

Implementation of the Regional Seas Directions (RSSD) in the Black Sea

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Content



- Information on the Black Sea ecosystem
- Information on the Bucharest Convention and Black Sea Commission
- Achievements and Challenges with respect to the Strategic Directions for the Regional Seas Programme 2004-2007
- Future Prospects

The Black Sea Zooplankton: Composition, Spatial/Temporal Distribution and History of Investigations

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Introduction

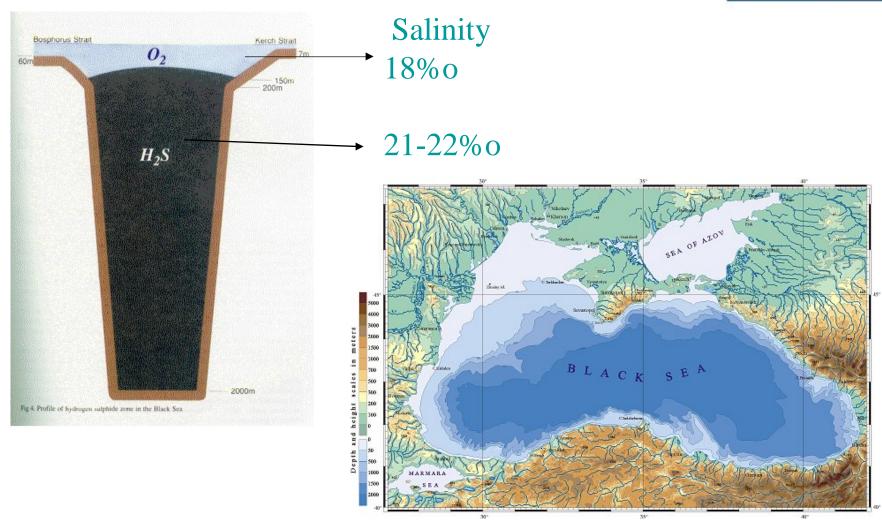
The Black Sea is one of the most interesting seas of the world both in scientific and non-scientific aspects. Its history is full of romantic and dramatic events. Its diverse marine fauna has been influenced by the long and short term (geological, climatic, hydrological) natural and anthropogenic processes of the last three decades.

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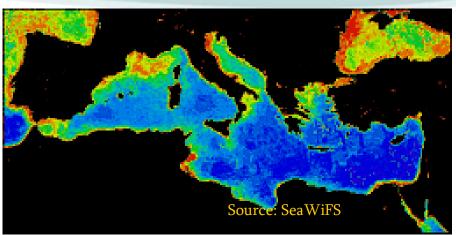
Bathymetry of the Black Sea & Permanent Anoxia (Zaitsev & Mamaev 1997)

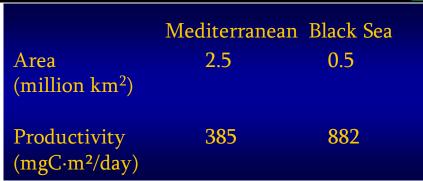


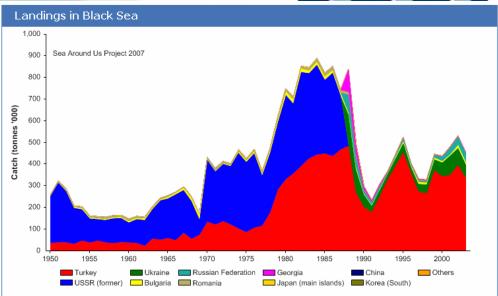


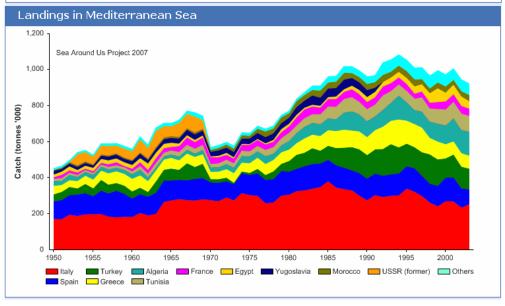
Fertility & fish catches...











Problems of the Black Sea: Transboundary Diagnostic Analysis 2007



- Eutrophication/nutrient enrichment
- Adverse changes in marine living resources
- Chemical pollution (including oil)
- Biodiversity/habitat changes, including alien species introduction
- Climate change (as Cross-cutting Issue)

Large nutrient-rich riverine input as the main reason eutrophication of the Black Sea

(>2 x10⁶ km²; Zaitsev & Mamaev 1997)

Black Sea was oligotrophic in 1940s (Sorokin 1983),

then mesotrophic and later eutrophic (Caddy 1993).

