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Agenda item [[2]](#footnote-3) 8.4

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Update of S-200 test bed and proposed future plan

# Summary

A web-based S-200 test bed was developed to support the development of IALA S-200 series product specifications. The S-200 test bed system has been updated according to comments from ARM members. In relation to the VTC Committee's request to utilize the S-200 test bed, an operation plan was proposed.

## Purpose of the document

This document aims to share updates to the S-200 test bed and discuss future functional improvements and operation plans for the S-200 test bed

## Related documents

S-201 Aton Information (Edition 1.1.0, October 2022)

# Background

To support the development of IALA's S-200 series product specifications, the S-200 test bed was developed, and as a start, a function was developed to input some ton information among S-201 data model and check the entered information. Some IALA members tried the S-200 test bed and provided comments.

# Improvements of S-200 test bed

IALA secretariat, Canada, and France input S-201 data into the S-200 test bed and provided review comments. Comments provided are as follows:

* Change the domain address to Official one
* Purpose of country code
* Include additional values in Light characteristic
* Include additional value in Structure colour
* Add none value in Colour pattern
* Unable to edit entry after entering
* Sometimes, the name of the aid appears as “null.”
* Unable to include additional equipment related to the aid (e.g. adding a bell to a buoy)
* The testbed appears to be “adjusting” the coordinates of most aids slightly.
* “Light beacon” type does not have all the fields necessary to sufficiently capture information for sector and range lights.
* the light colour is not necessarily predicted correctly for “Light buoy” types that are “BuoySpecialPurposeGeneral.”
* the choice of colours and patterns do not match what is used in Canada, as well as the lack of indicating the presence of a daymark,
* There appears to be a typographical error
* French name of the aid was indicated under the “Name in national language” field.
* Only the year could be provided for the “Installation Date” field.

KRISO/Bluemap improved the functions of S-200 test bed considering comments from ARM members and it is invited to try the S-200 test bed system again in below link

* https://www.iala-aism.org/technical/data-modelling/s-200-testbed/
* https://tds.bluemap.kr/

The domain address is planned to be changed to S-200testbed.iala-aism.org in the future.

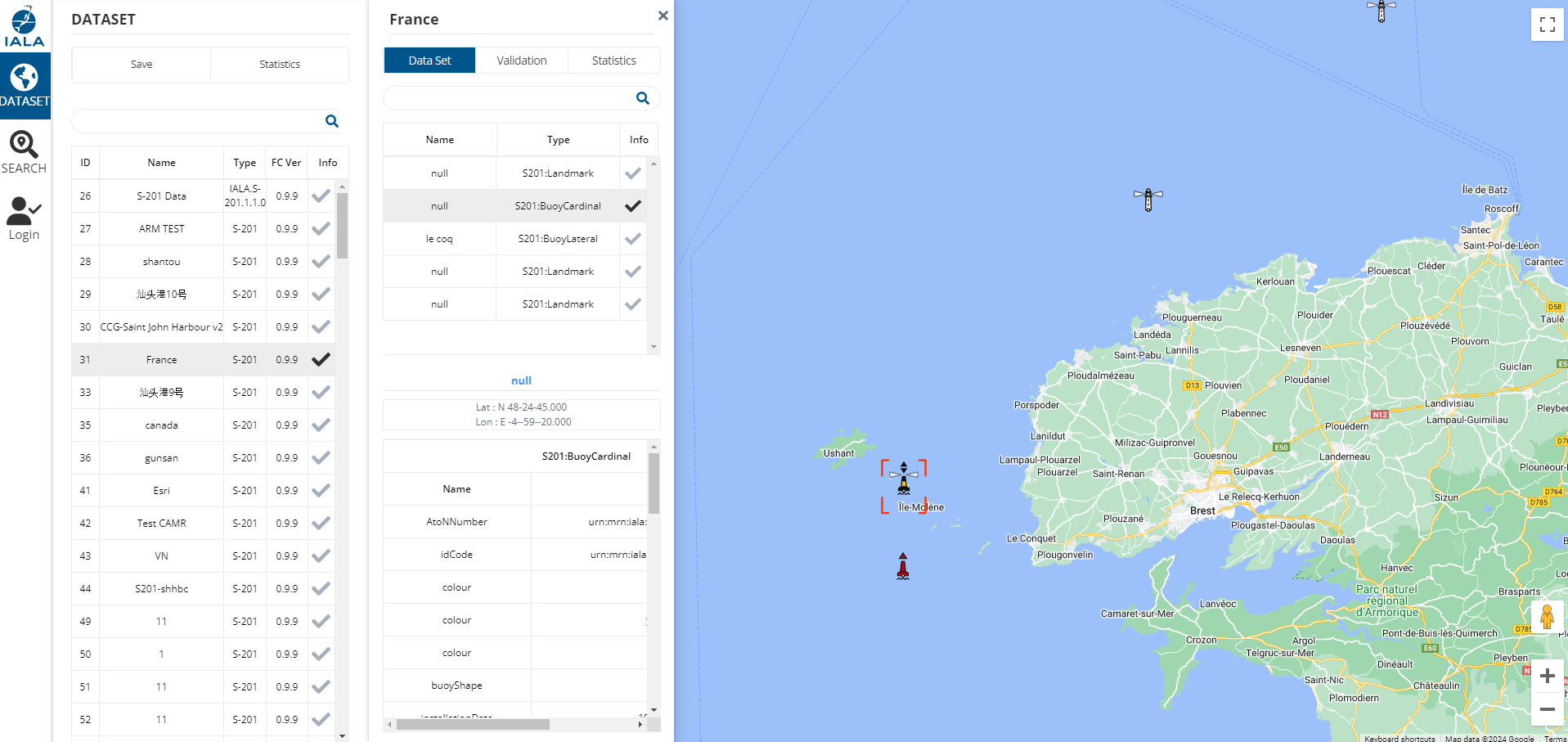


Fig. 1. Screen shot of S-200 test bed

# Information service via S-240 test bed

The main function of the S-200 test bed is to input information on some of Aton (lighthouse, light buoys/buoy, and light beacon/beacon) among the S-201 data models, display the entered information on the map, and download the entered Aton data as S-201 data format. In order to increase the usability of the S-200 test bed and include information service functions, it is necessary to provide the information managed by IALA as S-200 series data. IALA maintains a list to manage DGNSS Station around the world.

Since the DGNSS Station list can be provided as S-240 data, it needs to update S-240 product specification and discuss S-240 data service plans via the S-200 test bed.

# proposed future plan of S-200 test bed

The S-200 test bed consists of web input/map interface and a geo-spatial DB that can store S-200 data in vector format. Currently, only some information among the S-201 Aton data model can be entered, and there are no cases of applying S-200 data other than Atons.

In relation to the recent discussion by the VTS Committee on whether to apply S-210 IVEF and S-212 VTS digital Information data to the S-200 test bed, it would be necessary to expand the scope of the S-200 test bed.

When applying S-200 series data to the S-200 test bed, a user interface must be prepared to enter details of the complex data model of each product specification. The current S-200 test bed lacks the ways to input all the feature/information/attributes of the data model.

The web user interface of the S-200 test bed need to be improved to allow input according to the Feature Catalogue of the S-200 series product specification, and validation of S-200 data should be strengthened to allow S-158 Validation rules being developed by the International Hydrographic Organization.

At the ARM18 meeting, expansion of S-200 test bed and future operation plans need to be discussed.

# Action requested of the Committee

The Committee is requested to note the updates of S-200 testbed and take actions as appropriate.

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-2)
2. Leave open if uncertain [↑](#footnote-ref-3)