Illegal, Unreported Unregulated Anchovy Fishery in the Black Sea

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Joint GFCM BSC Workshop on IUU Fishing in the Black Sea Istanbul, Turkey, 25-27 February 2013



Assessment Of Black Sea Anchovy Using Acoustic Method And Establishing A Monitoring Model For National Fisheries Data Collection Program



Leading institutes:

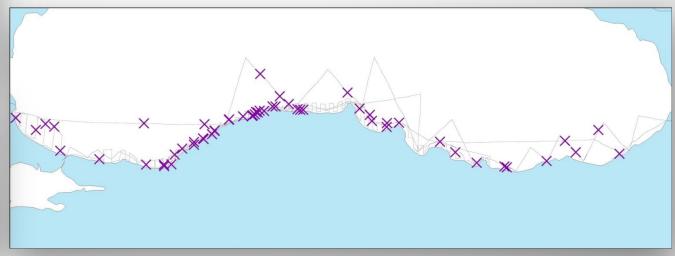
METU Institute of Marine Sciences

Trabzon Central Fisheries Research Institute









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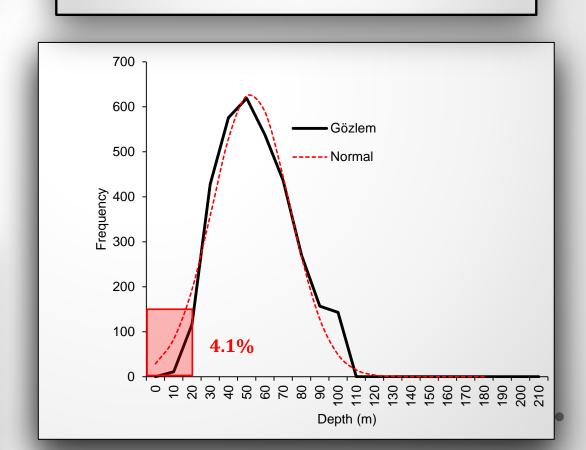
 •resources under international law.



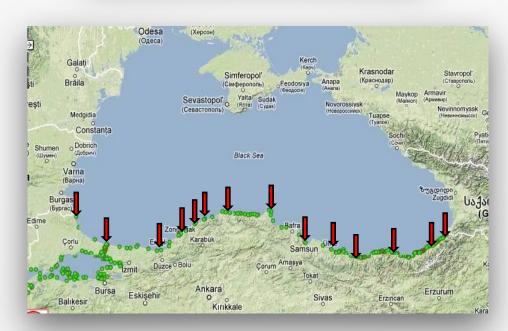




- (1) Minimum size limitation (9 cm)
- (2) Closed season and area
- (3) Minimum depth limitation (24m)
- (4) Time limitation (16:00-06:00)