Some parts (NWS) even dystrophic (Zaitsev 1992).

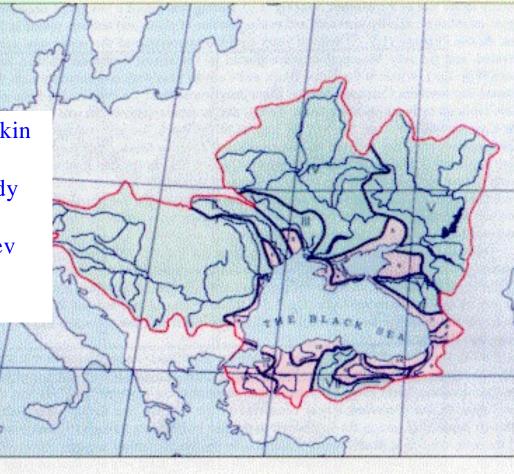


Fig 2. Black Sea Drainage Basin

Fisheries



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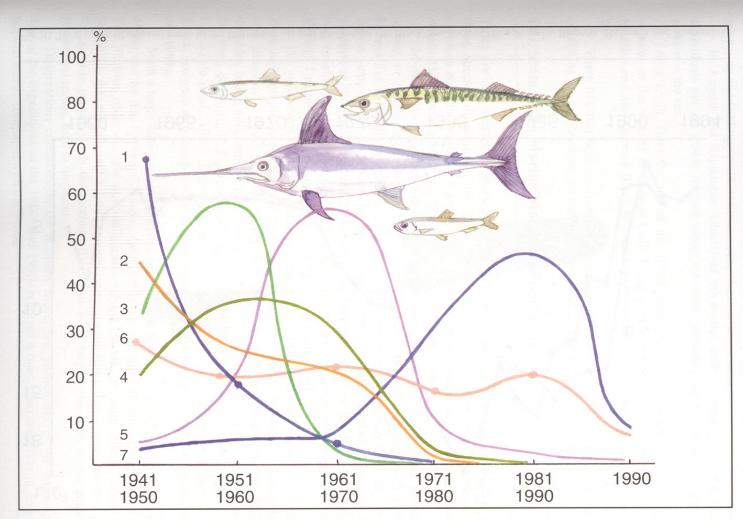


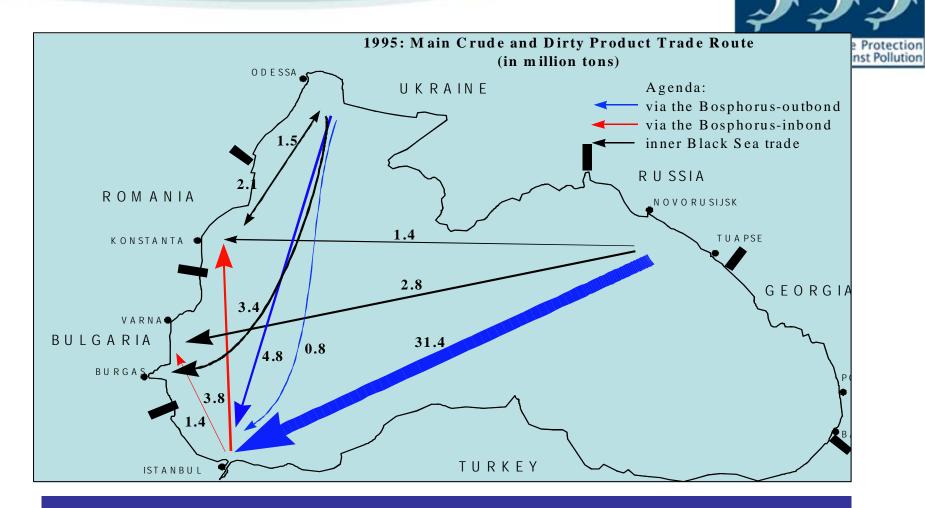
Fig 19. Trends (%) of mean catches per decade of pelagic top predators and forage fishes (anchovy and sprat) in 1941-1990 in the Bulgarian Black Sea waters: 1. tuna, 2. mackerel, 3. sword-fish, 4. bonito, 5. blue fish, 6. anchovy, 7. sprat (Bulgarian National Report, 1995).

