

## Herald Oribute

A wake-up call for fisheries scientists to get serious about putting uncertainty at the center of the table. Inspired by Dankel et al. (2012) "Advice under uncertainty in the marine system" ICES JMS.

WEDNESDAY, JUNE 4, 2014

## Fishermen sue scientist for 'misleading' advice causing mackerel collapse

By: Peter Shook, Copenhagen

for Atlantic mackerel through ICExS. always been followed." "Our clients, the good men and women of the European Pelagic Fish-

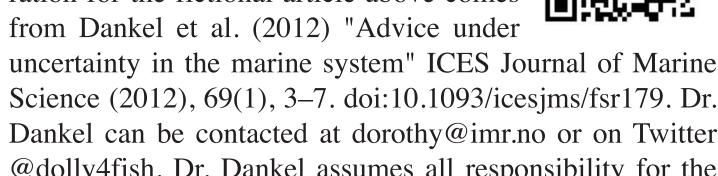
ermen's Union have routinely been In an unprecedented chain of mislead by Dr. Peterson and his colevents, a fisheries scientist is being leagues by the annual catch advice. sued for €31 million by the European Our clients have followed the recom-Pelagic Fishermen's Union, Ltd. mended scientific catch advice reli-(EFU) for giving faulty "uncertain" giously for the last 7 years and never advice related to the total allowable expected that a collapse like this could catch of the Atlantic mackerel. The happen when they follow what the sciscientist, Michael A. Peterson, Ph.D. entists recommend." It was after the (52) is a Danish-American citizen Fishermen's Union order an audit of working at the Danish National Insti- the catch advice from 2007-2014 that tute for Fisheries Advice located in they claim to have discovered that the Copenhagen. Dr. Peterson is also the scientific certainty in stock assesshead scientist in the Pelagic Advice ment (the "counting of the fish" that Division in the International Council underlies the catch advice given out of the Exploitation of the Seas every February) was much weaker (ICExS) also located in Copenhagen. than the advice wording made it out to The premise for the litigation is be. "These scientists never communithe recent dramatic collapse of the At- cated how much they actually know, lantic mackerel which has cost the pe- or didn't know, about the size of Atlanlagic fishing industry tens of millions tic mackerel. Their advice was time of Euros. Scientists are still unsure and time again given on such shaky what triggered the major collapse grounds, my clients the fishermen which has currently put 124 fishermen never knew how inexact the science out of work indefinitely and claim no actually was." Mr. Peterson was not warning signals of an imminent col- immediately available for comment, lapse were visible during the last three but sent an e-mail with this response scientific meetings on Atlantic mack- right before deadline: "I have no comerel. Dr. Peterson has been targeted by ment to the last 7 years of catch advice the lawyers for the major litigation we at ICExS have given for the Atlansince he leads the team of scientists tic mackerel, only that I can assure that provides the annual catch advice that the normal procedures have

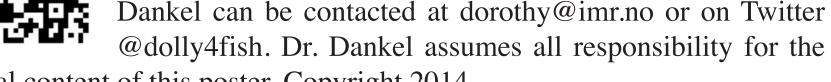


In the recent "FishGate" scandal, science is taking a credibility and legitimacy beating after being accused of misleading society in areas of highly uncertain stock estimates passed on to quota advice. Illustration by Jorge Mariano Collantes.

"This poster was creatively imagined written and co-designed by Dr. Oprothy J. Dankel, Institute of Marine Research and Centre for the Study of the Sciences & the Humanities at the University of Bergen, Norway. Co-design and technical sup-

port and administration by Tracey Robideau. Scientific inspiration for the fictional article above comes





