

Global Energy Policy Research | GEPR

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IPCC

Monday, April 25th, 2022

impact



NicoElNino/iStock

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There is *high confidence* that climate change and projected socio-economic development would increase exposure in inundation areas (Figure 4.17), resulting in a large increase in direct flood damages as several times more in all warming levels (Table 4.6). (Alfieri et al., 2017) estimated a 120% and 400% increase in population affected by river flooding for 2°C and 4 °C warming, respectively, and a 170% increase in damage for 2°C warming without socio-economic impact development (4.7.5). (Dottori et al., 2018) estimated the same but with a 134% increase in fatalities with population increase under the SSP3 scenario. The highest numbers of people affected by river flooding are projected for countries in southern, eastern and south-eastern Asia, with tens of millions of people per year per country projected to be affected (Figure 4.17; (Alfieri et al., 2017; Hirabayashi et al., 2021b). (Kinoshita et al., 2018) showed that climate change

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