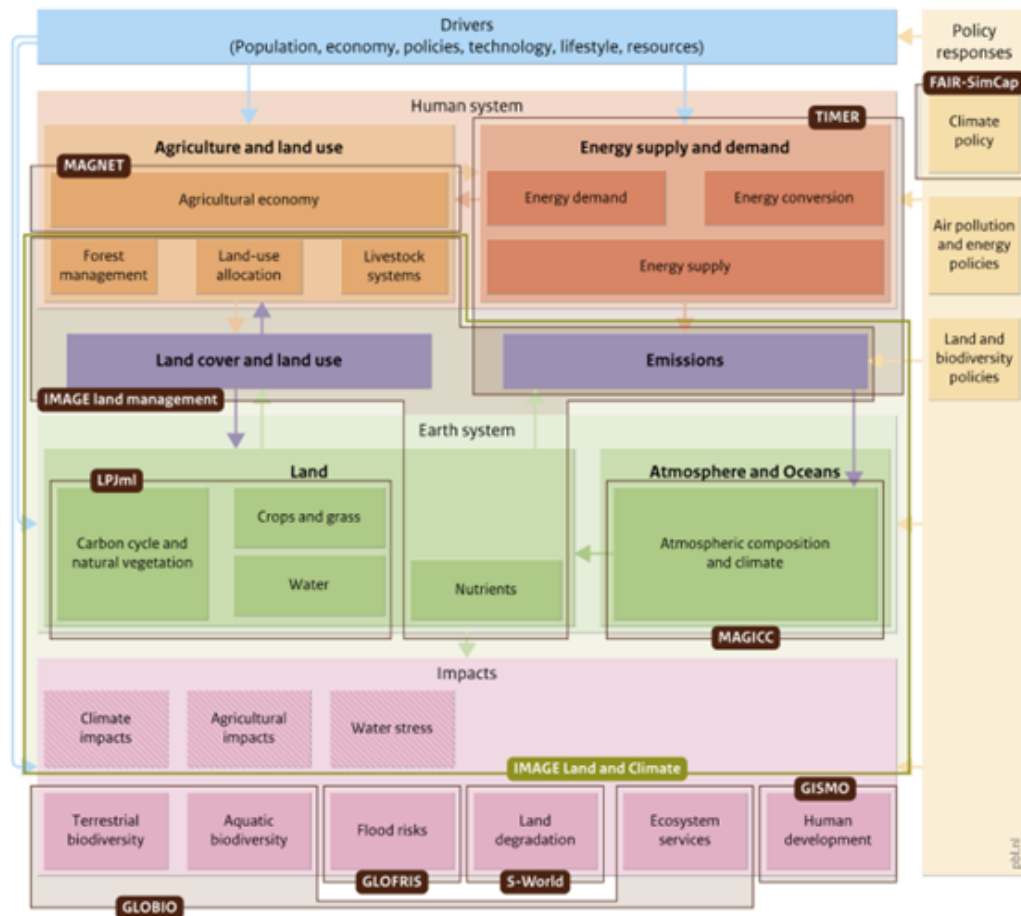


Supplementary materials



Source: PBL 2014

Figure S.1: The IMAGE Integrated Assessment Model. Reproduced from (Stehfest et al., 2014) © PBL Netherlands Environmental Assessment Agency The Hague, 2014.

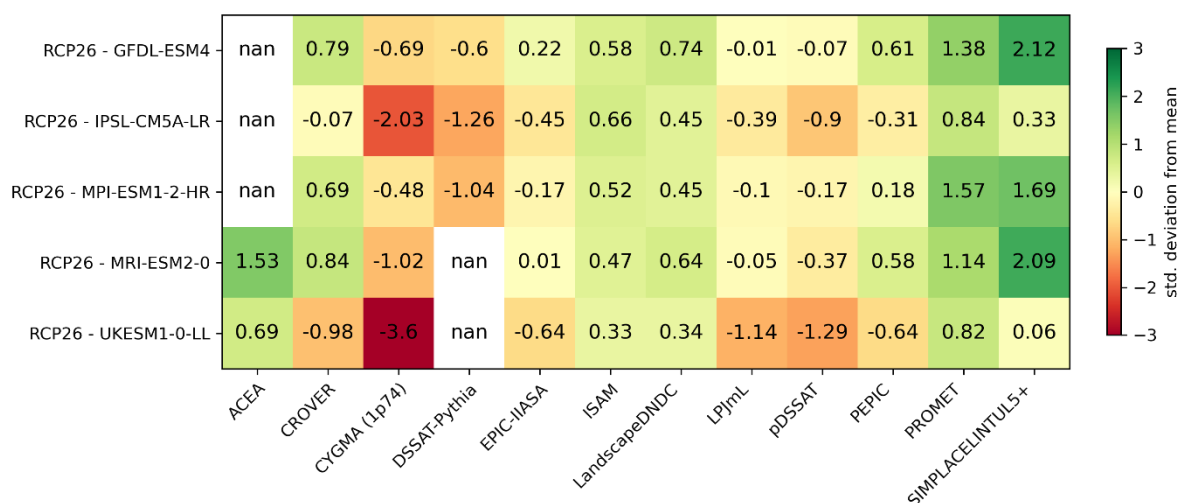


Figure S.2: Standard deviation from the global mean crop productivity changes between 2070-2100 under RCP2.6. Weighted by regional production for four main crops.

