



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

*Prof. Ahmet Kideys*

*Executive Director, Black Sea Commission, Permanent Secretariat*

*29-31 October 2007, Jeddah*

# 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

A. V. KOVALEV, V. A. SKRYABIN, Yu. A. ZAGORODNYAYA  
Institute of Biology of Southern Seas, Nakhimov Ave., 2, Sevastopol-UKR

F. BINGEL, A. E. KIDEYŞ, U. NIERMANN, Z. UYSAL  
Institute of Marine Sciences, P. O. Box 28, TR 32721 Erdemli, Izal-TURKEY



### 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.

## Noah Flood ?

(Ryan & Pitman 1998)

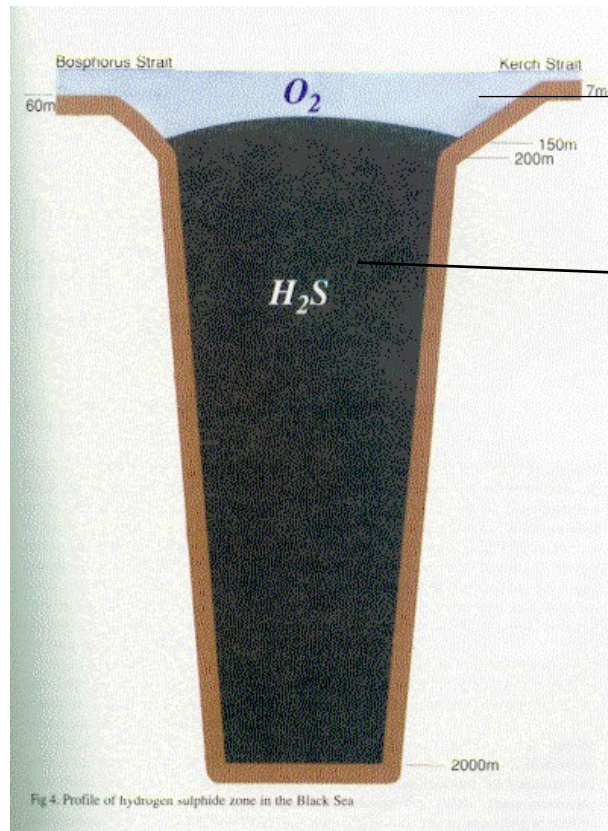


- **~6-7 thousand years ago:**

“It was still landlocked and fresh. But the Mediterranean Sea and Sea of Marmara had gradually risen to a level some 150 meters higher than the lake. Eventually, the ocean level rose high enough to slosh over into the Black Sea”

Source: MODIS

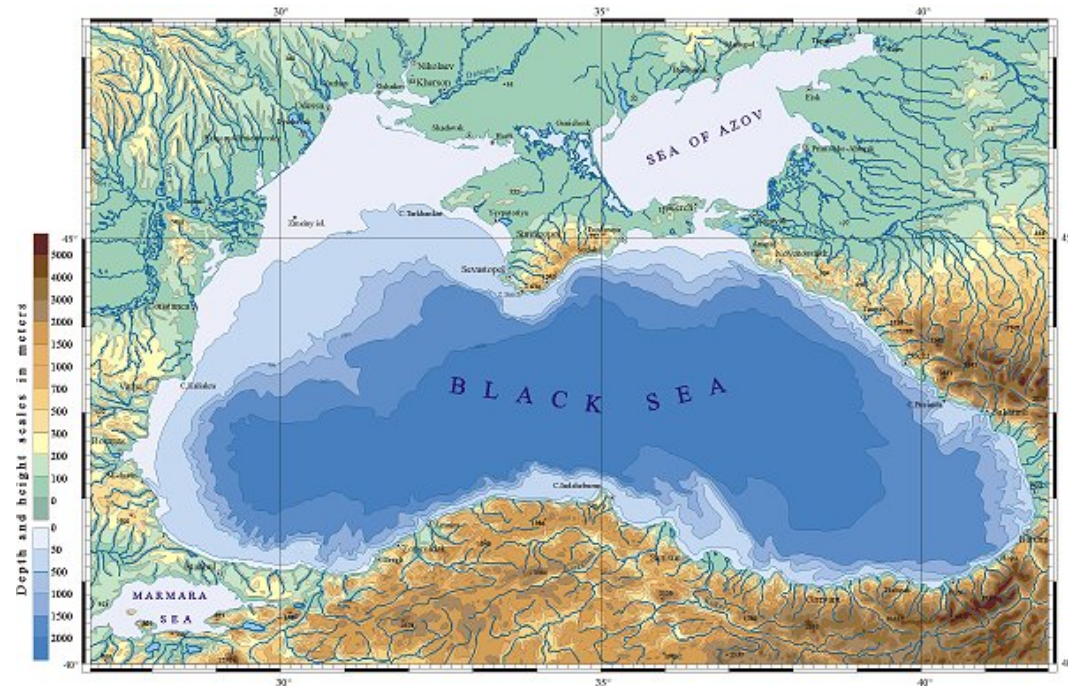
# Bathymetry of the Black Sea & Permanent Anoxia (Zaitsev & Mamaev 1997)