Increasing Oil Transport

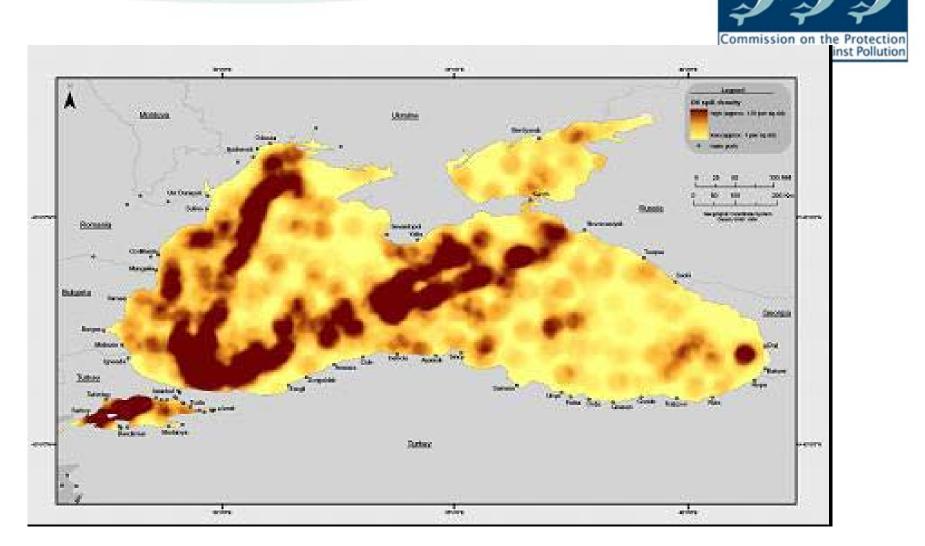


- Shipping is one of the important sources of oil pollution in the Black Sea;
- 50,000 merchant ships and 3200 tankers operate annually in the Black Sea region;
- Average age of the tankers operating in the region is more than 20 years - an additional high-risk element for the marine environment.

Large traffic of crude oil from different origins (*TDA 1994*)

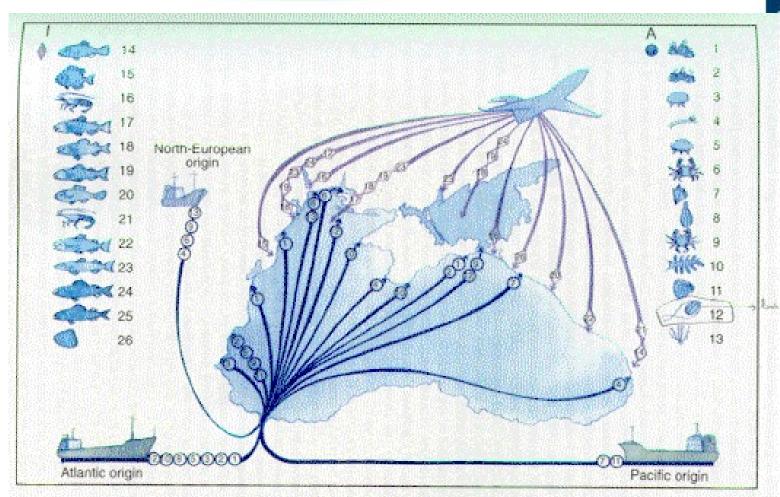


Number of likely oil spills per area of sea



^{*}Remote sensing data from 2000, 2001, 2002 and 2004 (Tarchi et al., 2006).

Another risk from increasing maritime transport: Introduced Species in the Black Sea (Zaitsev & Mamaev 1



Accidental Introductions

Fig. 8. Introduction of exotic species into the Black Sea

1. Balanus improvious, 2. Balanus ebumeus, 3. Blackfordia virginica, 4. Mercierella enigmatica, 5. Bourgainvillia megas (1933),
6. Rhithropanopeus harrisi tridentata (19837), 7. Rapana thomasaura, 8. Mya arenaria, 9. Callinectes sapidus, 10. Doridella obscura,
11. Canearca cornea, 12. Mnemiopsis leidyi, 13. Desmarestia viridis.

Intentional Introduction:

Gambusia affinis (1925), 15. Lepomis gibbosum (1930), 16. Pandallus kessleri (1939), 17. Plecoglossus altivellis (1963),
 Roccus saxatilis (1965), 19. Salmo gairdneri (1965), 20. Oryzias latipes (1970s), 21. Penacus japonicus (1970s).

