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**□** DTEC **□** VTS **□** Information

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Technical Domain / Task Number 2 …………………………………

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Proposal for Guideline on the collection, integration, and dissemination of oceanographic and meteorological data to mariners

# Summary

This input paper is aimed at proposing the addition of a new task to develop a guideline on the collection, integration, and dissemination of oceanographic and meteorological (Metocean) data to mariners with the aim of providing guidance to Competent Authorities that wish to provide this type of service.

## Purpose of the document

Starting a new task to work on the development of a new Guideline that would provide a broader and more complete document that the one initially programmed with the 2.3.3 task to “Develop Guideline on meteorological and oceanographical data dissemination”, which was cancelled, and integrate at least part of the topic planned to be developed in a new Guideline on complimentary use of AtoN.

## Related documents

* Draft IALA Guideline “Guideline on Meteorological and Oceanographic Data Dissemination”

# Background

During ENG16, the group working on Task 2.3.3 “Develop Guideline on meteorological and oceanographical data dissemination” concluded the topic of this task formed part of a broader subject related to the collection of Metocean data and its dissemination by Competent Authorities and suggested a broader Guideline to be proposed.

# Discussion

In order to provide guidance to Competent Authorities on the topic of Metocean data collection and dissemination a broader Guideline is needed to outline the different aspects to consider in the set up of such a service including definition of parameters to be measured, selection of equipment and technologies, design of communication systems, design of solutions for the dissemination of data. This guideline would serve a tool as well as outline good practices to set up such a system while referring to other applicable IALA Guidelines and Recommendations depending on the system designed (e.g., on buoys, on communications, etc.).

This broader Guideline should also include at least part of another related proposed Guideline on the complimentary use of AtoN. It is my understanding that this proposed Guideline is aimed at defining other uses that AtoN systems could offer such at tsunami monitoring, met hydro monitoring or private communications platform.

This part would be included in the equipment design and would detail how in such projects Competent Authorities should evaluate the possibility of installing measurement equipment on existing AtoN structures or substituting existing AtoN structures with new systems with double use as AtoN marking and measurement systems. Indeed, data buoys do not need to be exclusively ODAS buoys or Special Mark but other marks could be considered depending on the location for measurement.

However, I would like to add a nuance that tsunami systems should not be discussed in such a Guideline. Tsunami systems are installed at very high depth in areas that are remote and not where AtoNs are normally located. As far as I’m aware the closest to shore of those systems are 58 and 71 nm from the coast but the majority are over 150nm from the coast and up to >1000 nm.

For this proposed Guideline, the following content list could be used:

## Data Collection

### Definition of parameters and sensors’ selection

### Definition of structures

1. Fixed structures
2. Floating structures

### Design studies and design considerations

* Solar power autonomy calculations, mooring calculations, etc.
* Complimentary use of AtoN
* Incorporating provisions for the safety of systems: vandalism, collisions, etc.

## Data processing and transmission

### Data quality control and format

### Transmission strategies

## Data Dissemination to Users

### Dissemination Strategies

* Direct broadcasting vs Data filtering
* Segmentation of users
* Monetized strategies and third party data sharing

### Systems for dissemination of data

1. AIS Message 8
2. VHF radio
3. Panels
4. Website/API

## Project implementation

### Installation and Training

### Operation and maintenance

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)