Fisheries Mismanagement in the Mediterranean: A Greek Tragedy

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Editorial

One of the main objectives of fisheries management is the reduction of fishing capacity and effort at a global scale [1], since the global fishing fleet is at least twice higher than should have been to allow for fish stock replenishment [2], and locally, in cases where overexploitation is evident [3]. The (trawl and purse-seine) fishers and the fisheries officials in Greece do not share the same views with the majority of scientists. Here, I will present two cases of fisheries mismanagement in Greek waters that were recently uncovered.

According to the Greek laws, purse seiners are allowed to operate from the 1st of March to the 15th of December each year excluding two days before, during, and two days after the full moon i.e. they operate ca. 240 days per year. Similarly, the trawlers are allowed to fish between October and May (inclusive) each year, i.e. 240 days per year. Recently, the purse-seine fishers in several areas of northern Aegean Sea, where the vast majority of anchovy (Engraulis encrasicolus) and sardine (Sardina pilchardus) catches are collected, were given permission to operate during the full moon in international waters (=6 nautical miles from shore in the Aegean Sea), thereby increasing their fishing effort by 45 days per year (=20% effort increase per vessel). Trawl fishers preceded their purse-seine colleagues by 2-3 years [3]. They were the first to discover a legal window to get licences for fishing in international waters during the summer. Hence their effort was increased by 30 to 60 days per year, i.e. to a total of 300 days, which averages around 20% effort increase per vessel. It has been estimated that over 20 trawlers (7% of total trawler fleet that numbers around 300 vessels) and at least 30 purse-seiners (10% of the Greek purse-seiner fleet that numbers around 290 vessels) operate in excess of their nominal fishing effort. This practically means that almost all vessels harboured along the northern Aegean coastline (including the Islands of Thassos and Samothraki) operate in excess of their nominal fishing effort.

There are no ‘international’ fish in the Aegean Sea, nor ‘Greek’, or ‘Turkish’ fish. There are no borders in the sea. Most stocks move across territorial waters of Greece and Turkey, including the international waters in-between. Fish movements and migrations depend on oceanography, not politics. By operating during the full moon instead of during the actual fishing season. Hence, the profit per trip would have been higher.

Trawl fishers are lobbying a lot and have been greatly benefited by the Greek Ministry of Agriculture, which released the trawling management plan in early 2014. In this management plan, the fishing effort of trawlers is reduced by two weeks per year (around 5% reduction on the potential fishing days): one week at the end of December (in Christmas holidays of a Christian orthodox country where people tend to consume fish during the spring and summer months; not to mention heavy winters) and one week at the end of May. At the same time the management plan for trawlers includes measures for small-scale coastal fishers (!) by banning the fishing of hake (Merluccius merluccius) for them in February each year. Given the recent stock assessments of demersal fish [4] and the overall status of stocks [3] in the Mediterranean, a decent management plan would pre-131-136

4. Froese R (2004) Keep it simple: three indicators to deal with overfishing. Fish Fish 5: 86-91.

5. Ulman A (2014) Urgent change in management measures required to save turkish fisheries from collapse. J Coast Dev 17: 386.

6. Tsimakis AC, Fish Aquac J 2014, 5:4

http://dx.doi.org/10.4172/2150-3508.1000e113

References
1. Anticamara JA, Watson R, Gelchu A, Pauly D (2011) Global fishing effort (1950–2010): Trends, gaps, and implications. Fish Res 107: 131-136
2. Pauly D, Christensen V, Guénette S, Pitcher TJ, Sumaila UR, et al. (2002) Towards sustainability in world fisheries. Nature 418: 689-695.
3. Tsikliras AC, Tiros VZ, Stergiou KI (2013) Assessing the state of Greek marine fisheries resources. Fish Manag Ecol 20: 34-41.
4. Colloca F, Cardinale M, Maynou F, Giannoulaki M, Scarcella G, Jenko K, Bellido JM, Fiorentino F (2013) Rebuilding Mediterranean fisheries: a new paradigm for ecological sustainability. Fish Fish 14: 89-109.
5. Tsikliras AC, Dinioulis A, Tsalkou E (2013) Exploitation trends of the Mediterranean and Black Sea fisheries. Acta Adriat 54: 273-282.
6. Froese R (2004) Keep it simple: three indicators to deal with overfishing. Fish Fish 5: 86-91.
7. Ulman A (2014) Urgent change in management measures required to save turkish fisheries from collapse. J Coast Dev 17: 386.
8. Tsikliras AC, Sumaila UR, Stergiou KI (2013) Parallels in economic and ecosystem crises. Ethics Sci Environ Politi 13: 23-25.