

Parallel Session No. 2 – SAR Drift Modelling Tool

IMS Group UCM#12

Samy Djavidnia

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Objective

To support Member States in the planning and execution of Search & Rescue cases. The aim is to have a simple and quickly configurable tool, which can respond to MRCC/JRCC operational requirements.

Observations

- EMSA will not develop a new proprietary Search & Rescue Drift model.
 - Strategy is to connect SEG to state-of-the-art models.
 - IMS users will input the parameters and request one (or more) simulations which will be routed to the “external” model(s).
 - The results will be returned and displayed in the SEG.
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- ✓ As the drift models need environmental (wind and ocean conditions) datasets as input parameters, EMSA will, on behalf of all IMS MS, coordinate with the Copernicus Marine Environment Monitoring Service (CMEMS) and the European Centre for Medium-Range Weather Forecast (ECMWF), access to the ocean currents and wind forecast data.
 - ✓ However, when relevant and necessary, IMS MS are expected to liaise with national organisations for the availability of high resolution model ocean current and wind outputs.

High-level User Requirements: Priority 1 (Must Have's)

- To run the Search & Rescue Drift Modelling simulation, the user shall be able select or insert the following parameters:
 - Type of feature/object (person, raft, etc.)
 - Last known position of the feature/object (Lat, Lon and radius)
 - Date and time of last known position;
 - Duration of the simulation: from 0 to 24 hours max.
- Results of simulation will be displayed on the SEG;
- Results of simulation will include:
 - Distribution of possible simulated locations
 - Mean trajectory
 - Predicted SAR Area Envelope

Medium-level User Requirements: Priority 2 (Nice to Have's)

- Results of simulation will be exportable;
- Users will be able to select and display pre-determined SAR Search patterns;
- Mobile version of the tool shall be available for the Mobile devices (phones, tablets);

Low-level User Requirements: Priority 3

- Users will be able to display the environmental (weather and oceanographic) data used to run the simulation.



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