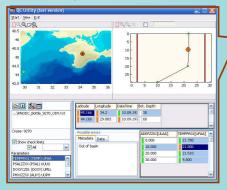
Desktop QC software test version

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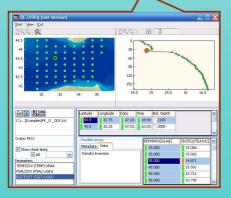
QC procedure, taking into consideration the experience of such projects as WOD; MEDAR/MEDATLAS II; NATO TU BLACK SEA, Sea-Search, SEADATANET2, Upgrade Black Sea Scene, EMODNET Chemistry-2, is realized for data in SDN and ODV Spreadsheet format. The QC procedure includes metadata and data quality tests.



>statistic check (if statistic arrays for the parameter are available),

range check (if ranges for the parameter are available),

fixing density inversions for hydrological data



The metadata tests are:

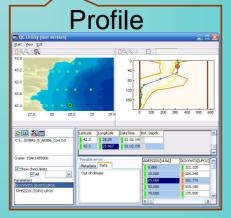
> date/time (including velocity and chronology) check,

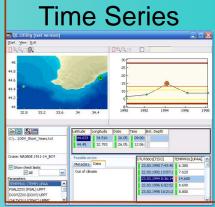
>sea depth/last sounding value check.

The data tests include

>sounding value check (including order check),

>climatic check (if climatic arrays for the parameter are available),





➤ fixing spikes...

right gradient check (if corresponding thresholds for the parameter are available).

The QC procedure uses mostly check arrays which are widely applied for data quality control in international oceanographic research projects. At the same time temperature, salinity and oxygen climatic arrays for the Black sea region were prepared by specialists of Marine Hydrophysical Institute. Climatic characteristics (mean and mean standard deviation) were calculated

for temperature, salinity and oxygen. The sub-region scheme of 40×60 minute (40×40 mile) squares accounting spatial variability of hydrological parameters was

USEC. The sub-regions for the Mediterranean Sea were taken from the MEDAR.MEDATLAS II and SeaDataNet2 projects. Certain squares with considerable spatial variability were divided into 4 parts and the climatic characteristics were calculated for each of them. The climatic arrays for temperature and salinity were prepared for each month and for oxygen – for each season. Moreover, a number of statistic annual averaged arrays for several parameters in the Mediterranean and Black seas were prepared.

