

1116-92-718

James N Ianelli* (jim.ianelli@noaa.gov), NOAA, Building 4, 7600 Sand Point Way NE, Seattle, WA 98115. *Modeling innovations for fisheries assessments and management: are there any?* Preliminary report.

Modern fisheries modeling practices for management purposes require extensive specifications of statistical uncertainty, both structural and in estimation. Evaluating risk is an important part of providing management advice (on catch limits etc) and use of “ensemble” approaches including complex ecosystem models is growing. Such methods have drawn parallels to hurricane track predictions but in our resource setting we never know precisely the actual impact nor it’s intensity. However, observations on how managers react to uncertain outcomes and the relative impacts are rarely evaluated. We argue that one area where applied resource management scientists can benefit is through meta-analysis of the interaction of available data, how they are analyzed and ultimately principles that affect decisions. Domestic examples from Alaskan fisheries are contrasted with experience in international resource management arenas. (Received September 11, 2015)