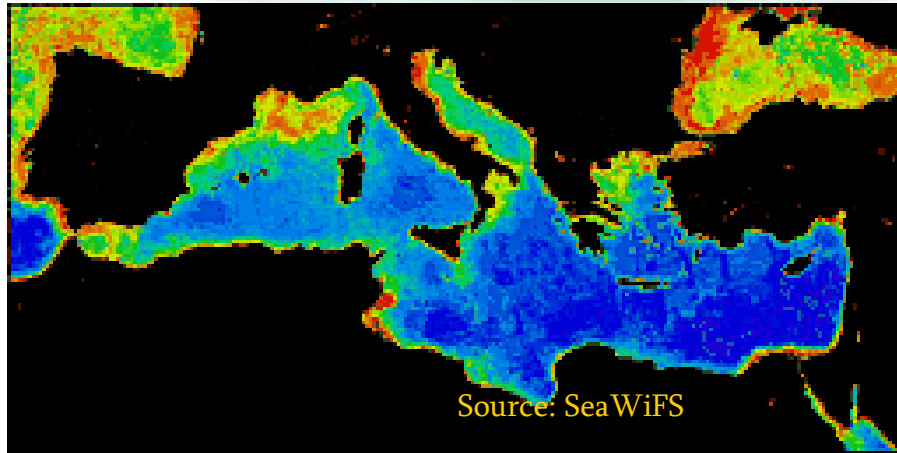
Salinity

18‰

21-22‰

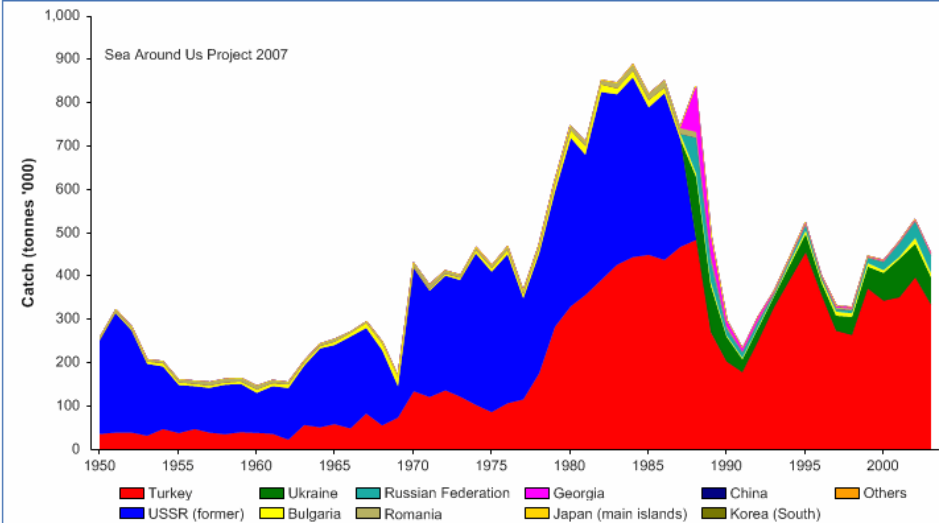


# Fertility & fish catches...

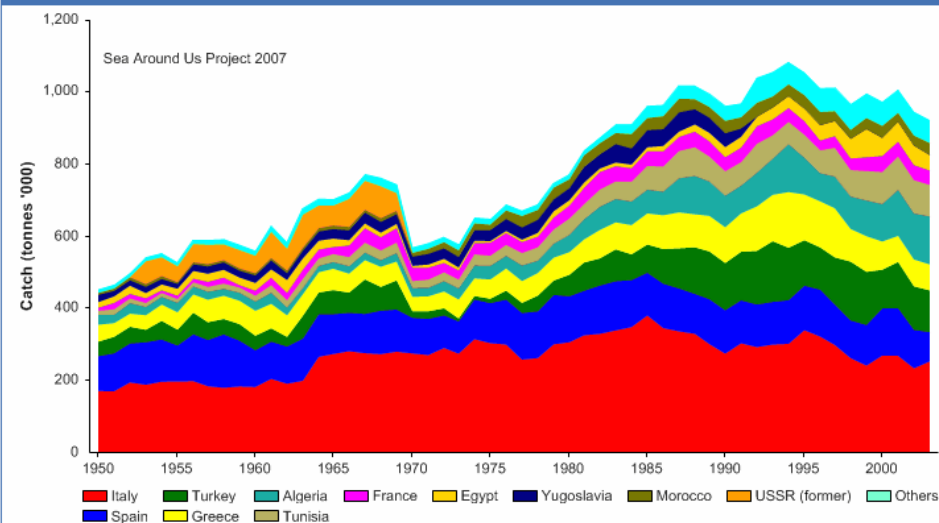


	Mediterranean	Black Sea
Area (million km <sup>2</sup> )	2.5	0.5
Productivity (mgC·m <sup>2</sup> /day)	385	882