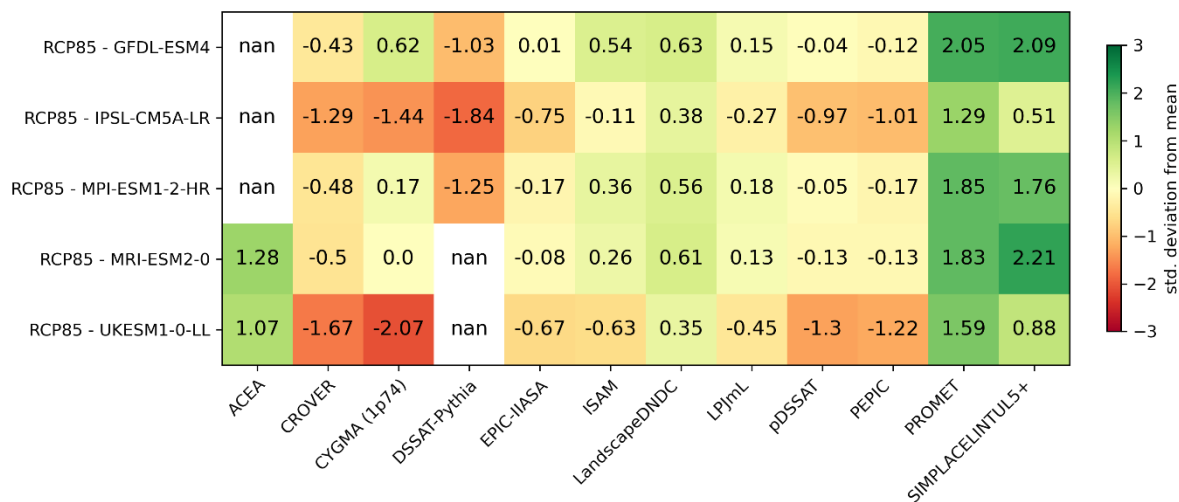


Figure S.3: Standard deviation from the global mean crop productivity changes between 2070-2100 under RCP8.5. Weighted by regional production for four main crops.

Table S.4: Aggregation of high-, medium- and low income IMAGE regions

High income	Medium income	Low income
Canada	Rest of central America	Western Africa
United States	Brazil	Eastern Africa
Mexico	Rest of south America	South Africa
OECD Europe	Northern Africa	India
Eastern Europe	Turkey	South-East Asia
Korea	Ukraine +	Indonesia +
Japan	Asia-Stan	Rest of south Asia
Oceania	Middle East	Rest of Southern Africa
	China	
	Russia	

