S-64 Version 4

Table of Contents

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Introduction and Background

Introduction to IHO S-64 version 4

Chapter 1. Executive Summary

- Main points of document.

Chapter 2. Background

Background here - use of S-64 to assist type approval testing.

2.1. IHO S-100

- Background to development of IHO S-100
- Marine Standards.

2.2. Document contributor contact points

All questions regarding this document should be directed to the editor or the contributors:

Contacts

Name	Organization	Role
Jonathan Pritchard	IIC Technologies	Editor

2.3. Foreword

Copyright statements etc...

Recipients of this document are requested to submit, with their comments, notification of any relevant patent claims or other intellectual property rights of which they may be aware that might be infringed by any implementation of the standard set forth in this document, and to provide supporting documentation.

2.4. Document Structure

Explanation of document structure

2.5. An Example Test.

This is an example of a test generated from ASCIIDOC straight to PDF. the test itself is included in the tests subfolder and any images included in the tests/images subfolder. Once this is done, the main s64v4.adoc file just includes the test and it is automatically included in the final PDF and HTML documents.

The asciidoc file contents used to create the test in the following chapter is shown in the text below:

```
==== Loading a Corrupted update

===== Corrupted update load.

[width="95%",caption="",stripes="odd"]
|====================
|Test Reference    |    2.2.1   | IHO Reference | IEC61174 / 4.4.1
|====================
[width="95%",caption="",stripes="odd"]
|====================
|Test Description
|Loading of initial datasets and indication of own ship stationary position.
|Setup
a| Load cells:

* 2.1.1 Power Up\ENC_ROOT\GB4X0000.000
* 2.1.1 Power Up\ENC_ROOT\GB5X01NW.000 with the following settings:
* Select Display Category Other
* Set the Safety Contour value to 8 m
* Set the Safety Depth value to 8 m
* Select Symbolized Boundaries
* Select Paper chart symbols
* Select all Text groups
* Select Accuracy
* Select Highlight info
* Select Highlight date dependent
* Ship position 32°29.66□S, 060°55.86□E
* Heading 234.0 degrees
| Action
| Load cells and view the chart display.
| Results
a| With the charts displayed the own ship shall be placed at the jetty in Micklefirth.

.GB4X0000.000
image::images/demotest1.png[scaledwidth=100%,align="center"]

_After loading of GB4X0000.000, displayed scale 1:50 000 Note: Screen plot above is based on the full text NATSUR
attribute. To reduce undue clutter in the ECDIS chart display, the use of the abbreviations of the NATSUR attribute is
recommended (see screen plot on next page). Note: Within this test dataset there are two omni directional lights co-
located at 32º34.688S, 060º54.955E, this case is not a real-world example, as such the ECDIS may show a red-light
sector._
|====================
```

2.6. Tests

2.6.1. Loading a Corrupted update

Corrupted update load.

Test Reference	2.2.1	IHO Reference	IEC61174 / 4.4.1

Test Description
Loading of initial datasets and indication of own ship stationary position.
Setup

Load cells: • 2.1.1 Power Up\ENC_ROOT\GB4X0000.000 • 2.1.1 Power Up\ENC_ROOT\GB5X01NW.000 with the following settings: • Select Display Category Other • Set the Safety Contour value to 8 m • Set the Safety Depth value to 8 m • Select Symbolized Boundaries • Select Paper chart symbols • Select all Text groups • Select Accuracy • Select Highlight info • Select Highlight date dependent • Ship position 32°29.66’S, 060°55.86’E • Heading 234.0 degrees
Action
Load cells and view the chart display.
Results

With the charts displayed the own ship shall be placed at the jetty in Micklefirth.