22. Oncorhynchus keta (1972), 23. Mugal soitty (1972), 24. Dicentrarchus labrax (1977), 25. Lateolabrax japonicus (1978),

26. Crassostrea gigas (1980).

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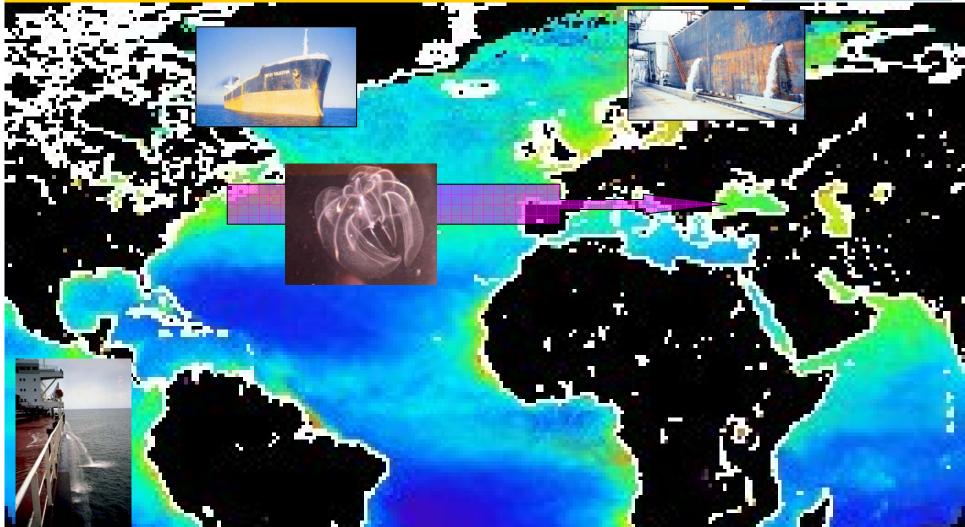
Balanus in 1900s from N America

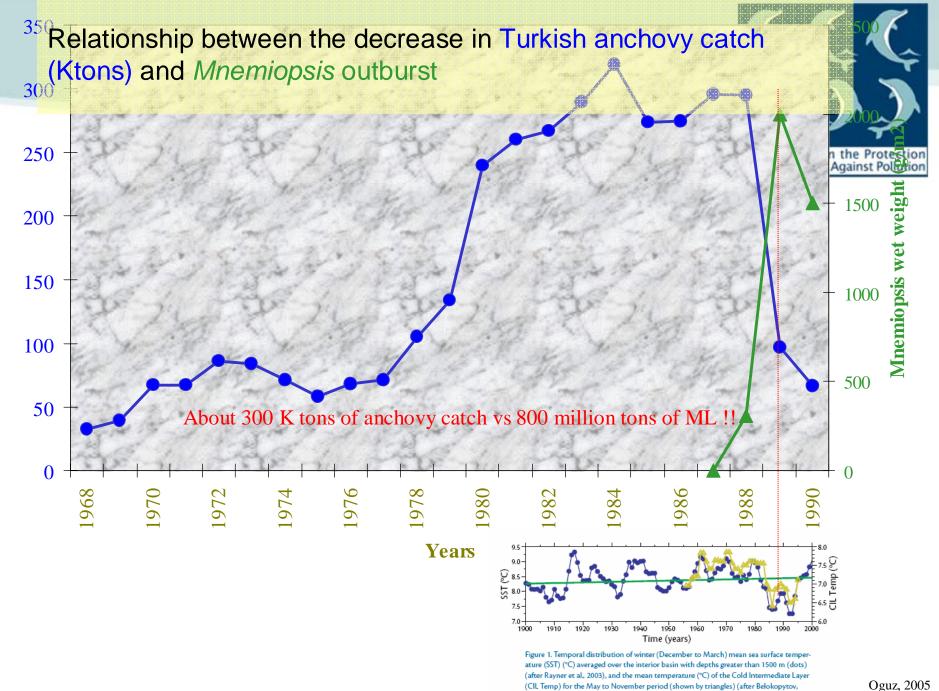
Gambusia affinis in 1925 from Italian coasts