Change in global wheat yields under RCP85

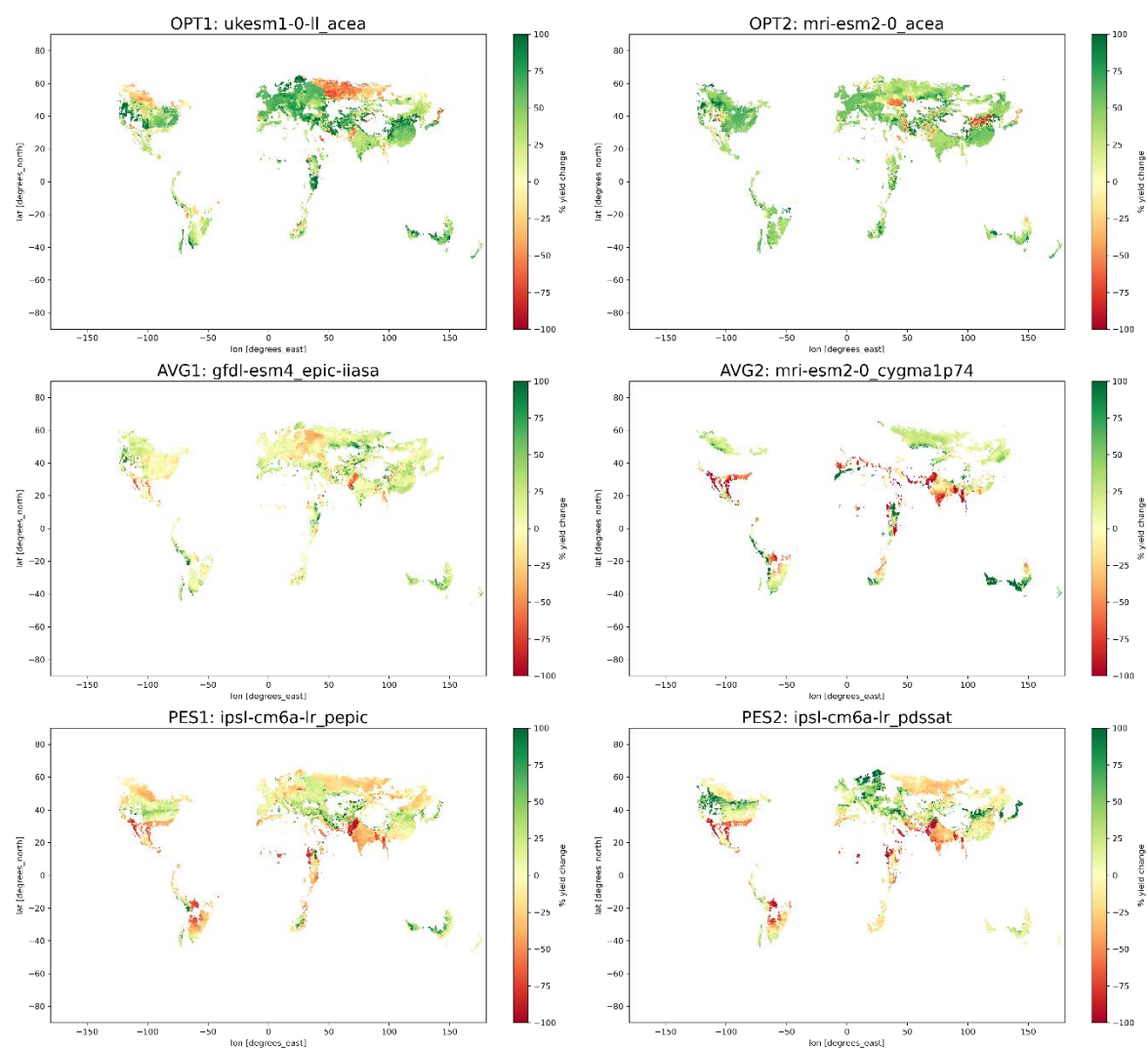


Figure S.5.1: Average change in global wheat yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP8.5 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