Landings in Black Sea



Landings in Mediterranean Sea



# Problems of the Black Sea: Transboundary Diagnostic Analysis 2007



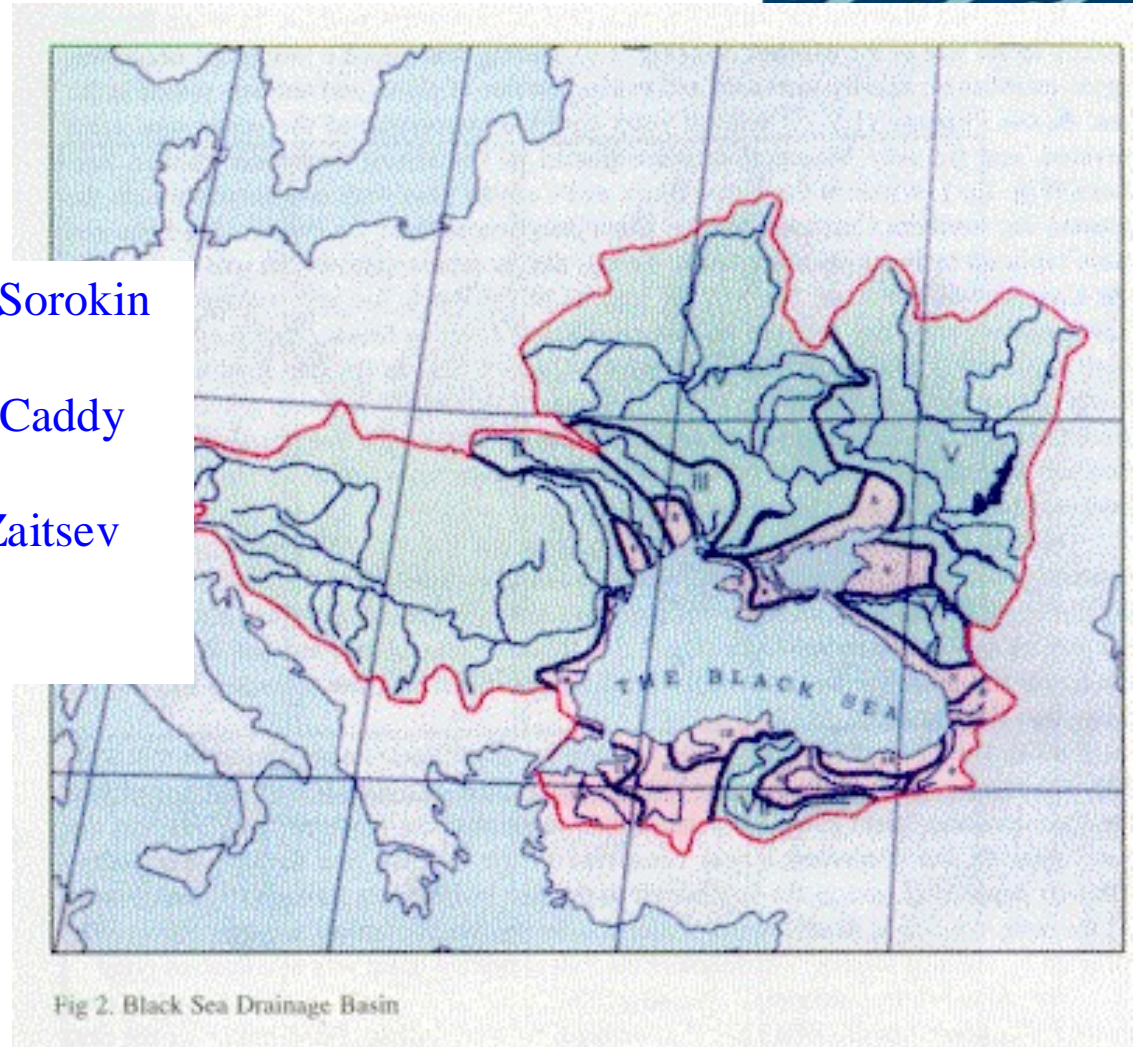
- Eutrophication/nutrient enrichment
- Adverse changes in marine living resources
- Chemical pollution (including oil)
- Biodiversity/habitat changes, including alien species introduction
- Climate change (as Cross-cutting Issue)

# High riverine input as the main reason of eutrophication of the Black Sea

(Mamaev 1997)



eutrophication started in 1940s (Sorokin 1979)  
The Black Sea is eutrophic (Caddy 1982)  
The Black Sea is hypotrophic (Zaitsev 1982)



预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_15169](https://www.yunbaogao.cn/report/index/report?reportId=5_15169)

