

IMS Correspondence Expert Group on “Drift Modelling” to support SAR and Maritime Safety

IMS UCM 16.4 – 4

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Lisbon, 26.05.2021



- **To propose Guidelines for developing an operational IMS Drift Modelling tool (for SAR and other Maritime Safety purposes)**
 - 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.

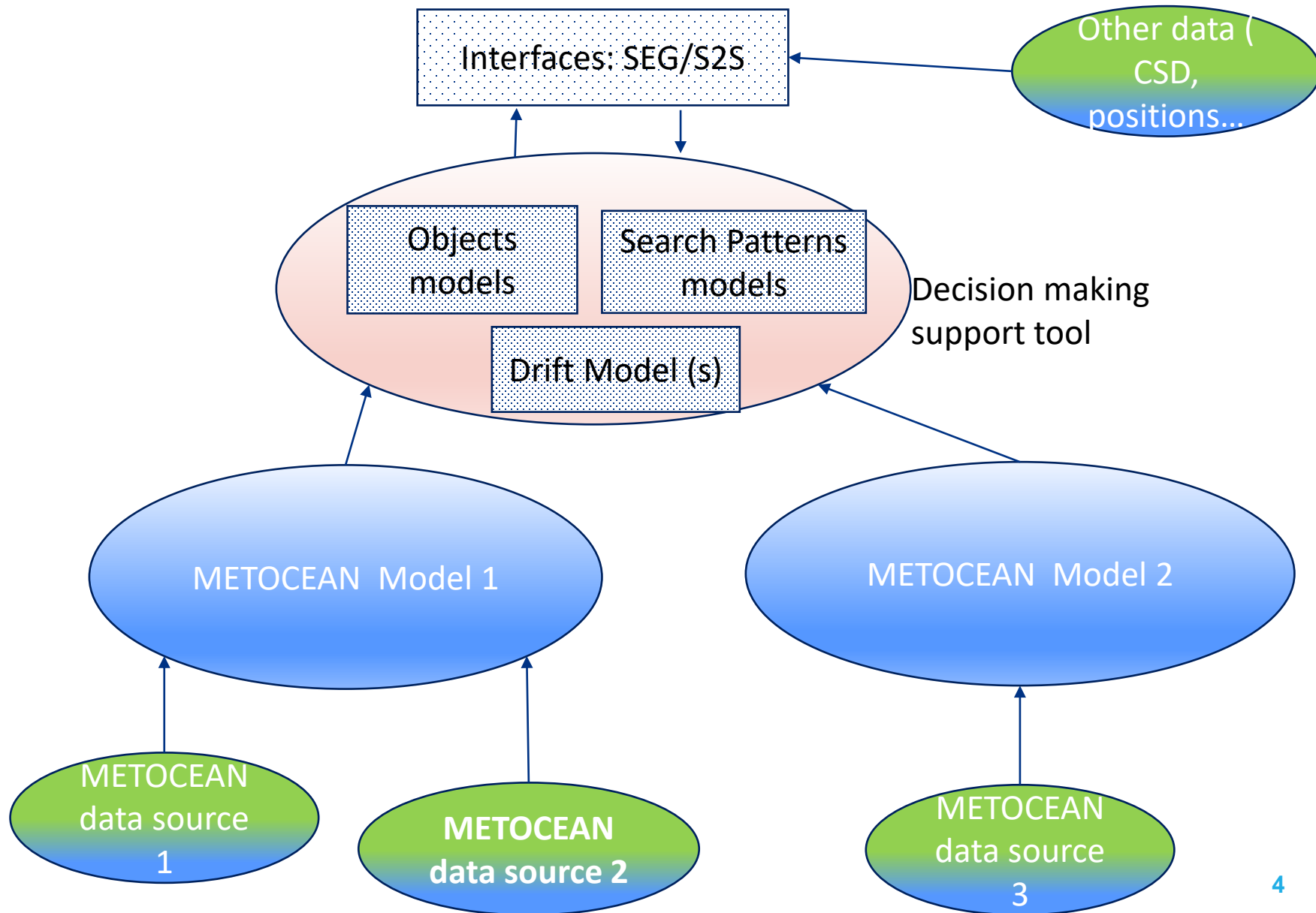
- **Deliverable 1: 26 May 2021**

Brief evaluation of the existing public and commercial SAR and other Maritime Safety purposes drift models.

- **Deliverable 2: Oct 2021**

Requirements for the development of an operational IMS Drift Modelling tool.

- Identification of user workflow
- List of configurable drift parameters for input;
- 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;
- Met-ocean model specification;
- Configuration, selection and display of search patterns based on the output model results;
- Display of results in the SEG.



The meeting was attended by delegation from:

- **Belgium, Croatia, Denmark, France, Iceland, Ireland, Portugal, Romania, Spain, The Netherlands, The EU Commission (DG MOVE) and EMSA for a total of 25 participants.**

EMSA introduced:

- **the background, terms of reference and purpose of the meeting:**
 - working on deliverable 1 (Brief evaluation of existing Public and commercial models for SAR and Maritime Safety)

The group worked on listing existing drift models and to agree on the experts that would work on preparing the fiche for each model using a template:

Model Name	Link	Who use it	Remark
MOTHY	http://www.meteorologie.eu.org/mothy/	FR, 1 version for SAR and 1 for CTR	Free for French national auth. Agreements with some countries.
SAROPS	https://en.wikipedia.org/wiki/Search_and_Rescue_Optimal_Planning_System	USCG	EMSA To investigate if it can be used/purchased
SARMAP	http://asascience.com/software/sarmap/	Irish CG, Australian MSA, NL Maritime administration, HR, Spain (SASEMAR for SAR and training for operator)	Commercial tool,

Model Name	Link	Who use it	Remark
SARIS	https://www.bmt.org/bmt-saris/	BE and JRCC DK, NL CG for SAR,	
OCEAN-SAR	https://www.cmcc.it/data-services-and-products/data-visualization-systems/ocean-sar-search-and-rescue	Hellenic CG	EMSA to Contact GR and Search for more info to fill in the fiche
SARMASTER	https://www.honeywellaidc.com/products/workflow-solutions/search-and-rescue/sarmaster600		EMSA to Search for more info and fill in the fiche

Model Name	Link	Who use it	Remark
OSERIT	https://oserit.naturalsciences.be/	BE Navy (MIK), RBINS, Belgian DG- Environment Back up SARIS for SAR. 50 users (BE, FR, UK, NL)	Inhouse (BE) system with restrict ed access. Not for Public but available to Maritime authorities.
NOOS DRIFT	https://odnature.naturalsciences.be/noosdrift/api/accounts/login/	Demonstrator	Give access to forecast by Mothy (FR), OSERIT (BE) and OpenDrift (NO)

Model Name	Link	Who use it	Remark
OVERSEE	https://criticalsoftware.com/en/industries/defence/product/maritime-security-operations	Portuguese Navy – MRCC Delgada and MRCC Lisbon	Commercial tool tailored for PT Navy
OPEN DRIFT		NO	EMSA to Contact NO

- **Conclusion**
- 11 models have been identified
- The fiches for each model are under preparation/finalisation
- The available fiches will be shared with the IMS group by correspondence to close the deliverable 1
- **Next steps**
- Prepare deliverable 2 (requirements for drift models) making use among others of the information gathered through deliverable 1



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