Change in global soybean yields under RCP85

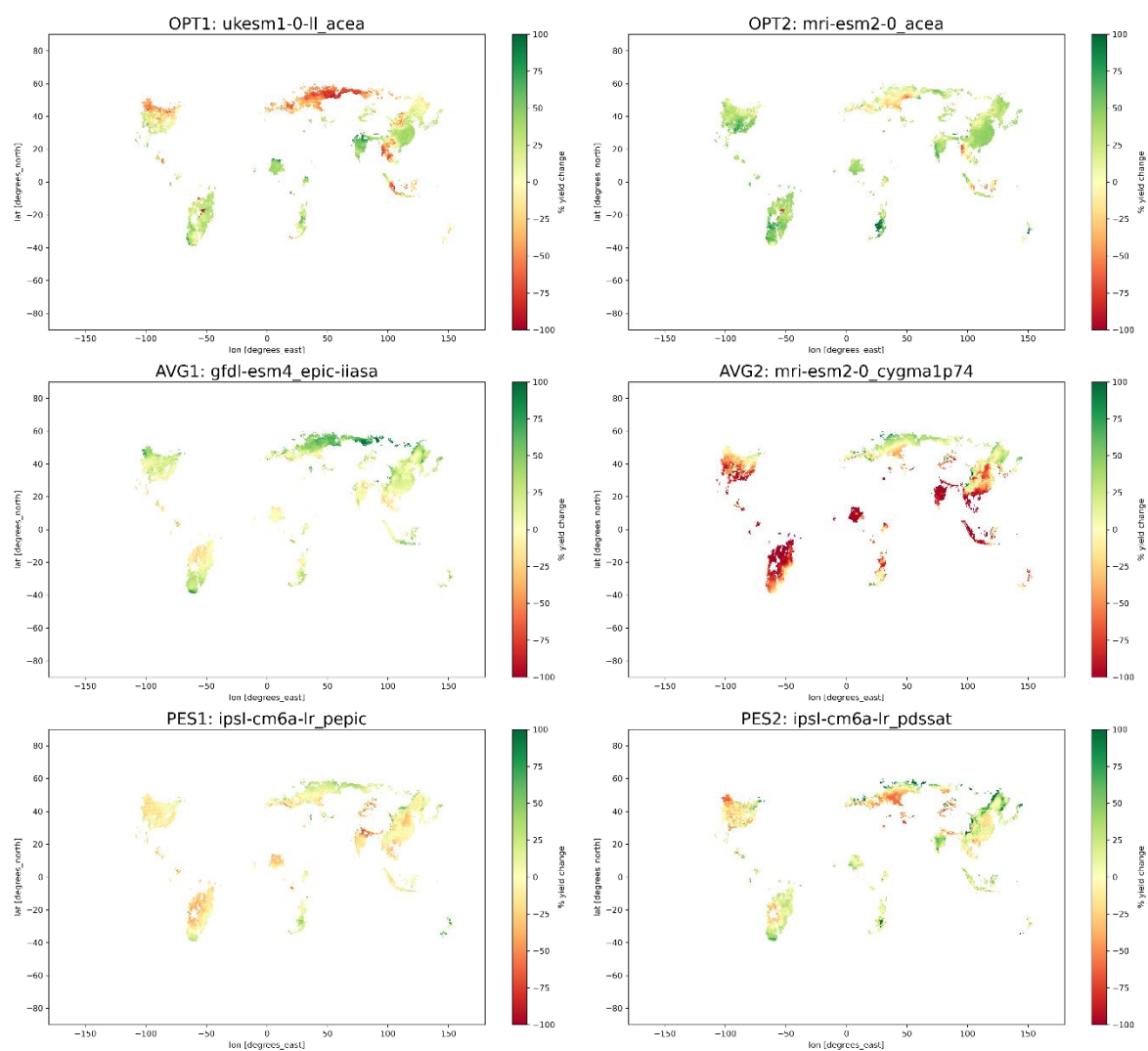


Figure S.5.2: Average change in global soybean yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP8.5 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

Change in global rice yields under RCP85

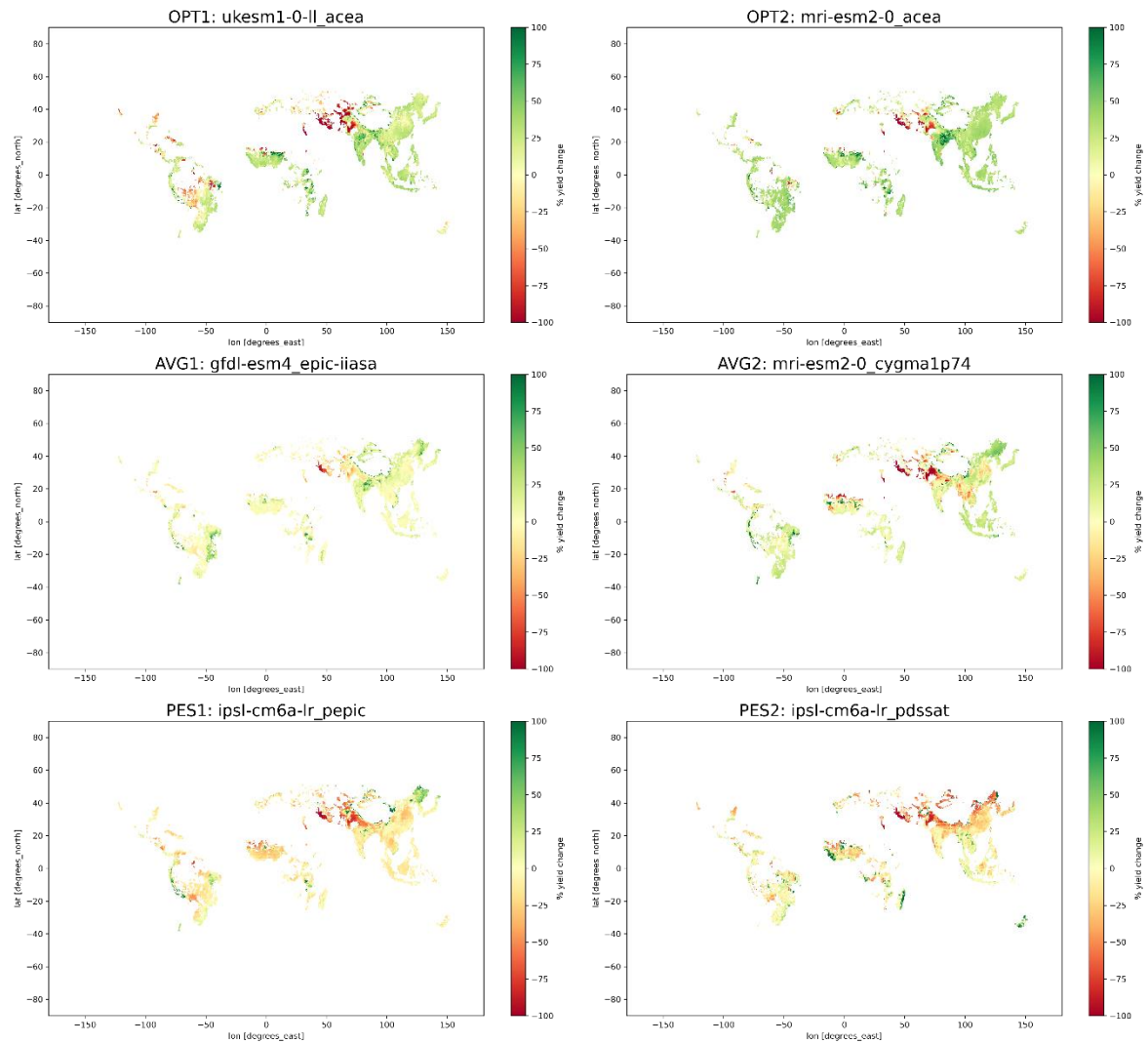


Figure S.5.3: Average change in global rice yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP8.5 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

