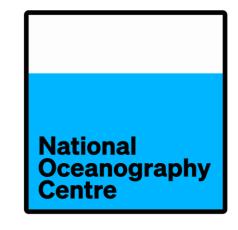
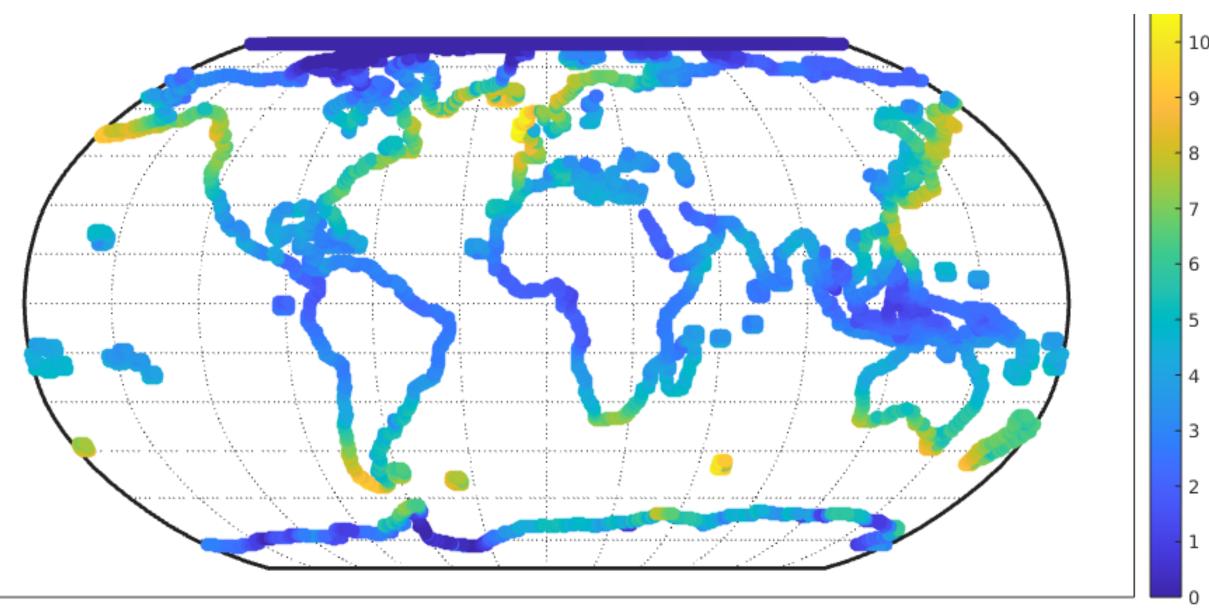
A coastal perspective of global wave trends in CMIP6