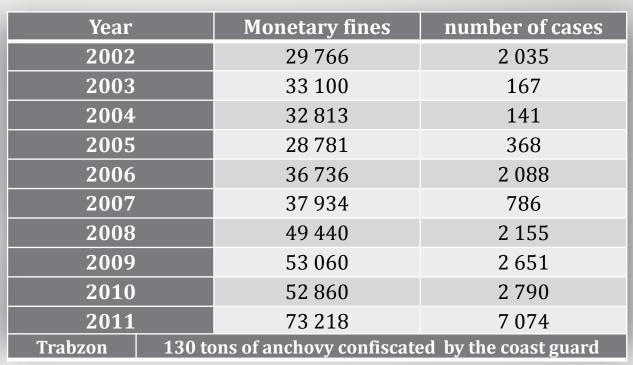




Coast guard bases in the Black Sea coast of Turkey











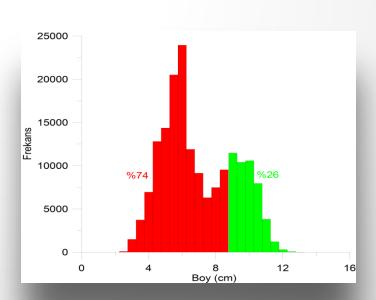






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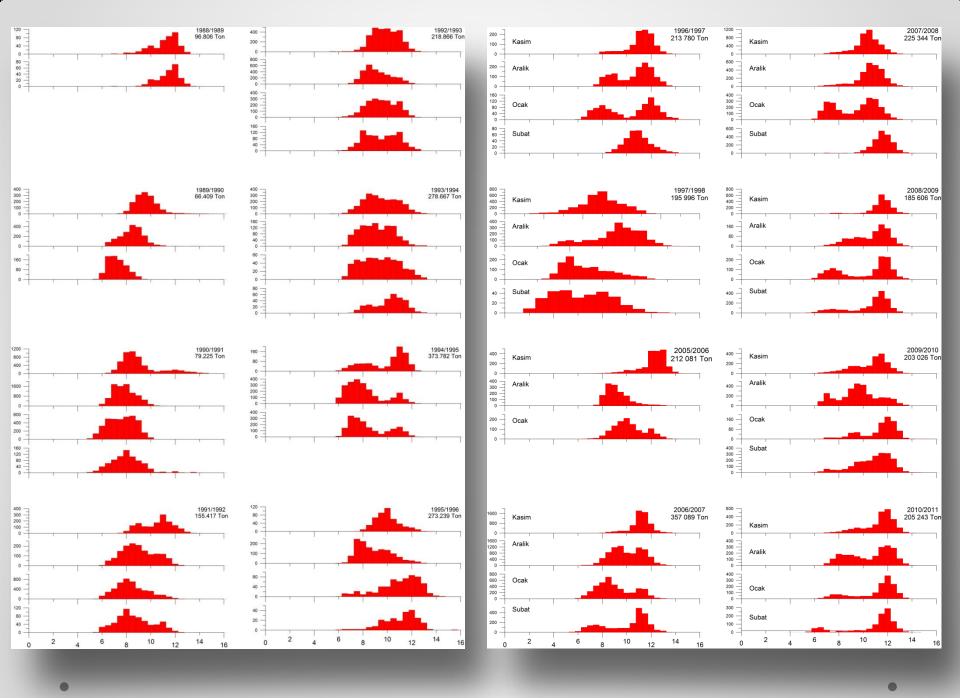
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Fish graders









Resampled discarded anchovies





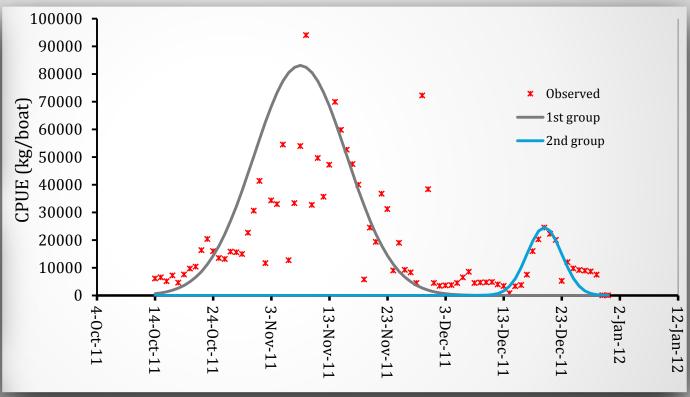


Changes in the CPUE of a fishing boat within the season







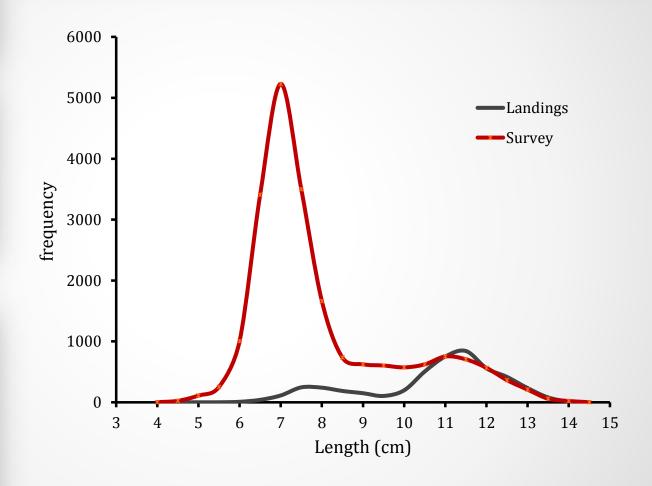








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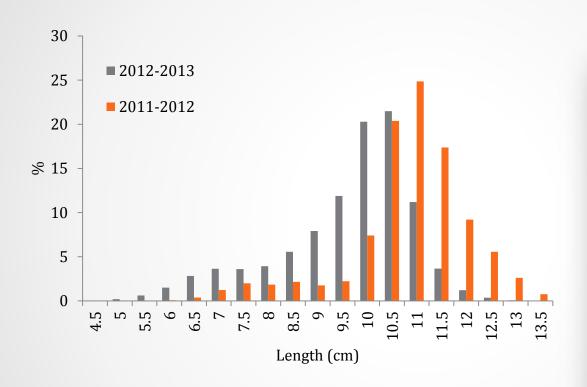
2011-2012 anchovy fishing season