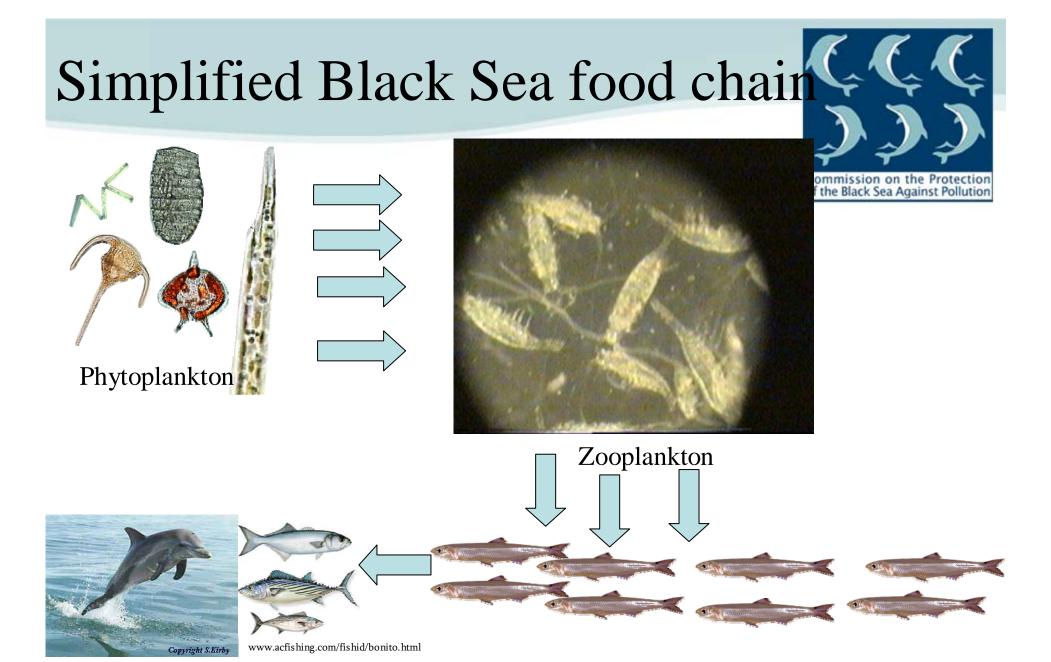
Rapana in 1946 from Pacific

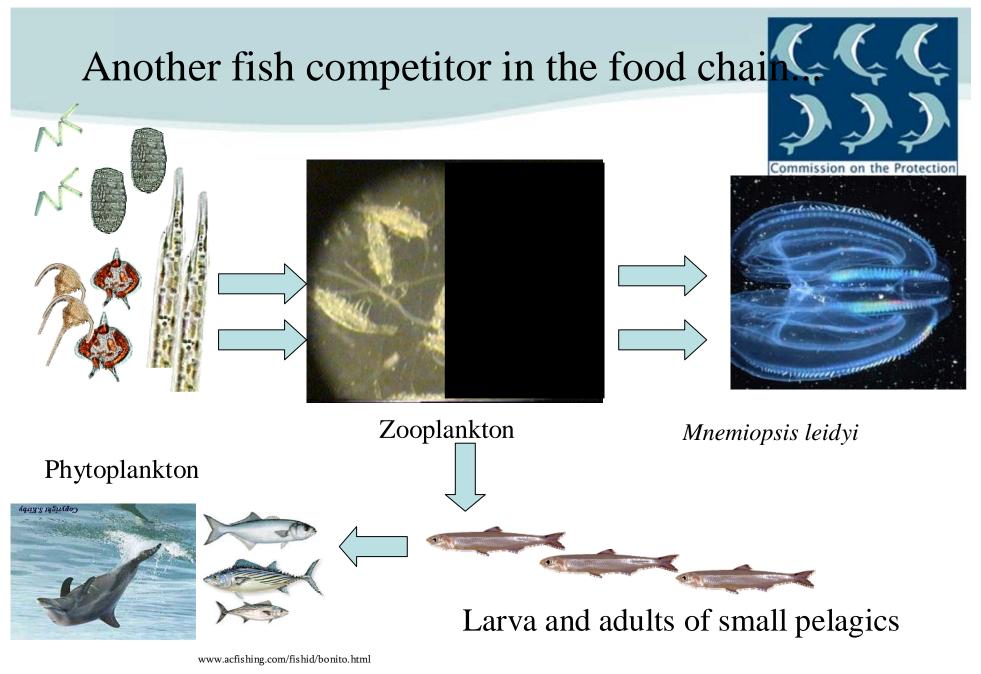
Alien jellyfish (*Mnemiopsis leidyi*) in the Black Sea in the late 1980s