Change in global maize yields under RCP85

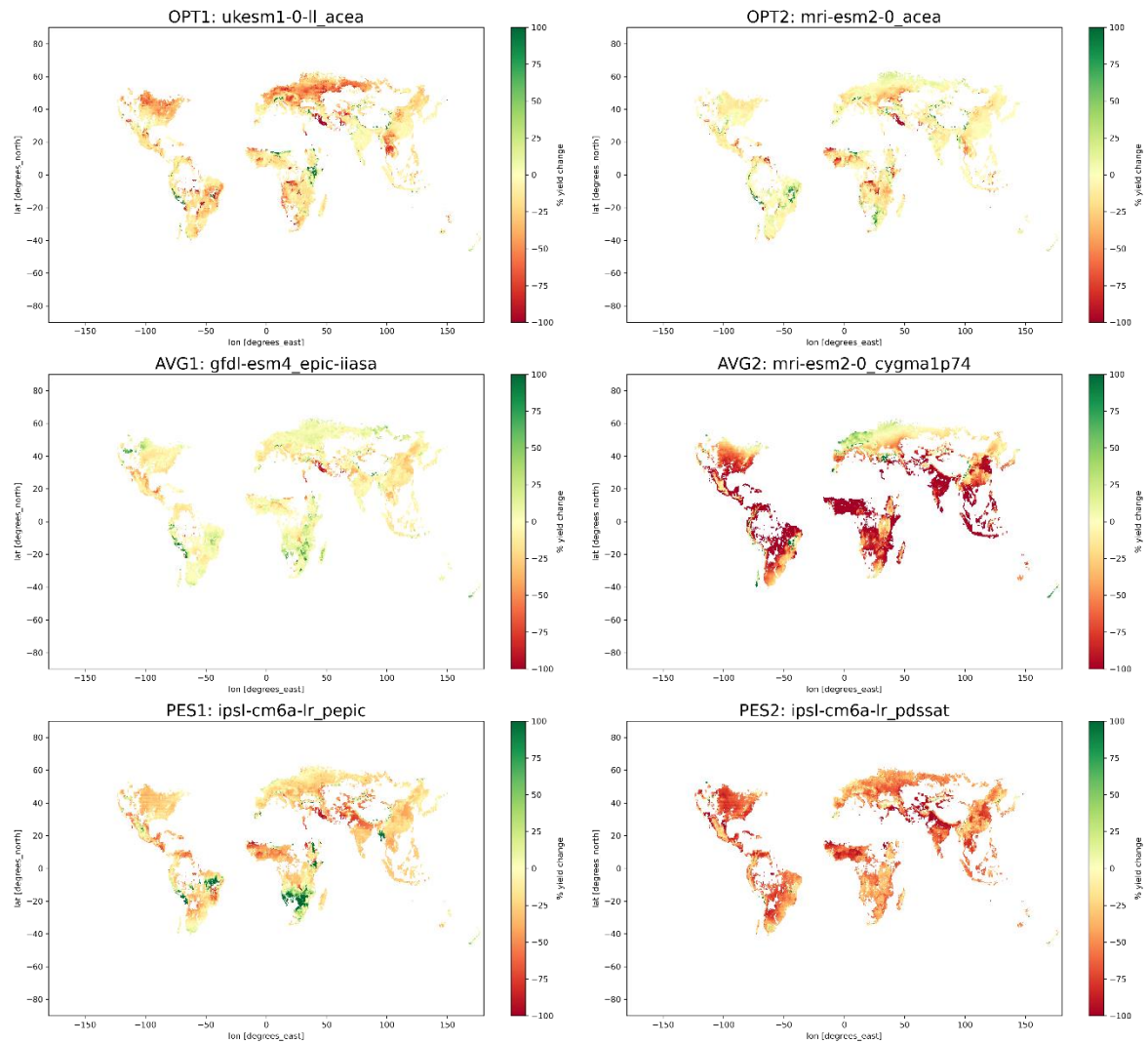


Figure S.5.4: Average change in global maize yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP8.5 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