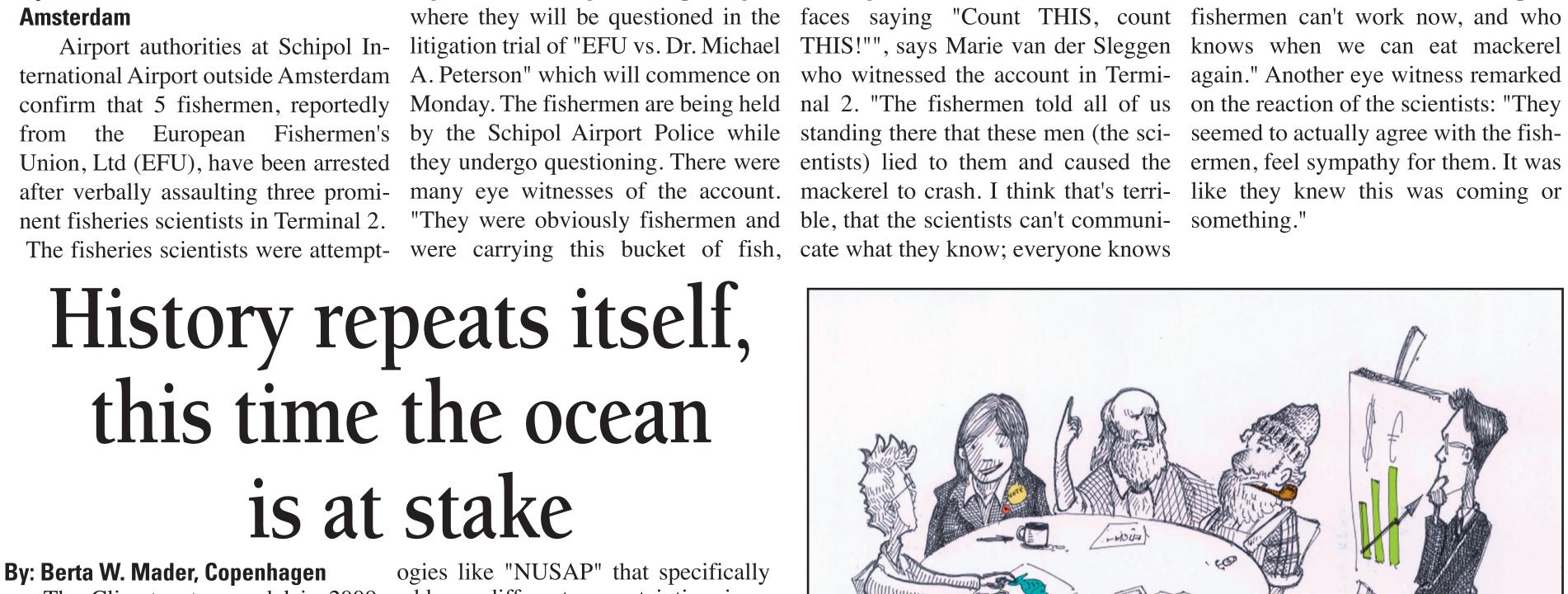




Illustration of the "Extended peer community" as a methodology in the Post-normal science paradigm explained by Dr. S.A. Grovsnor. Illustration by Jorge Mariano Collantes. There's

scientists and their institutions really uncertainty behind their advice. The no excuse anymore not to be quantify- even though they followed the advice. put in an effort on how they deal and Atlantic mackerel stock collapsed this ing and expressing uncertainty in any. The best science in the world could communicate with uncertainties. In the past spring, allegedly due to over-opti- type of science advice. When I hear never produce those types of certain Netherlands, the Dutch Environmental mistic quota advice. Dr. Grovsnor said, about fish quota advice with five sig-numbers, so I don't know why scien-Agency overhauled their quantitative "The fact is that there are tried and nificant digits, well, it's no wonder the tists are trying to hide behind advice framework within the vein of tested methods on the table for scien- fishermen are mad. Their livelihood them."



Michael A. Peterson confronts the press in Copenhagen for clarifications regarding the upcoming trial "European Pelagic Fishermen's Union, Ltd. vs. Dr. Peterson", also known as "FishGate" where the European fishermen accuse Dr. Peterson of misguiding them with uncertain estimates of the Atlantic mackerel stock over seven years leading to the present stock collapse.

## Angry fishermen protests confront fisheries scientists at airport

By: Lauren Schlemmermann,

**Amsterdam** 

ing to board a flight to Copenhagen, shoving it into their (the scientists') there's limits to science. These poor



"post-normal science" with methodol- tists and institutions to put into place. (the collapsed mackerel stock) is gone

The Climategate scandal in 2009 address different uncertainties in a should have been a warning: scientists transparent way." Dr. Grovsnor help need to open up about uncertainty and lead a group of environmental scienhow it relates to scientific advice for tists in the Faroe Islands through a policy. Now it seems, according to the workshop that discussed how to bring allegations by the European Fisher- the NUSAP methodology into the polmen's Union, Ltd. (ETU), that a new lution advice for the Faroes. The scandal has occurred, this time in fish- "Fishgate" case alleges that fisheries eries science. Professor of Philosophy biologist Dr. Michael A. Peterson and and Mathematics, Dr. S.A. Grovsnor colleagues from the marine science inforeshadows a major "clean-up" in stitution ICExS have mislead polifisheries science as a result of the cy-makers in the certainty of their "Fishgate" litigation looming Monday quota setting advice the last seven in Copenhagen: "After Climategate, years by not formally addressing the

from Dankel et al. (2012) "Advice under uncertainty in the marine system" ICES Jou Science (2012), 69(1), 3–7. doi:10.1093/ices Dankel can be contacted at dorothy@imr.no.

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