Operational Wave and Water Level model
Impact Case Study #4

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Roger supports the maintenance and development of EA coastal forecasting service.

What threat did Storm Eunice pose to you, and your area of the coast?

Storm Eunice brought a high risk of coastal flooding from Lands End to Bristol and along the south coast to Christchurch

How did you use the OWWL forecast before, and during, the storm event?

I used the OWWL data to support EA forecasts for the impacts of long period waves at Chesil Beach. There are a variety of wave period variables which can be used to describe long period energy including the peak period (Tp) and this is currently only available to the EA in real time via the OWWL forecast.

What value does the OWWL forecast provide you for predicting and managing storm events and coastal flooding?

The OWWL model provides useful data in a real time environment to investigate options for improving local and national EA forecasting improvements.

By providing input data (peak wave period and wave height), the OWWL model and forecasts are enabling me to test out proposed forecasting solutions for wave energy based approaches. In the longer term these type of approaches may be better at quantifying the relationship between complex sea conditions and impacts and I hope, would improve the accuracy of forecasts, efficiency of incident management and provide longer lead times to partners/public. All of which, would enable more efficient resource management and safety responses at the coast.