Geophysical Research Abstracts, Vol. 9, 08713, 2007
SRef-ID: 1607-7962/gra/EGU2007-A-08713

Variability of temperature and salinity in the Western Black Sea

A. Palazov, D. Solakov, and H. Stanchev
Institute of Oceanology, Varna, Bulgaria, (palazov@io-bas.bg / Phone: +359-52-370486)

Bulgarian Black Sea Monitoring Programme was establish to provide accurate description of the present state of the western part of the Black Sea, including living resources; surveying analysis the state and forecasts of the future conditions of the sea for as far ahead as possible, and to set the basis for forecasts of climate and environment changes. The programme has reviewed key marine physical, chemical and biological parameters that should be provided with known precision. The monitoring scheme is planed to cover both coastal zone and part of Bulgarian Black Sea economic zone to form wide research area and to provide cost effective source of marine data. A net of sampling stations is placed over the research area, securing sufficiency of information for analyses and predictions. Measurements are planed to perform seasonally, four times per year to provide information, concerning season changes of explored marine parameters. For seventeen years activity, using CTD profilers, a dataset of sea water temperature and salinity profiles was collected, which are not included in any other big datasets, related to Black Sea. Not only monitoring data but also data from different case studies are included in the dataset. The data was pre-processed, quality checked and stored in data files. Dataset is properly described and documented. Monitoring programme continues and every year several hundreds new CTD profiles are added to existing dataset. The present paper aims to demonstrate some results obtained by analysis of variability of temperature and salinity in the Western Black Sea. Seasonal and interannual variations of temperature and salinity fields are calculated, graphically presented and discussed.