

Figure. Left: Annual mean of combined wave and tide bed shear stress for 1997-2017. Right: ratio of mean wave-only stress to combined wave and tide stress. Regions with high ratios are wave-dominated, whereas regions with low ratios are tide-dominated. Bed shear stress was calculated using the equations of Soulsby and Clarke (2005) and tidal inputs from the Scottish Shelf Model and wave inputs from the ERA-interim reanalysis.

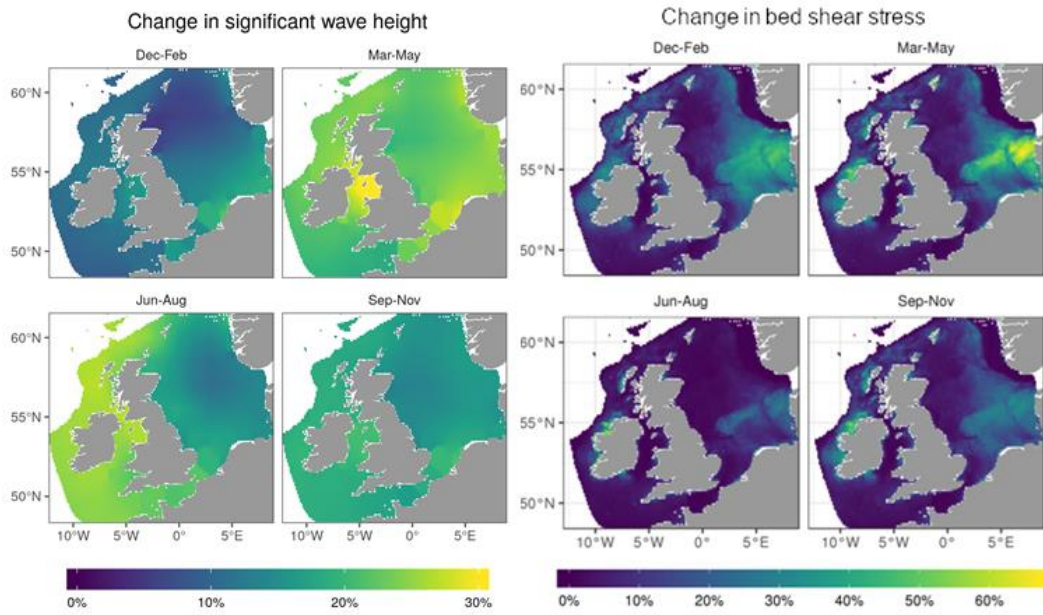


Figure. Left: changes in seasonal mean significant wave height over the 20th century. Right: changes in seasonal bed shear stress over the 20th century. Changes shown are between the climatological periods 1910-1929 and 1990 and 2009. Bed shear stress was calculated over the 20th century using the ERA20c wave reanalysis and present day tidal conditions, with significant wave height calculated using the ERA20c reanalysis wave heights.