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**CHARLES BORDET**, Université Laval

*A Stochastic Pella Tomlinson Model and its Maximum Sustainable Yield*

This presentation investigates the biological reference points, such as the maximum sustainable yield, for the Pella Tomlinson surplus production model in the presence of a multiplicative environmental noise. This model is used in fisheries stock assessment as a firsthand tool for the elaboration of fishing strategies. The consideration of random noise leads to more conservative harvesting target than deterministic models.