



## Sensitivity to Change: Black Sea, Baltic Sea and North Sea

Edited by

Emin Özsoy and Alexander Mikaelyan

NATO ASI Series

2. Environment – Vol. 27

Springer

1st  
edition

1997, XXIV, 516 p.

### Printed book

Hardcover

### Printed book

Hardcover

ISBN 978-0-7923-4535-0

£ 222,50 | CHF 352,50 | 299,00 € |

328,90 € (A) | 319,93 € (D)

Available

### Discount group

Science (SC)

### Product category

Contributed volume

### Series

Nato Science Partnership Subseries: 2

### Other renditions

Softcover

ISBN 978-94-010-6429-3

### Earth Sciences : Oceanography

Özsoy, Emin, Mikaelyan, Alexander (Eds.)

# Sensitivity to Change

## Black Sea, Baltic Sea and North Sea

Recent decades have seen a degradation of the environmental quality in semi-enclosed seas, which are particularly sensitive to population pressures due to their naturally low flushing rates related to their geometry. The North Sea, Baltic Sea and the Black Sea are amongst the most seriously threatened seas in the Euro-Asian region. Each semi-enclosed sea has a distinct pattern of circulation, transport, mixing, associated with the particular geometry, topography, boundary processes, interior stratification, atmospheric forcing, ice formation, straits / sill controls, and the specific inputs of freshwater, nutrients and pollutants. The workshop investigated the distinctive physical and ecological characteristics of the three seas in a comparative manner, in order to identify the types of driving forces and dynamic controls operating on productivity, nutrient cycling, physical transport and mixing mechanisms. A comparative study of these controlling mechanisms would allow us to better understand ecosystem sensitivity in these different environments. The workshop presentations highlighted the complexity of the semi-enclosed seas related to the interaction amongst the physical, chemical and biological fields, and differences in time and space scales in each of the systems. Further, a strong climate signal exists in these systems, manifest in the interannual, interdecadal and longer term variability. Part of the variability appears connected with background climatic variability.

### Order online at [springer.com/book sellers](http://springer.com/book sellers)

Springer Nature Customer Service Center GmbH

Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-book sellers@springernature.com

