

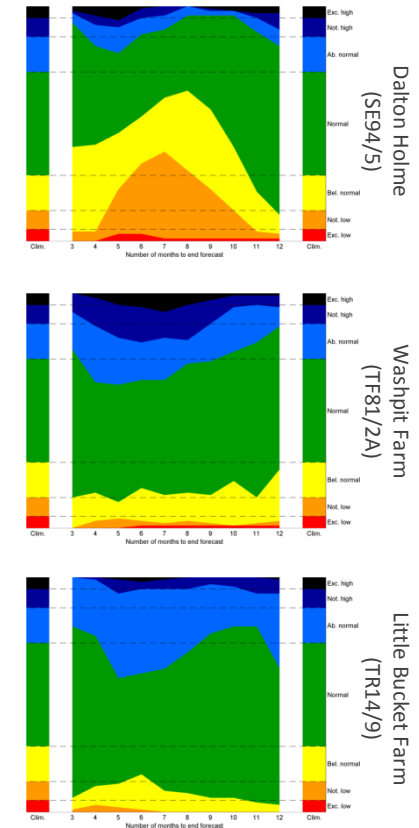
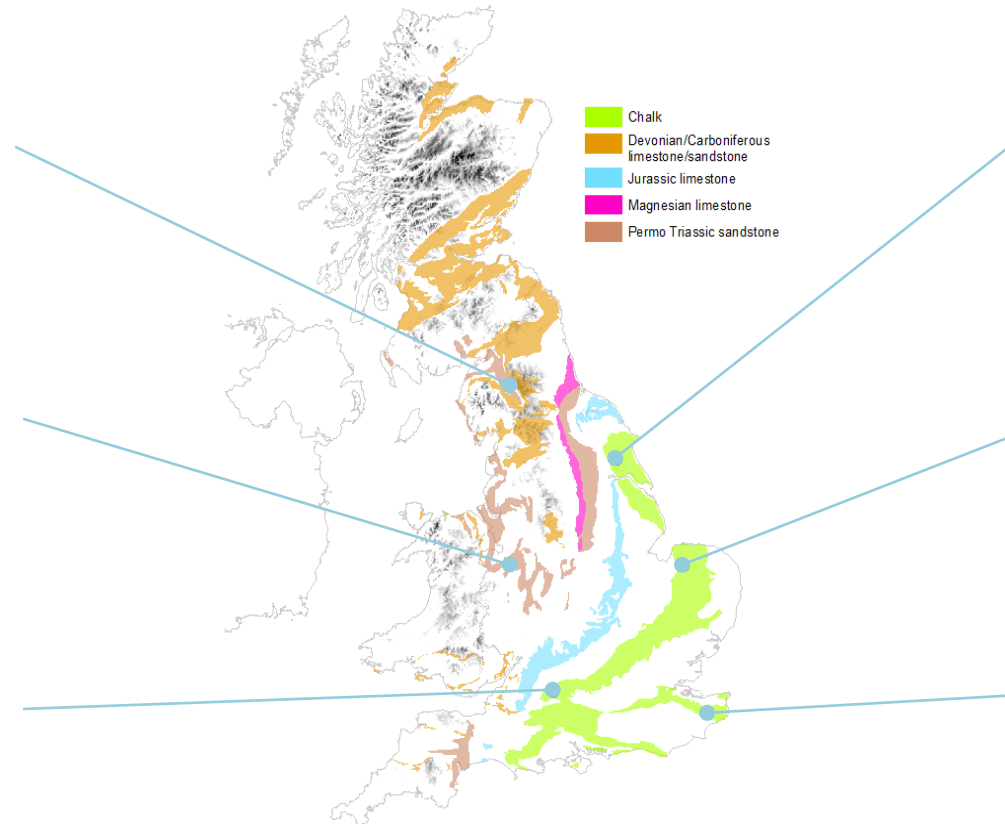
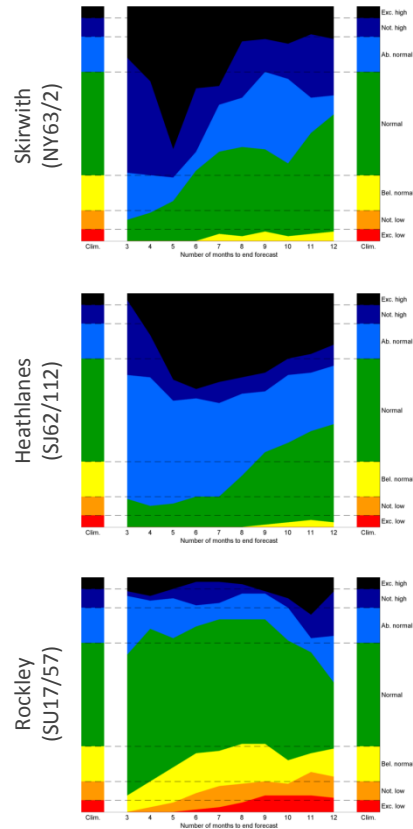
Outlook based on modelled groundwater from historical climate

Period: January 2014 – October 2014

Issued on 11.11.2013 using data to the end of October

SUMMARY

Based on the outlooks for Skirwith and Heathlanes observation boreholes, groundwater levels are expected to remain higher than the long-term average in the Permo-Triassic sandstones of northern and western UK, at least until the end of the outlook period. Over most of the coming year, groundwater levels in the Chalk of Yorkshire are expected to be slightly lower than normal, whereas groundwater levels in the Chalk further south and east are expected to be at, or slightly above, the long term average.



This outlook is based on monthly ensembles of historical sequences of observed climate (rainfall and potential evapotranspiration) that form input to hydrological models. The outputs are probabilistic simulations of the average river flow over the forecast horizon (3 to 12 months ahead), at each location.

The graphs show variation over time of the number of simulated river flow, in each monthly ensemble, that fall

within each the seven categories: exceptionally low, notably low, below normal, normal, above normal, notably high and exceptionally high. The monthly variations can be compared to the long-term average distribution of river flow, which are shown as columns on the left and right of each graph.

This outlook is based entirely on historical sequences and therefore, this is not a forecast. It does not contain any knowledge of the state of the atmosphere and ocean. It is

hence possible that some of the historical sequences used might be inconsistent with current large-scale atmospheric conditions and would therefore be unlikely to occur in the next few months.