

Mathematical meteorological assessment on measurement of tidal Currents in Port management – An evidence from Albania

Dr. Sc. Xhevdet Spahiu

Department of Mathematics, University of Gjakova “Fehmi Agani” Gjakovë, Kosovo

Abstract

Contamination from eddy currents due to the presence of electromagnetic fields is a recent phenomenon. Nowadays, these types of pollution cause considerable damage in terms of: malfunctioning of equipment and their damage, damage to marine flora and fauna, human society, and others. Recognition of these phenomena takes on particular importance for marine environments when investing and increasing demand for services provided by these facilities. Our study aims at assessing the spillage caused by electromagnetic fields by considering the meteorological factors and the quality of the ground-to-air port facilities. An important part of this study is the results obtained on the electric field intensity values, the magnetic field intensity, the electromagnetic radiation in the harbor spaces, through direct measurements with the Electro-smog TES-92 measuring instrument, as well as the absolute humidity values, temperature, atmospheric pressure and electrical resistance in these environments by means of the Thermo-hygrometer and the Barometer (atmosphere) PCE-THB 40. The work presents a complete picture of the impact of meteorological factors, temperature, atmospheric pressure and moisture content in these environments, specific resistance values, electrical conductivity and the level of pollution. Based on concrete measurements of meteorological factors and the change of specific resistance values in these spaces, we have been able to interpret the different levels of pollution from the winding currents for the seaports of our country.

Keywords: electrical resistance, electromagnetic pollution, electricalpollution, meteorological factors.

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European Journal of Economics, Law and Social Sciences ISSN 2519-1284 (print) ISSN 2510-0429 (online)

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