

1st meeting of the IMS Correspondence Expert Group on “Drift Modelling”

Meeting Minutes

Held via videoconference

14 April 2021

version 1.0

Date: 24 May 2021

Background

The 1st meeting of the IMS Correspondence Expert Group on “Drift Modelling” took place via videoconference on 14th April 2021. The meeting was chaired by Mr Lukša Čičovački, EMSA.

EU MS delegations from Belgium, Croatia, Denmark, France, Iceland, Ireland, Portugal, Romania, Spain and The Netherlands attended the meeting. The European Commission was represented by Mr Jacob Terling and Alexander Hoffman (DG Mobility & Transport (MOVE), Unit D.2 Maritime Safety). EMSA was represented by 5 participants from different units with experience in SAR, Drift models and/or IMS. The list of participants is attached in Annex 2.

All documentation and presentations may be obtained via Teams (dedicated workgroup) and will be published at: <http://www.emsa.europa.eu/combined-maritime-data-menu/consultation-meetings-documents.html>.

1. Welcome and Opening

The chairman welcomed all participants and recalled the importance of expanding the IMS toolbox for Search and Rescue. The agenda was adopted without change (see Annex 1).

Mr Jacob Terling, representative of the European Commission, recalled that this expert group is created under the IMS group and its Terms of Reference were approved by the High-Level Steering group. In addition, Mr Terling recalled that the outcomes of this work will come from the users needs and aim at supporting national authorities within their mandate.

All participants introduced themselves via a tour de table showing a wide experience in Search and Rescue, drift models including marine forecast, general coast guard operations.

2. Presentation of the expert group mandate

EMSA presented the background and the mandate of the expert group.

In brief, the group shall propose “*Guidelines for developing an operational IMS Drift Modelling tool (for SAR and other Maritime Safety purposes)*”. For this, the following will be considered:

- Follow the IAMSAR standards and recommendations;
- 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;
- Shall be simple and intuitive for operators of all levels and experiences.

To achieve this goal, 2 deliverables are considered:

- First a brief evaluation of the existing public and commercial SAR and other Maritime Safety purposes drift models
- Then the requirements for the development of an operational IMS drift model tool

It was recalled that the mandate of the group is not focusing only on SAR activities but can be extended to maritime safety purposes such as e.g. containers adrift, timber, vessels (outside Sar scope). The maritime pollution including oil pollution response aspects are out of the scope of this group.

3. Focus on deliverable 1: a brief evaluation of the existing public and commercial Search & Rescue and other Maritime Safety purposes drift models

EMSA prepared and presented a draft template (fiche) to record the main characteristics of drift modelling tools. The main aspects to be identified in the fiche are: a general description, met ocean data used/available, interfaces (Web/S2S), who uses the tool, how to get the tools (commercial, free of charge?), upgrade/availability, any other points.

Then the exchange started on listing the tools known/used by the participants. Important aspects as the METOCEAN data availability and resolution, hosting, interfaces available were discussed. This was very fruitful and a list of 11 tools were identified and for each tool one or several experts or EMSA were nominated to fill in the fiche (see Annex 3).

Action 1: EMSA and the experts to fill in the fiche(s) they are in charge off.

4. AOB's, summary, conclusions and follow-up actions

The chair thanks all participants for this very promising start and asked participants to think about use cases to support the requirements. He tasked EMSA team to search for more information about METOCEAN data that could be available at EU level.

Action 2: EMSA to search for more information about METOCEAN data that could be available at EU level.

The work will continue by correspondence (fiches preparation). Additional online meetings will be organised to discuss about the tools available and prepare the deliverable 2 (requirements).

