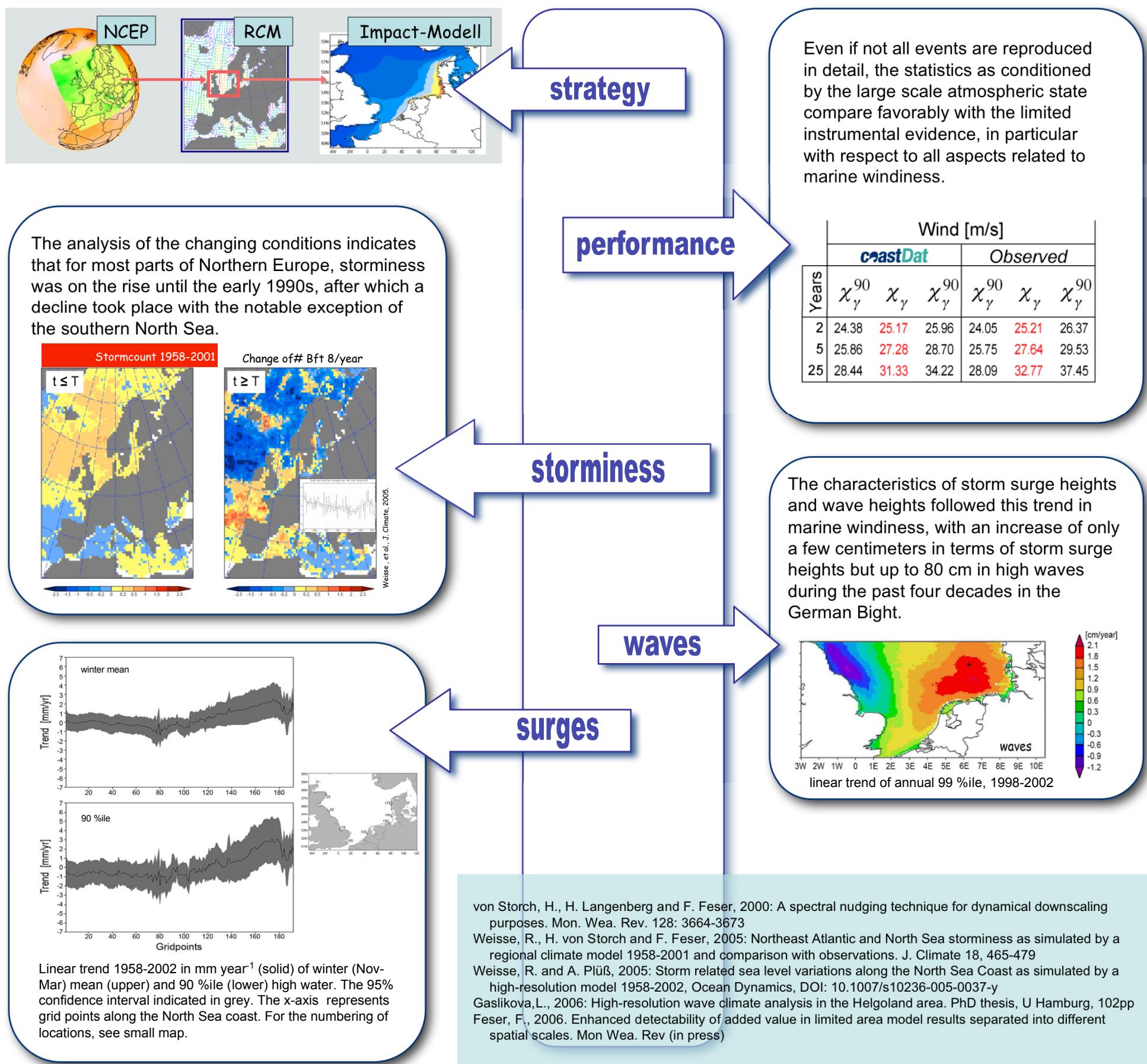


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Detailed description and assessment of coastal climate change since 1958 in N Europe

In a concerted effort of a series of quasi-realistic models of the regional atmosphere, the hydrodynamics of the North Sea and of the wave conditions, the global re-analyses of NCEP are downscaled to a high-resolution grid presentation of storminess, currents, water levels and wave heights in Northern Europe and particularly the North Sea area. In this way, the past development is described with an hourly time increment for more than 40 years (1958-2004).



The resulting hourly, high-resolution data set forms one of two major components of the data set **coastDat**, which is provided by the Institute for Coastal Research at GKSS to a variety of clients dealing with changing ecological conditions, coastal defense and offshore activity in the North Sea.