

**THE CHERNOBIL ACCIDENT AS A MODEL FOR RADIOLOGICAL RISK
MAPPING OF EUROPE**

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ABSTRACT

The European Commission has published the “Atlas of Caesium Deposition on Europe after the Chernobyl Accident” in 1998. Greece contributed with data provided by NES/NTUA and ERL/NCSR “Demokritos”. The present work presents the results of a statistical analysis of the Atlas data, which allow to apply a simple model to the European territory, taking into account the locations and the power of 210 power reactors operating in 88 nuclear power plants (NPPs). The radioactive pollution risk patterns are presented by use of special mapping software, developed for this purpose. Special attention is paid to the Kozloduy NPP and its contribution to the risk for the Greek territory.