Food for thought: pretty good multispecies yield - DTU Orbit (08/09/2019)

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MSY principles for marine fisheries management reflect a focus on obtaining continued high catches to provide food and livelihoods for humanity, while not compromising ecosystems. However, maintaining healthy stocks to provide the maximum sustainable yield on a single-species basis does not ensure that broader ecosystem, economic, and social objectives are addressed. We investigate how the principles of a "pretty good yield" range of fishing mortalities assumed to provide >95% of the average yield for a single stock can be expanded to a pretty good multispecies yield (PGMY) space and further to pretty good multidimensional yield to accommodate situations where the yield from a stock affects the ecosystem, economic and social benefits, or sustainability. We demonstrate in a European example that PGMY is a practical concept. As PGMY provides a safe operating space for management that adheres to the principles of MSY, it allows the consideration of other aspects to be included in operational management advice in both data-rich and data-limited situations. PGMY furthermore provides a way to integrate advice across stocks, avoiding clearly infeasible management combinations, and thereby hopefully increasing confidence in scientific advice

General information
Publication status: Published
Organisations: National Institute of Aquatic Resources, Section for Ecosystem based Marine Management, Section for Marine Living Resources, CSIRO Oceans and Atmosphere, National Oceanographic and Atmospheric Administration, Ministry for Primary Industries, AZTI-Tecnalia, University of Washington, University of New Brunswick, Marine Institute
Pages: 475-486
Publication date: 2017
Peer-reviewed: Yes

Publication information
Journal: ICES Journal of Marine Science
Volume: 74
Issue number: 2
ISSN (Print): 1054-3139
Ratings:
BFI (2017): BFI-level 1
Scopus rating (2017): CiteScore 2.98
Web of Science (2017): Impact factor 2.906
Web of Science (2017): Indexed yes
Original language: English
Electronic versions:
Publishers version
DOIs:
10.1093/icesjms/fsw071
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review