Annexes

Annex 1 – Agenda

Annex 2 – Attendance List

Annex 3 – List of drift modelling tools identified

Annex 1 – Agenda

Wednesday, 14 April 2021 – 1st IMS Correspondence Expert Group on “Drift Modelling”

Time	Agenda Item	Speakers
08:45 – 09:00	Registration	
09:00 – 09:30	Opening / Introduction Input from the Commission	EMSA COM
09:30 – 10:00	Presentation of the expert group Mandate (ToR)	EMSA
10:00 -11:30	Focus on deliverable 1: a brief evaluation of the existing public and commercial Search & Rescue and other Maritime Safety purposes drift models	EMSA/MS
11:30 – 11:45	Summary of the follow up actions	EMSA

Annex 2 – Participant List

ID	Country	Organization
1	BE	Agency for Maritime Services & coast, shipping assistance division
2	BE	Head of Belgium Marine Forecast (drift modelling expert)
3	HR	Ministry of the Sea, Transport and Infrastructure
4	HR	Ministry of the Sea, Transport and Infrastructure (SAR mission coordinator)
5	HR	Ministry of the Sea, Transport and Infrastructure (SAR mission coordinator)
6	DK	Royal Danish Navy Command (JRCC Denmark)
7	FR	Meteo France (drift Modelling expert)
8	IS	Icelandic Coast guard (Chief controller, operations center / JRCC)
9	IE	Irish Coast Guard (SAR mission coordinator)
10	PT	Portuguese Navy – MRCC Delgada (Operations Manager and SMC)
11	RO	Romanian Naval Authority (Head MRCC)
12	ES	SASEMAR - Maritime Rescue and Safety Society (Head MRCC)
13	ES	SASEMAR - Maritime Rescue and Safety Society (Head of unit in charge of developing user facilities)
14	NL	Ministry of Infrastructure and Water Management

EU Commission and EMSA Staff		
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Annex 3 – List drift modelling tools

Model	Link	Who use it?	Public or Commercial?	Fiche drafting
MOTHY	http://www.meteorologie.eu.org/mothy/	FR 1 version for SAR, 1 for CTR 24/24	Free for French national auth. Agreements with some countries	FR
SAROPS Search and Rescue Optimal Planning System	https://en.wikipedia.org/wiki/Search_and_Rescue_Optimal_Planning_System	USCG		EMSA to investigate if it is limited to USCG.
SARMAP	http://asascience.com/software/sarmap/	Irish CG, Australian MSA, NL, New zealand, HR, NL admin for maritime safety, SASEMAR for SAR and training for operator		NL, HR, ES, IE
SARIS Search and Rescue Information System	https://www.bmt.org/bmt-saris/	BE and JRCC DK, NL CG for SAR,		BE, DK
OCEAN-SAR	https://www.cmcc.it/data-services-and-products/data-visualization-systems/ocean-sar-search-and-rescue	Hellenic Coast Guards		EMSA to contact Greece and search for more info and fill in the fiche.
SARMASTER	https://www.honeywellai dc.com/products/workflo	Contain a component for drift modelling		EMSA to Search for more info

	w-solutions/search-and-rescue/sarmaster600	EMSA to Search for more info and fill in the fiche		and fill in the fiche
OSERIT	https://oserit.naturalsciences.be/	BE Navy, RBINS, Belgian DG-Environment Back up SARIS for SAR. 50 users (BE, FR, UK, NL)	Inhouse (BE) system with restricted access. Not for Public but available to Maritime authorities.	BE
NOOS DRIFT	https://odnature.naturalsciences.be/noosdrift/api/accounts/login/	Demonstrator	Give access to forecast by Mothy (FR), OSERIT (BE) and OpenDrift (NO)	BE, FR
OVERSEE	https://criticalsoftware.com/en/industries/defence/product/maritime-security-operations https://www.criticalsoftware.com/downloads/resource/oversee-irish-coast-guard https://criticalsoftware.com/multimedia/critical/en/IJL2JryVD-CSW_-_Case_Study_-_Oversee_-_A_Sea-Change_in_UxD.pdf	Portuguese Navy – MRCC Delgada and MRCC Lisbon	Commercial tool tailored for PT Navy	PT
Open Drift		NO		EMSA Contact NO