Lucy Bricheno, Ben Timmermans Joanne Williams, UK National Oceanography Centre





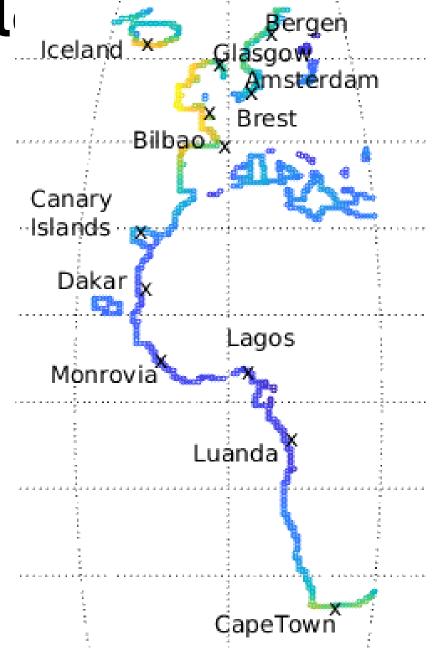
Global coastal wave trends



Model ensemble

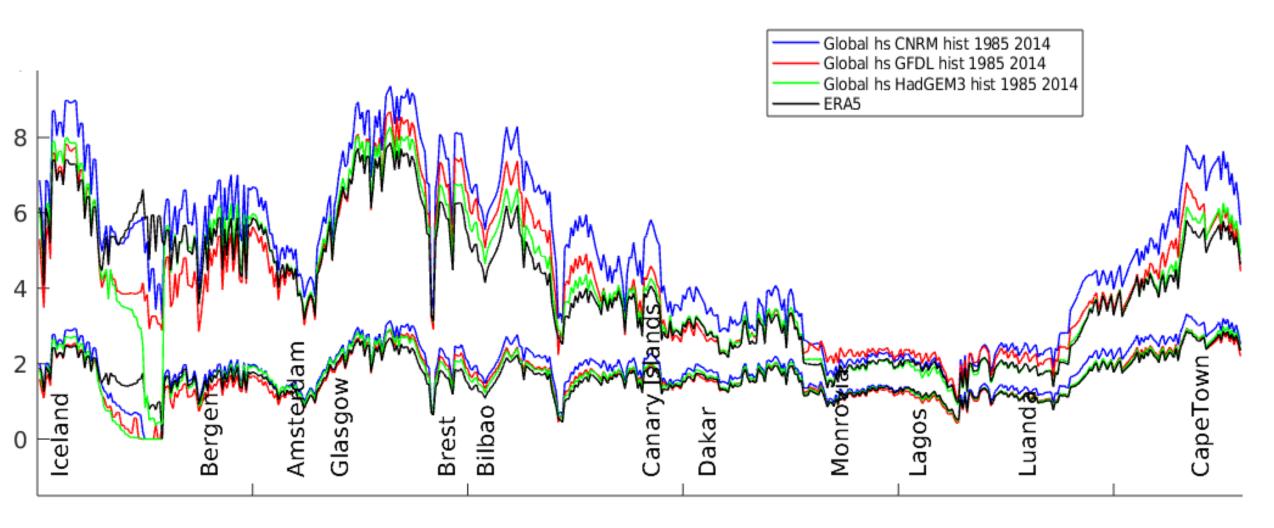
We analyse projections for mid- and endcentury change in mean and 99th percentile extreme significant wave height (Hs). Future projections for scenarios SSP126, SSP370, & SSP585; models:

ERA5 reanalysis (1 hourly) ~35 km
HadGEM_GC31_MM (3-hourly) ~35 km
CNRM-CM6-1-HR (3-hourly) ~35 km
GFDL-ESM4 (3-hourly) ~ 100 km



