



Developing a new wave of climate services at the United Kingdom Met Office

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There is a growing evidence base of how climate services have been able to make a difference to the well being of people and natural systems, and to the prosperity of people and businesses. We will discuss how the Met Office is learning from these lessons to produce the next generation of climate services for and on behalf of Government customers. We have identified a number of tiers of climate service. The first consist of services where there is a strong fit to the institutional scientific skills of the Met Office, a strong end user need, stable funding and a critical mass of people and skills converting the science to service and taking part in co-production discussions. The second tier consists of more embryonic services, which are currently delivered on a smaller scale and are not yet fully exploiting the available science or connecting with a large enough fraction of the known potential user base. The third tier of services is where there is evidence of a user need and some relevant underpinning science available or in development but little expertise at exploiting the science for services. Funding is also more speculative or fragmented with more development of the applied science and translation aspects also needed. However, these may become the largest services in the future. At the centre of the Met Office strategy is a long-term vision where the services provide an important driver for the direction of the underpinning science. We seek to exploit the science for climate services on time-scales from a month ahead to several decades – recognising that in many situations there is both a long-term transition to a low carbon but warmer and more volatile world, but a need along that path to optimise operational decisions. This presentation will describe progress with implementing this new strategy, the lessons learned along the way and include a diverse range of examples of these climate services.