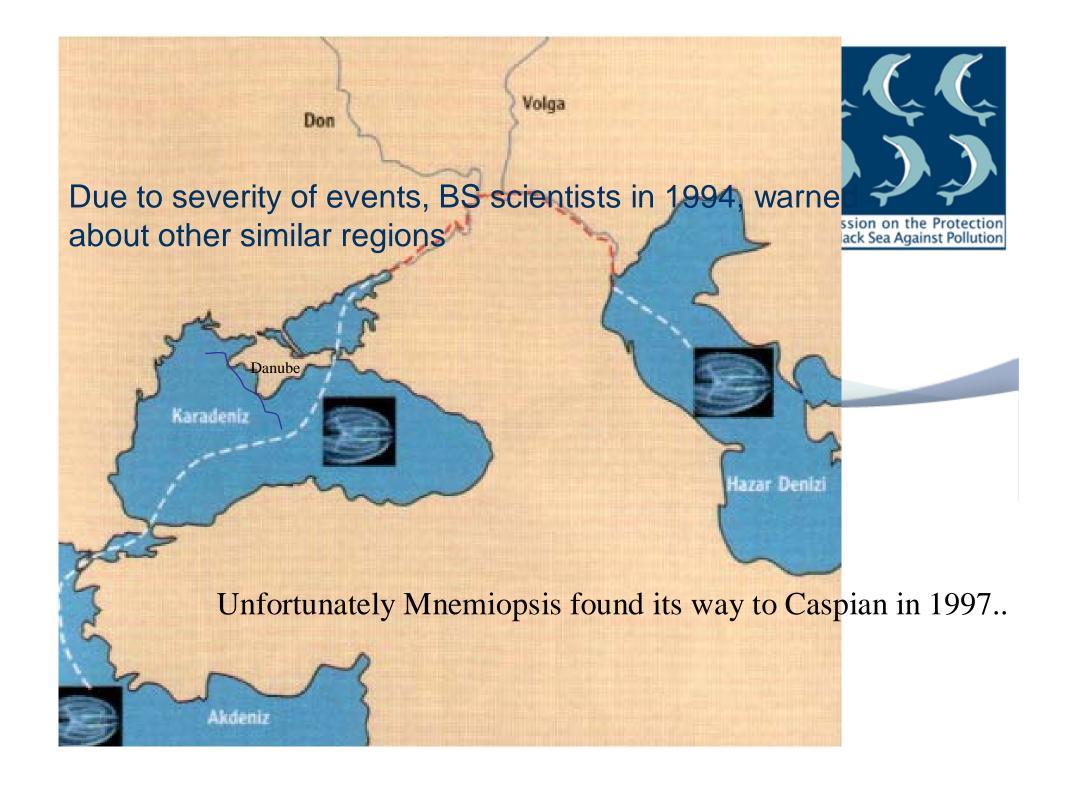






Larger predators





B B C NEWS



Monster muncher threatens Caspian fishing



Stocks of the tiny kilka fish have been devastated

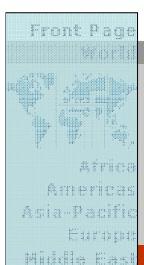
By Jim Muir in the Caspian Sea

Hundreds of fishermen on the Caspian Sea risk losing their livelihood because of an invasion of a marine organism that is depleting the fishes'

See also:

- 20 Oct 00 | Europe Caspian Sea threatened by new predator
- ▶ 22 Jun 01 | Europe Caspian deal on caviar
- ▶ 20 Jul 01 | Europe Russian ban on Caspian caviar

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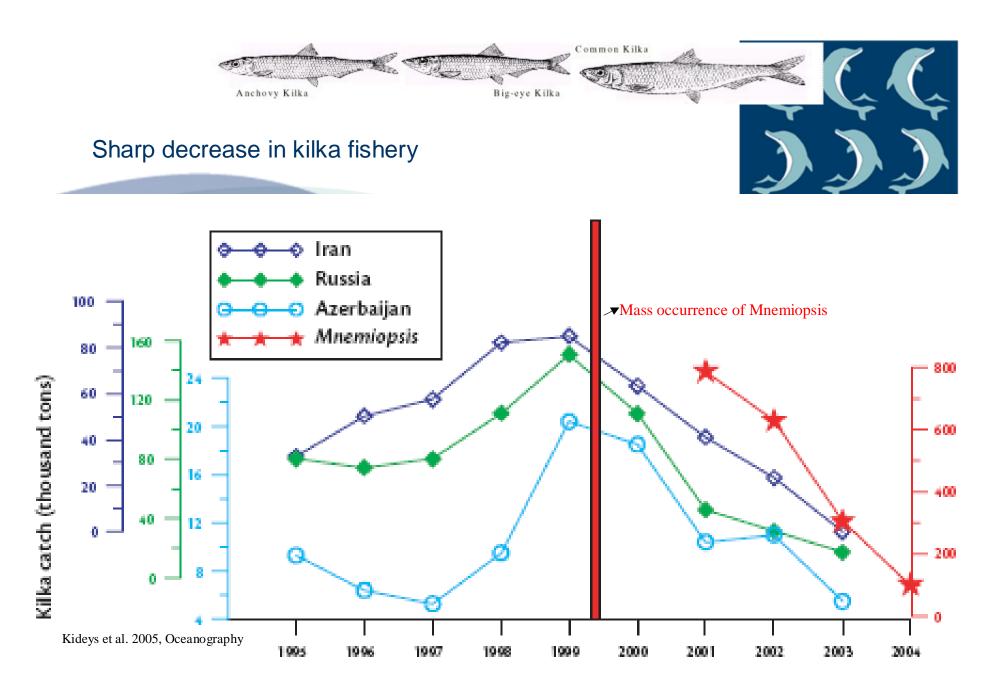