	Landing (in weight)	Landing (in numbers)	Discard (in weight)	Discard (in numbers)
November	85%	55%	0%	0%
December	15%	45%	15%	77%
Season	-	-	5%	35%



Fishmeal and fish oil processing factories (Σ 13)

Length composition of the anchovies landed in 2011-2012 and 2012-2013 fishing season





2011-2012 anchovy fishing season

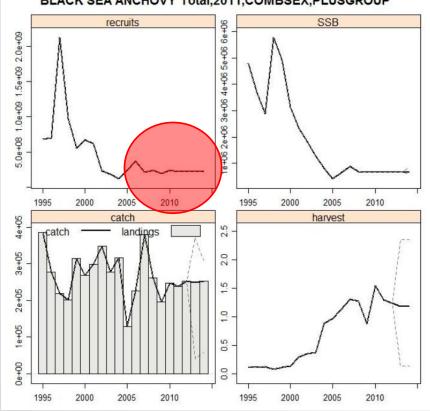
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2012-2013 anchovy fishing season

	Landing (in weight)	Landing (in numbers)	Discard (in weight)	Discard (in numbers)
November	0%	0%	0%	0%
Dec + Jan	?	?	41%	74%
Season	To be estimated at the end of the season			

Years	0	1	2	3
2006	23368	142640	67087	6172
2007	29180	255042	92125	5945
2008	6575	120777	113175	8081
2009	12878	110520	73142	7512
2010	6517	80509	123078	12380
2011	2724	126449	81633	3754

BLACK SEA ANCHOVY Total, 2011, COMBSEX, PLUSGROUP





JRC SCIENTIFIC AND POLICY REPORTS

Scientific, Technical and Economic Committee for Fisheries (STECF)

Assessment of Black Sea Stocks (STECF-12-15)











Regulations applied to the Turkish fishermen by the Georgian Authorities

- (1) MPAs
- (2) Coastal protection (>300 m)
- (3) Minimum size (7 cm)
- (4) TAC (60 000 tons)
- (5) Detain 2/3rd of the landing

Means to control Turkish fishermen operating in the Georgian waters

- (1) VMS (AIS)
- (2) Interpreter/Observer
- (3) Three stage reporting/control at the ports

Note: 32 Turkish fishermen were arrested due to unreported fishing between 2009-2010

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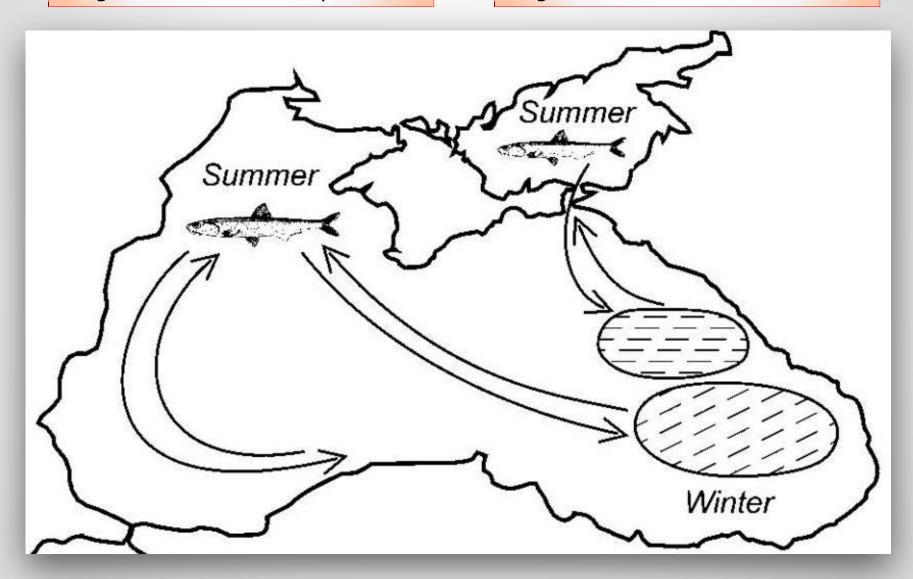
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Black Sea anchovy Engraulis encrasicolus ponticus

Azov anchovy Engraulis encrasicolus maeoticus



Shulman G.E., Anchovies of the Azov and the Black Sea: regularities of wintering migrations. Marine Ecology Journal 2002;1:67-77.

A part of the Turkish fishing fleet operates in the Georgian waters based bilateral agreements

The annual quota: 60 000 tons

Total boats legally involved (in 2011-12):19

Daily individual quota: 3000 tons

Some 30 fishing vessel were also operated in the north of Georgia where there is no control on the fishery