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## ESTIMATION OF POLLUTED AREA IN CASE OF POTENTIAL LEAKAGE OF THE CHEMICAL MUNITIONS

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### ABSTRACT

Leakage of chemical munitions is the problem, which should be monitored, but it is impossible to do it. In case of diagnosis potential leakage, it is very difficult to mark the area, which could be under influence of the released substance. Modeling is a very important tool that could be used for estimation dangerous area. Analyzing of the results of implemented passive tracer provide the main information about dangerous field. Operational model that consist of passive tracer can provide needed data for estimation. But in case of missing operational model it is possible to analyze hindcast simulations and estimate polluted area. The method also permits to estimate time duration when concentration of dangerous material is bigger then neutral. In this case passive tracer was implemented in Parallel Ocean Program adopted for the Baltic Sea. The simulations cover one year and detailed method for estimation of the hazardous area and time will be presented.



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