Coastal Processes Surveillance – necessary actions towards erosion control on the Romanian littoral

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Abstract

Current trends of increasing human population on the coastal areas leads to very developed urbanized zones and intensive lands uses.

Romanian Coastal zone is traditionally instable because of drought summers and flash floods, having a great demand for water and a long history of protection needs and ways identification. Romanian coasts have been specially affected by water resources use and hydrotechnical works.

The surveillance of the shoreline evolution shows the main locations with weakness and vulnerability. They need the shoreline management together with the priority for coastal protection and rehabilitation on the Romanian littoral.

It was determined the priority actions for most affected coastal area locations, together with the several complementary beach protections against the threat of high waves and storm surges, in context of the last four decades coastal geo-hydrodynamics conditions.

In this work will be presented several aspects resulted from the analysis of the current coastal erosion, its connections and interferences situation on the Romanian littoral.

Key words: Black Sea Romanian Littoral, evolution trend, coastal erosion/protection, vulnerable areas