

Apostolaki, Panayiota

- Several years' experience in assessing the effects of fishing (direct or incidental catches) using quantitative models.
- Strong background in mathematics, stock assessment, and ecological management.
- Expertise in fishery management strategies evaluation including development of Bayesian statistical frameworks and spatially disaggregated population dynamics models with particular emphasis on data poor fisheries.
- Author of more than 20 technical documents and peer reviewed papers and referee for a number of scientific journals. Associate Editor for the ICES Journal of Marine Science (2006-2009).

Current role

Head of Domestic Fisheries and Shellfish teams, Defra, UK

- Overview of management reforms for English inshore fleet.
- Responsible for development of management approaches to achieve sustainable exploitation of shellfish stocks in England and commissioning of relevant research.
- Member of a number of steering groups overseeing delivery of research and management projects on scallops and other shellfish species.

PAST REPRESENTATIONS/ROLES

- Head of the UK scientific delegation to IWC and ICCAT.
- Member of the US or EU-UK scientific team attending ICCAT SCRS meetings.
- Member of the ICES Working Group on Fishery Systems.
- Member of ICCAT working groups for bluefin tuna, swordfish, sharks.
- Member of the editorial board of the ICES Journal of Marine Science.
- Member of the IWC Revised Management Procedure and Ecosystem Modelling Working Groups.
- Reviewer of fishery assessments for the MSC accreditation process.

RELEVANT PAST WORK EXPERIENCE

Dates	2011 – 2012
Position held	Policy lead for evidence on Marine Conservation Zones, Defra
Main activities and responsibilities	- Coordination of technical work and projects with several delivery partners to support selection and design of Marine Protected Areas in

	England and provision of scientific advice on MPAs,
	<ul style="list-style-type: none"> - Engagement with the fishing industry and contribution to work on achieving Good Environmental Status in UK waters. - Responsibly for quality assurance of technical work, including working closely with economists to produce the Impact Assessments and with 5 external experts to produce an independent review of the scientific recommendations and MPA selection.
Dates	2007 - 2010
Position held	Head of fisheries research group and fishery advisor
Main activities and responsibilities	<ul style="list-style-type: none"> - Main scientific advisor to Defra on issues related to IWC and ICCAT. - Provided advice on conservation and fishery management measures for freshwater and marine species. - Conducted and coordinated modelling projects to support fisheries management. - Accountable for the management and development of staff in the group. - Delivery of the scientific strategy of the group, ensuring scientific excellence and delivery of work.
Employer	Cefas, Lowestoft
Dates	2005 - 2007
Position held	Fishery Scientist
Main activities and responsibilities	<ul style="list-style-type: none"> - Advice on conservation and fishery management measures for freshwater and marine species - Research on alternative approaches to stock assessment and monitoring fishery impacts. - Participation/coordination of European research projects. - Contribution to development of fishery management programs for domestic and international fisheries
Employer	Cefas, Lowestoft
Dates	2004 - 2005
Position held	Post-Doctoral Associate
Main activities and responsibilities	<ul style="list-style-type: none"> - Evaluation of the effects of alternative fishery management strategies including data poor fisheries and by-catch species. - Engagement with stakeholders (fishing industry, NGOs, etc) - Coordination of projects and preparation of research proposals. - Member of the US delegation to ICCAT
Employer	University of Miami, Miami, USA

SELECTED PEER REVIEWED PUBLICATIONS AND REPORTS

- Walker, A.M., Andonegi, E., **Apostolaki, P.**, Aprahamian, M., et al., 2011. LOT 2: Pilot projects to estimate potential and actual escapement of silver eel. Project Report for the European Commission, Directorate-General for Maritime Affairs and Fisheries.
- Apostolaki, P.**, and Hillary, R. 2009. Harvest Control Rules (HCRs) in the context of fishery-independent management of fish stocks. *Aquatic Living Resources* **22**(2): 217-224..
- Apostolaki, P.**, Pilling, G. M., Armstrong, M. J., Metcalfe, J. D., and Forster, R. 2008. Accumulation of new knowledge and advances in fishery management; two complementary processes?, pp. 184-228. *In Advances in Fisheries Science - 50 Years on from Beverton and Holt*. Ed. by A. Payne, J. Cotter, and T. Potter. Blackwell Publishing, Oxford.
- G.M. Pilling, **P. Apostolaki**, P.A. Large, B. Morales-Nin, P. Reglero, K. Stergio and A. Tsikliras, 2008. Assessment and management of data poor fisheries. pp. 280-305. *In Advances in Fisheries Science - 50 Years on from Beverton and Holt*. Ed. by A. Payne, J. Cotter, and T. Potter. Blackwell Publishing, Oxford
- Brooks, E., **Apostolaki, P.**, 2007. Implications of swordfish (*xiphias gladius*) stock structure and mixing on management benchmarks. *ICCAT Col. Vol. Sci. Pap.* **61**(1):61-78 (*special peer reviewed volume*)
- Apostolaki, P.**, E.A. Babcock, M.K. McAllister, 2006. Contrasting deterministic and probabilistic ranking of catch-quotas and area/size-based fisheries management. *Can. J. Fish. Aquat. Sci.* **63**: 1777-1792.
- Cortés, E., E.N. Brooks, **P. Apostolaki**, and C.A. Brown, 2006. Stock Assessment of dusky shark in the U.S. Atlantic and Gulf of Mexico. Sustainable Fisheries Division Contribution SFD-2006-014, Panama City Laboratory Contribution No. 06-05.
- Babcock, E., Pikitch, E., McAllister, M., **Apostolaki, P.**, Santora, C. 2005. A perspective on the use of spatially-explicit population and system-level indicators for ecosystem-based fishery management through spatial zoning. *ICES Journal of Marine Science*, **62**: 469-476.
- Apostolaki P.** 2003. Modelling tools for evaluating the effectiveness of alternative fisheries management measures in migratory fish species. PhD thesis, Imperial College, London, UK. 285 pp.
- Apostolaki, P.** E.J. Milner-Gulland, M. McAllister and G. Kirkwood. 2002. Modelling the effects of establishing a marine reserve for mobile fish species. *Canadian Journal of Fisheries and Aquatic Science* **59**(3): 405-415

SELECTED ICCAT PUBLICATIONS

- Apostolaki, P.** 2005. Preliminary evaluation of the effectiveness of minimum size regulations versus marine protected areas for North Atlantic swordfish stock. *ICCAT Collective Volume of Scientific Papers*, **58**(4): 1380-1387.

Apostolaki, P., E.A. Babcock, M.K. McAllister. 2003. A scenario-based framework for the stock assessment of North Atlantic bluefin tuna taking into account trans-Atlantic movement, stock mixing and multiple fleets. ICCAT Col. Vol. Sci. Pap. **55**(3): 1055-1079.

Apostolaki P., E.A. Babcock, G. Scott, C. Cramer, M.K. McAllister 2003. Using an age-structured and partially spatially-structured population dynamics model to evaluate the potential effects of area closures on stock rebuilding of North Atlantic swordfish. ICCAT Col. Vol. Sci. Pap. **55**(4):1597-1619

Apostolaki P., McAllister, M.K. Babcock, E.A. Bonfil, R., 2002. Use of a generalized stage-based, age-, and sex-structured model for shark stock assessment. ICCAT Col. Vol. Sci. Pap. **54**(4):1182-1198