Change in global wheat yields under RCP26

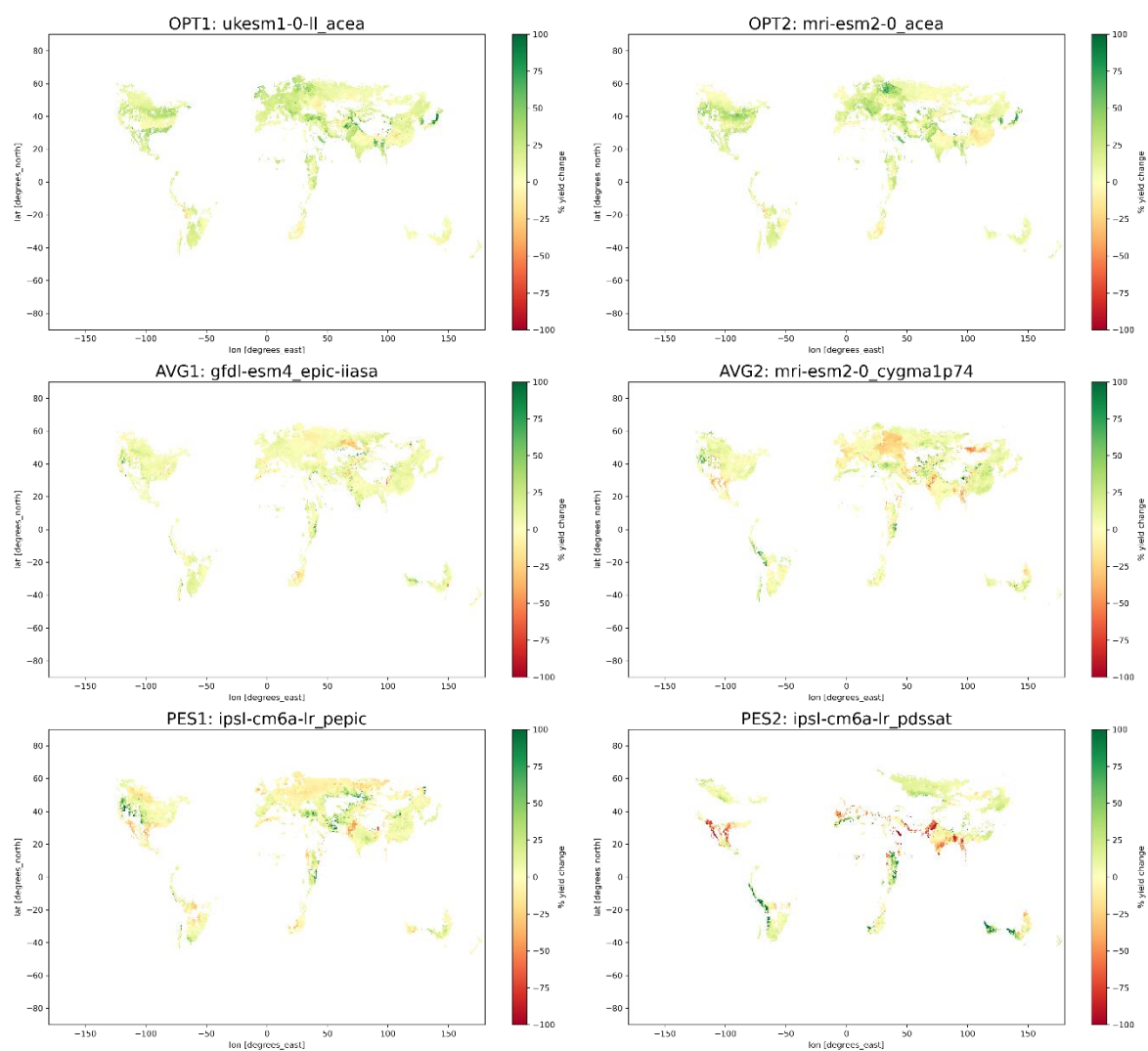


Figure S.6.1: Average change in global wheat yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP2.6 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