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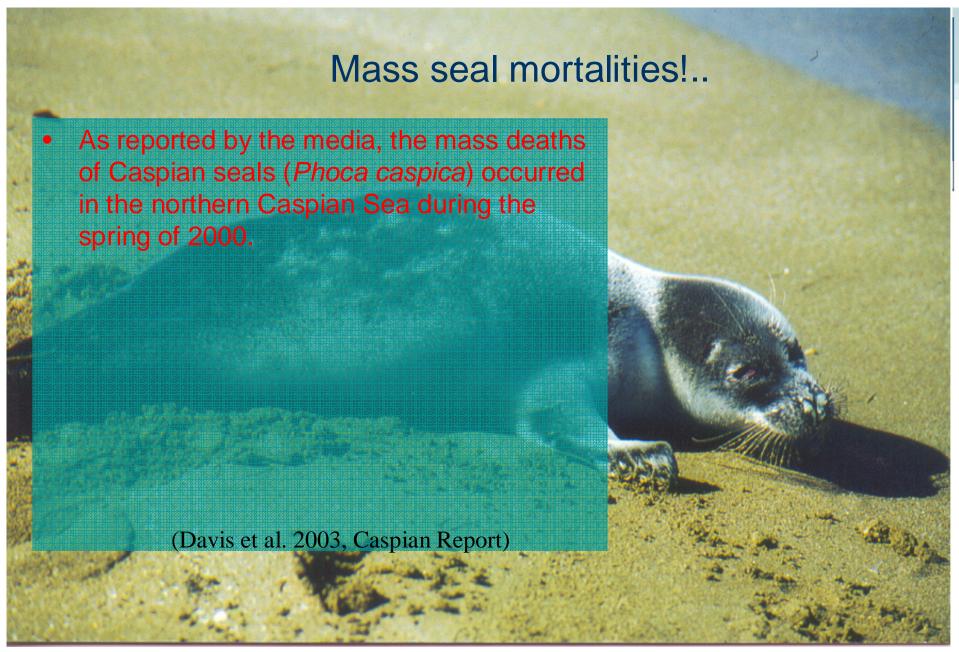
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UK Politics Husinass Sciffech

Health



Again hundreds million USD loss...



How to Deal: Regional Agreements



- Most marine problems are transboundary and require collective action
- Environment, the easiest area of cooperation
- Regional Seas Agreements make the cooperation even easier

Convention on the Protection of the Black Sea Again Pollution



 Bucharest Convention was signed on 21-04-1992 by the environmental ministers of the 6 Black Sea countries (i.e. Bulgaria, Georgia, Romania, Russia, Turkey and Ukraine), and later ratified by their parliaments

Protocols to the convention



Pollution related

- Land based sources
- Cooperation in emergency situations
- Dumping

And

- Black Sea Biodiversity and Landscape Conservation Protocol
- 1996 Strategic Action Plan for the Protection and Rehabilitation of the Black Sea (BSSAP)

