



New projections of 21st century extreme sea level around the United Kingdom coastline

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Previous simulations have indicated some potentially large increases in extreme water levels around the United Kingdom coastline during the 21st century. With present standards of defence such changes are likely to cause significant impacts. The Met Office Hadley Centre and the Proudman Oceanographic Laboratory have worked together to produce an updated assessment of the effect of 21st century changes in storminess on extreme sea levels, addressing many of the limitations of previous studies. In particular, this study avoids the time slice approach and attempts to quantify the uncertainty in driving meteorology simulated in the climate models. The projected changes in surge extremes differ from the widely used UKCIP02 results. In this presentation these new results are discussed and surge changes are related to the large-scale changes in storminess.