Change in global soybean yields under RCP26

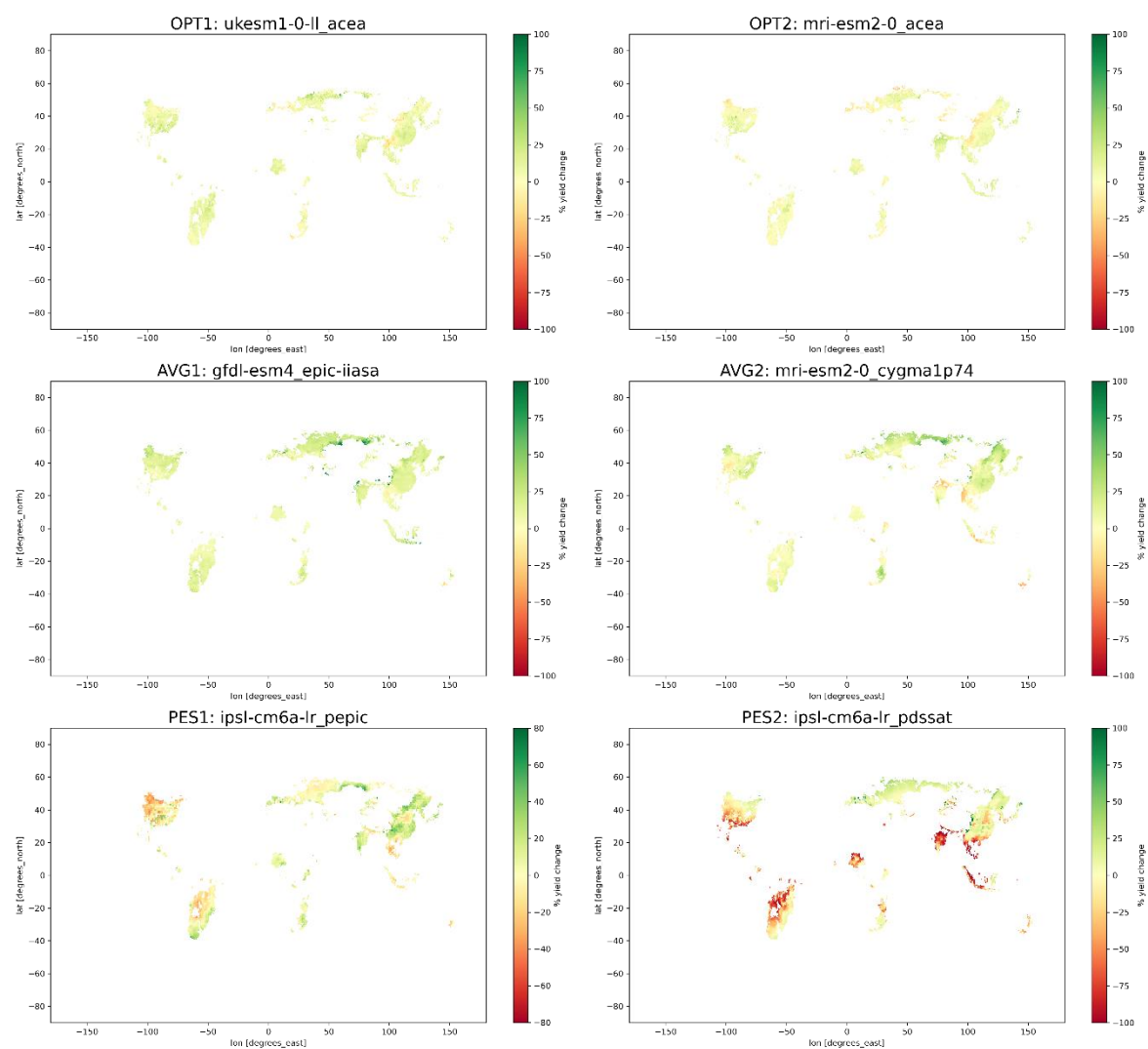


Figure S.6.2: Average change in global soybean yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP2.6 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