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Institutional Setup



BSC is the focal body in support to implementing the Bucharest Convention

The Commission for the Protection of the Black Sea Against Pollution Permanent Secretariat Advisory Groups													
							AG ESAS	AG PMA	AG LBS	AG ICZM	AG CBD	AG FOMLR	AG IDE
							Environmental Safety Aspects of Shipping (AG ESAS)	Pollution Monitoring and Assessment	Control of Pollution from Land Based Sources	Development of the Common Methodologies for Integrated Coastal Zone Management	Conservation of Biological Diversity	Environmental Aspects of Fisheries and Other Marine Living Resources Management	Information and Data Exchange
									R	Regional Activity Cen	ters		
Environmental Safety Aspects of Shipping (AC ESAS), Varna, Bulgaria	Pollution Monitoring and Assessment (AC PMA), Odessa, Ukraine	Control of Pollution from Land Based Sources (AC LBS), Istanbul, Turkey	Development of Common Methodologies for Integrated Coastal Zone Management (AG ICZM), Krasnodar, Russian Federation	Conservation of Biological Diversity (AC CBD), Batumi, Georgia	Environmental Aspects of Fisheries and Other Marine Living Resources Management (AG FOMLR), Constanta, Romania	Information and Data Exchange (AC IDE), Permanent Secretariat, Istanbul, Turkey							
		C*		+ +		355							
National Focal Points													
Bg, Ge, Ro, Ru, Tr, Ua	Ua, Bg, Ge, Ro, Ru, Tr	Tr, Bg, Ge, Ro, Ru, Ua	Ru, Bg, Ge, Ro, Tr, Ua	Ge, Bg, Ro, Ru, Tr, Ua	Ro, Bg, Ge, Ru, Tr, Ua	Bg, Ge, Ro, Ru, Tr, Ua							

Strategic Directions for the Regional Seas Programme 2004-2007



- I. Increase Regional Seas' contribution to Sustainable Development
- II. Increase country ownership, implement legislation, involve civil society and the private sector, build capacities and ensure viable national and international financial arrangement
- III. Enhance Regional Seas' visibility
- IV. Support knowledge-based policy making, through monitoring and assessment activities
- V. Increase the use of Regional Seas as a platform for developing common regional objectives.
- VI. Develop and promote a common vision and integrated management, based on ecosystem approaches.



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- -partnerships and programs with UNDP/GEF, UNEP RSP, ICPDR, EC DG-ENV, ACCOBAMS, HELCOM, SIDA, OSPRI, DABLAS, IMO, FAO, GFCM, EMSA, JRC, GISP, WHO, London Convention, ESPOO and SIDA etc.
- -development of policy guidelines and other basic documents such as SAP, ICZM, TDA and SoE report
- -development of operational systems for monitoring,



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- Amendments of several legal texts (including SAP, LBS protocol)
- •Delta Exercise with OSPRI (Oil Spill Preparedness Regional initiative)
- Every Drop Counts Program of CocaCola
- •SIDA related activities (Port Reception Facilities, detecting illegal oil discharges, Ballast Water Convention)

•BS Conference, BS Day

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- Organized and conducted the First Biannual Scientific Conference of the Black Sea Commission in 2006
- Prominent Scientists Awards
- •Celebration of the International Black Sea Day
- •Awards for service to protect the Black Sea environment

2nd International Black Sea Conference
CLIMATE CHANGE IN THE BLACK SEA –PRESENT
IMPACT, FUTURE SCENARIOS AND MITIGATIONS
FOR THE ECOSYSTEM
BLACK SEA –HOT'2008
7-10 October-2008, Sofia, Bulgaria



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- •Improving National Reporting to the BSC
- •Black Sea Integrated Monitoring and Assessment Programme (BSIMAP),
- -Black Sea Information System (BSIS)
- Quality check (e.g. QUASIMEME)

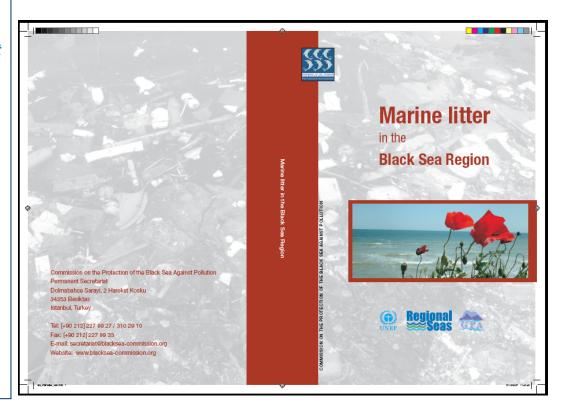
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- Marine Litter -> common policies
- •Invasive Species -> common approach





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- III. Enhance Regional Seas' visibility
- IV. Support knowledge-based policy making, through monitoring and assessment activities
- V. Promote synergies and coordinated regional implementation of relevant MEAs and global Organizations and initiatives
- VI. Develop and promote a common vision and integrated management, based on ecosystem approaches.

Update of main strategic and legal documents:

- The Convention
- •BSSAP
- Documents of the Commission

Challenges



- Better implementation of the Convention and related documents
- Wider sharing of knowledge & involvement of public
- Strengthening of science-policy cooperation
- Stronger cooperation with other regional organisations





Thank you for your attention

