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POSTER ABSTRACT

Selection of modelling techniques for bird analysis undertaken for Robin Rigg offshore wind farm, Solway, Scotland

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Robin Rigg in the Solway was Scotland's first commercial-scale offshore wind farm development, operational from April 2010. This presentation will provide specific details of the analysis used for the long-term ecological monitoring (*ca.* 10 years) undertaken as part of the Marine Environment Monitoring Programme (MEMP).

In particular, this presentation will focus on the techniques used to determine the changes in bird numbers and distributions at the site, comparing the situation pre-construction, during construction and then during the 2 years of operation. The key species that the analysis has been undertaken for are Guillemot *Uria aalge*, Razorbill *Alca torda*, Gannet *Morus bassanus*, Red-throated Diver *Gavia stellata* and Cormorant *Phalacrocorax carbo*.

This presentation focuses on the issues of autocorrelation and zero-inflation in offshore seabird data. The aim will be to show how models have been selected for each species.