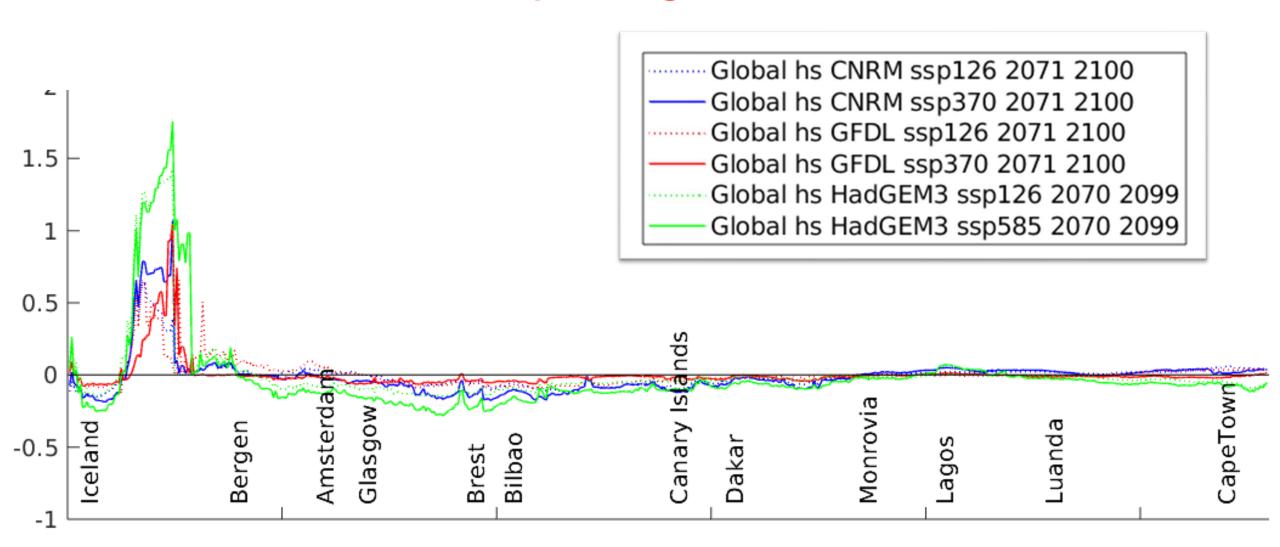
Example coastal waves: East Atlantic

Historic conditions mean and p99 Hs



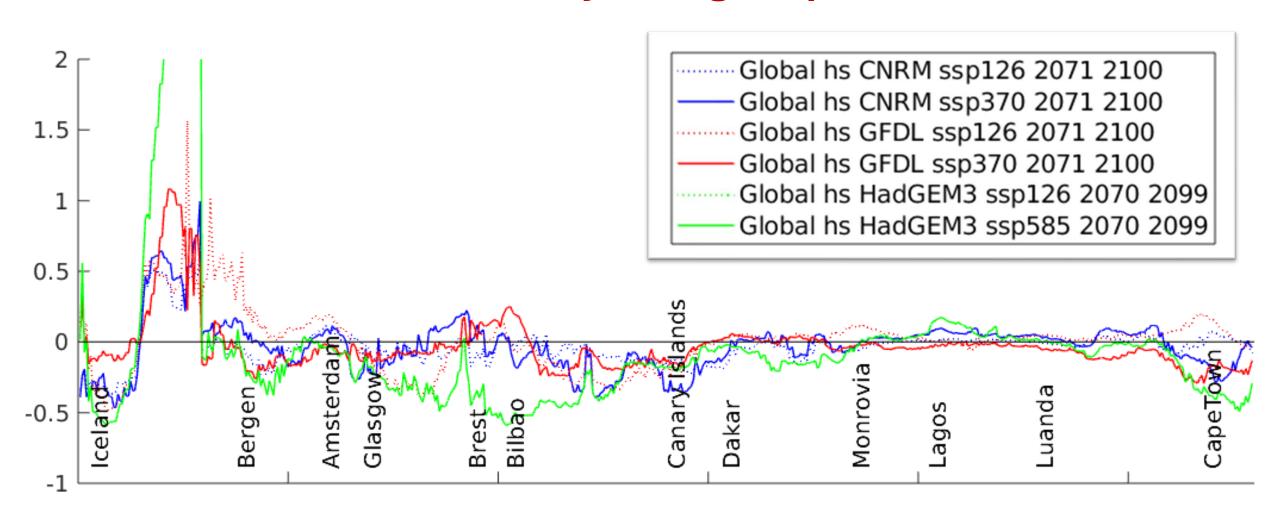
Example coastal waves: East Atlantic

End century change in mean Hs

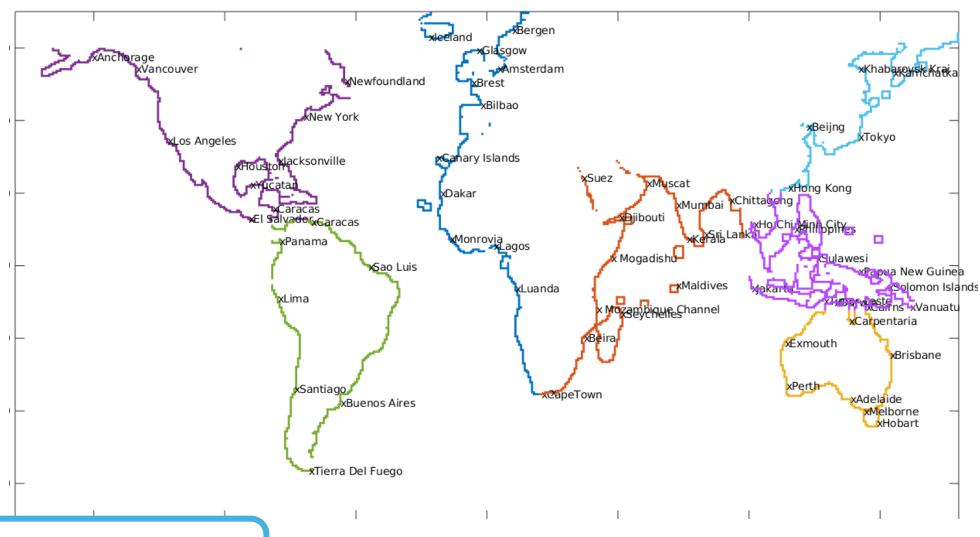


Example coastal waves: East Atlantic

End century change in p99 Hs



Come and see the rest of the word



Poster session Waves II

Thursday 25/9/2025

Lucy Bricheno, luic@noc.ac.uk