Change in global rice yields under RCP26

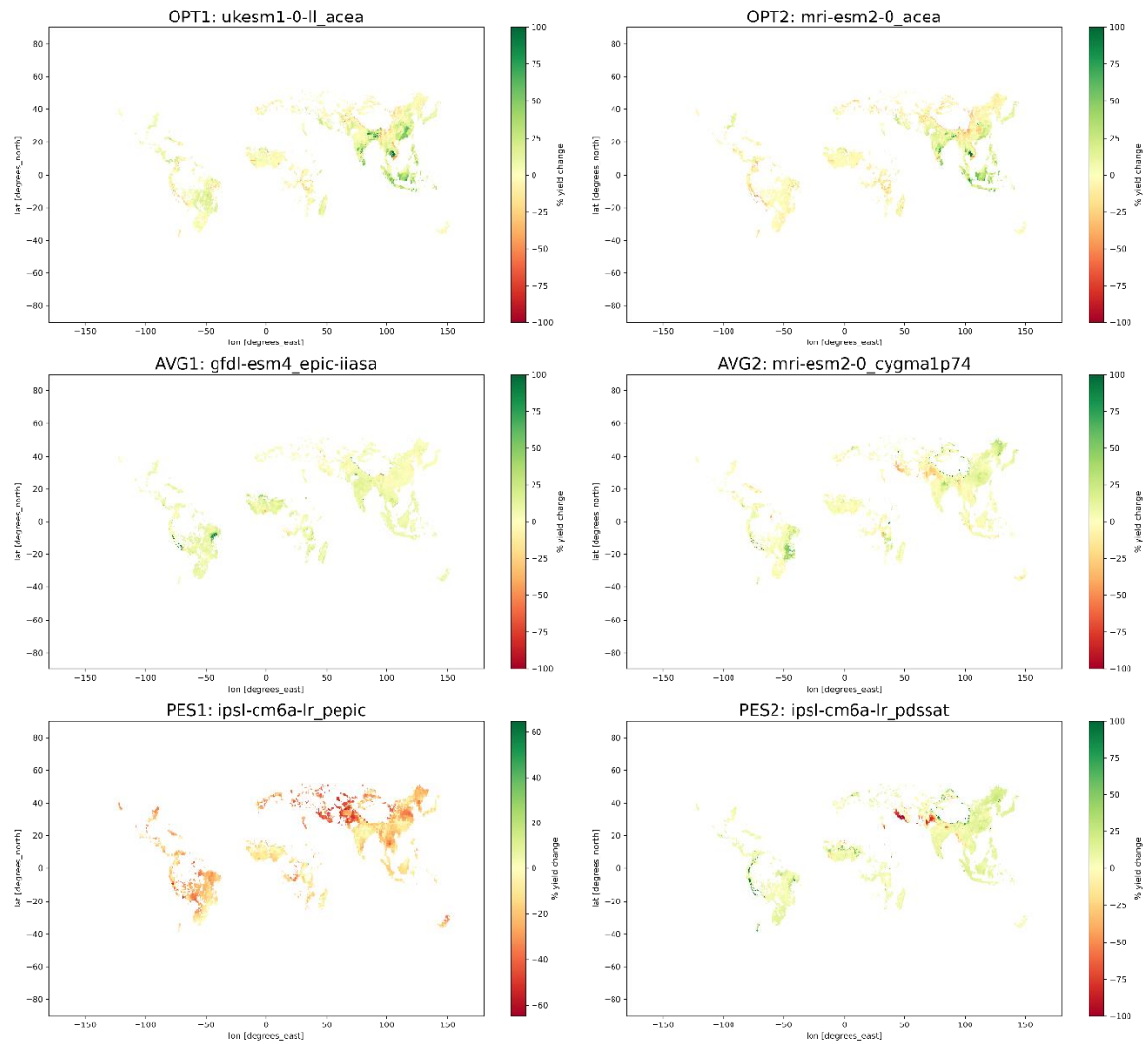


Figure S.6.3: Average change in global rice yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP2.6 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

Change in global maize yields under RCP26

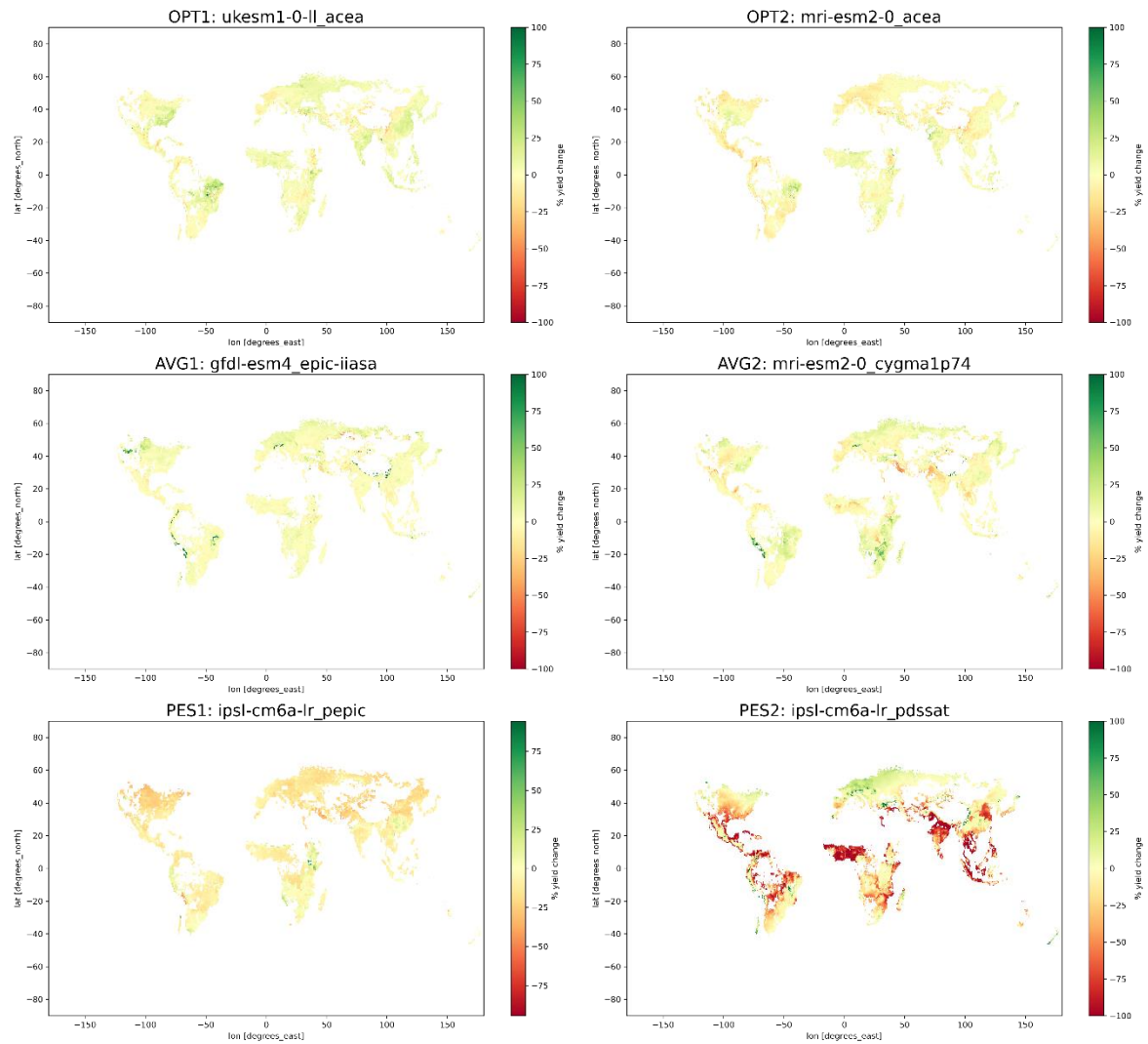


Figure S.6.4: Average change in global maize yields between the reference period (1970-2020) and the end of the century (2070-2100) for the subset of six selected climate-crop combinations under a RCP2.6 climate scenario. Reproduced from (Jägermeyr et al., 2021), with permission from Springer Nature.

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