



IMS Correspondence Expert Group on “Drift Modelling”

Terms of Reference

IMS Group 13th User Consultation Meeting

By

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The Mandate or the Task:

The IMS Correspondence Expert Group on “Drift Modelling” should propose *Guidelines* for developing an operational IMS Drift Modelling tool to be used for Search and Rescue and other Maritime Safety purposes



High-level principles

- The Tool shall as a minimum follow the IAMSAR Standards and Recommendations;
- The Tool shall support cross-sectoral and cross-border cooperation, and where necessary, collaboration;
- EMSA will not develop a new proprietary Drift Model, but will include the possibility to connect to several existing state-of-the-art drift models through standard interfaces, hence allowing to benefit from the drift model most adapted to the local circumstances of the event;
- The Tool shall be simple and intuitive for operators of all levels and experiences.



Deliverables

Deliverable 1: a brief evaluation of the existing public and commercial Search & Rescue drift models.

Deliverable 2: requirements for the development of an operational IMS Drift Modelling tool. The requirements shall cover, *inter-alia*, the following topics:

- Identification of user work flow (e.g. request one (or more) simulations to be routed to “external” model(s));
- List of configurable drift parameters for input to the model;
- List of different types of objects whose drift should be simulated;
- Options for display of drift results (e.g. probability of results);
- Definition of user specific near-real time met-ocean data inputs;
- Configuration, selection and display of search patterns based on the output model results;
- Display of results in the SEG.



Resources and Members of the Group

Each country participating in IMS, as well as the European Commission, can nominate members. Representatives of industry with an expertise in Drift Modelling, may be invited by the Members with previous consultation of the secretariat, to provide ad-hoc expert advice. EMSA will provide the secretariat and will coordinate the drafting of the deliverables on behalf of the members of the group.

The expert group will work by email correspondence.

Timing

The first deliverables of the group will be submitted for validation to the IMS Group by IMS Group UCM#14 (tentative date November 2019).

Duration of these ToR

The mandate of the IMS Correspondence Expert Group on “Drift Modelling” will expire upon completion of all agreed deliverables.

The mandate can however be further extended by the IMS group to cover the implementation phase, i.e. the supplementary period when the tool will be technically implemented. In this phase the IMS Correspondence Expert Group on “Drift Modelling” may be tasked to test and validate the tool.



Thank You

Questions?