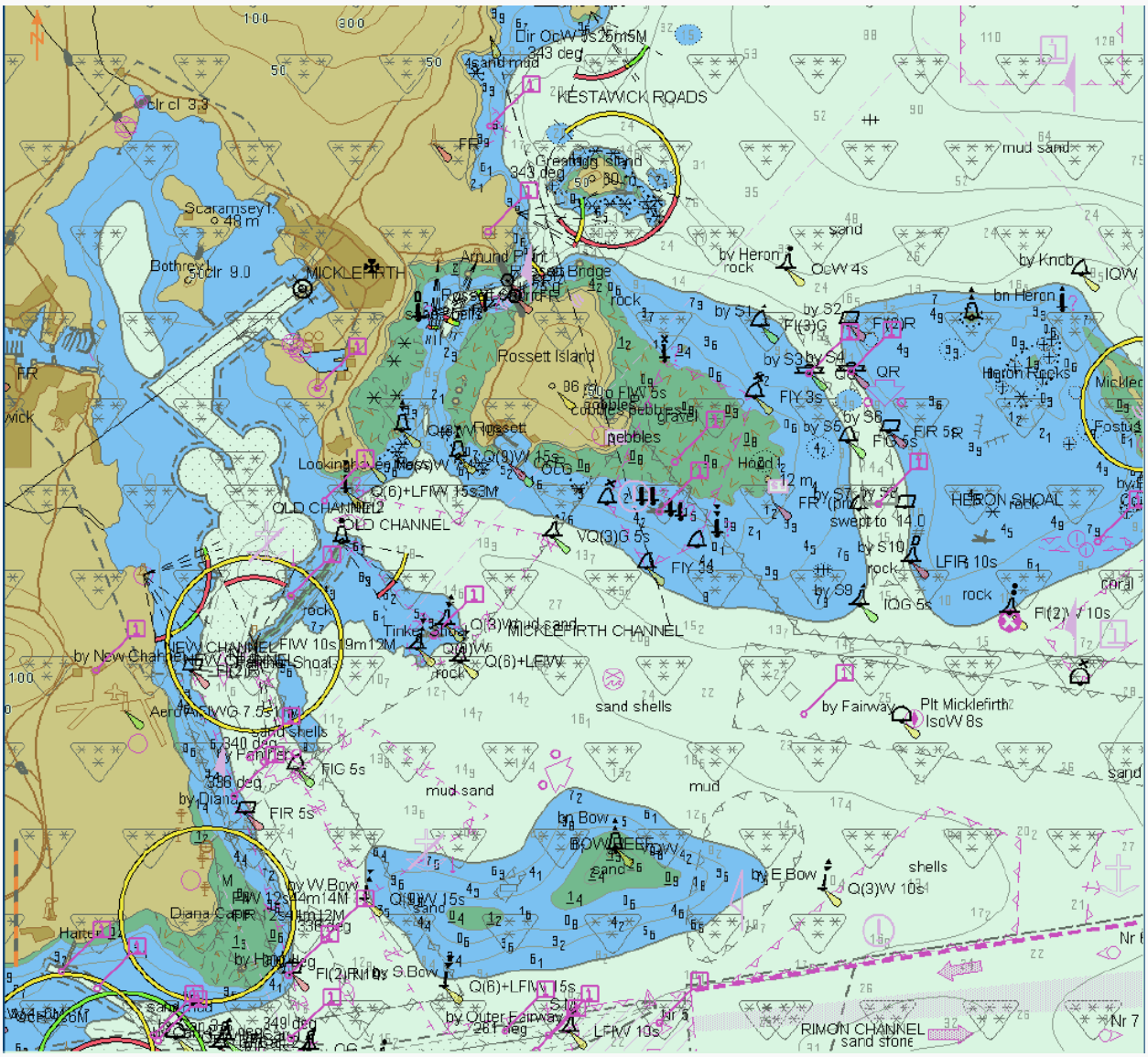


Figure 1. GB4X0000.000

After loading of GB4X0000.000, displayed scale 1:50 000 Note: Screen plot above is based on the full text NATSUR attribute. To reduce undue clutter in the ECDIS chart display, the use of the abbreviations of the NATSUR attribute is recommended (see screen plot on next page). Note: Within this test dataset there are two omni directional lights co-located at 32°34.688S, 060°54.955E, this case is not a real-world example, as such the ECDIS may show a red-light sector.

Chart Loading and Unloading

Chapter 3. Chart Display

3.1. Display of ENC data

3.1.1. Display Base Category

Test Reference	3.1.1	IHO Reference	S-52 14.3

Test Description
The purpose of the test is to verify by observation that ECDIS correctly displays all ENC objects included in the IMO Display Base category. The test is performed by loading to ECDIS test S-57 cell and checking display against graphical plots. The test ENC cell AA5DDBASE.000 contains all ENC objects belonging to Display Base according to the IHO S-52 Presentation Library..
Setup
Load cell AA5DBASE.000 from 3.1 ENC Display\Base\ENC_ROOT with the following settings: • Select Display Category Base • Set the Safety Contour value to 10 m • Set the Safety Depth value to 10 m • Select Symbolized Boundaries
Action
Check ENC symbols shown in the ECDIS against the graphical plot.
Results

The ENC in the ECDIS should be shown like in the picture below (scale 1:60 000).

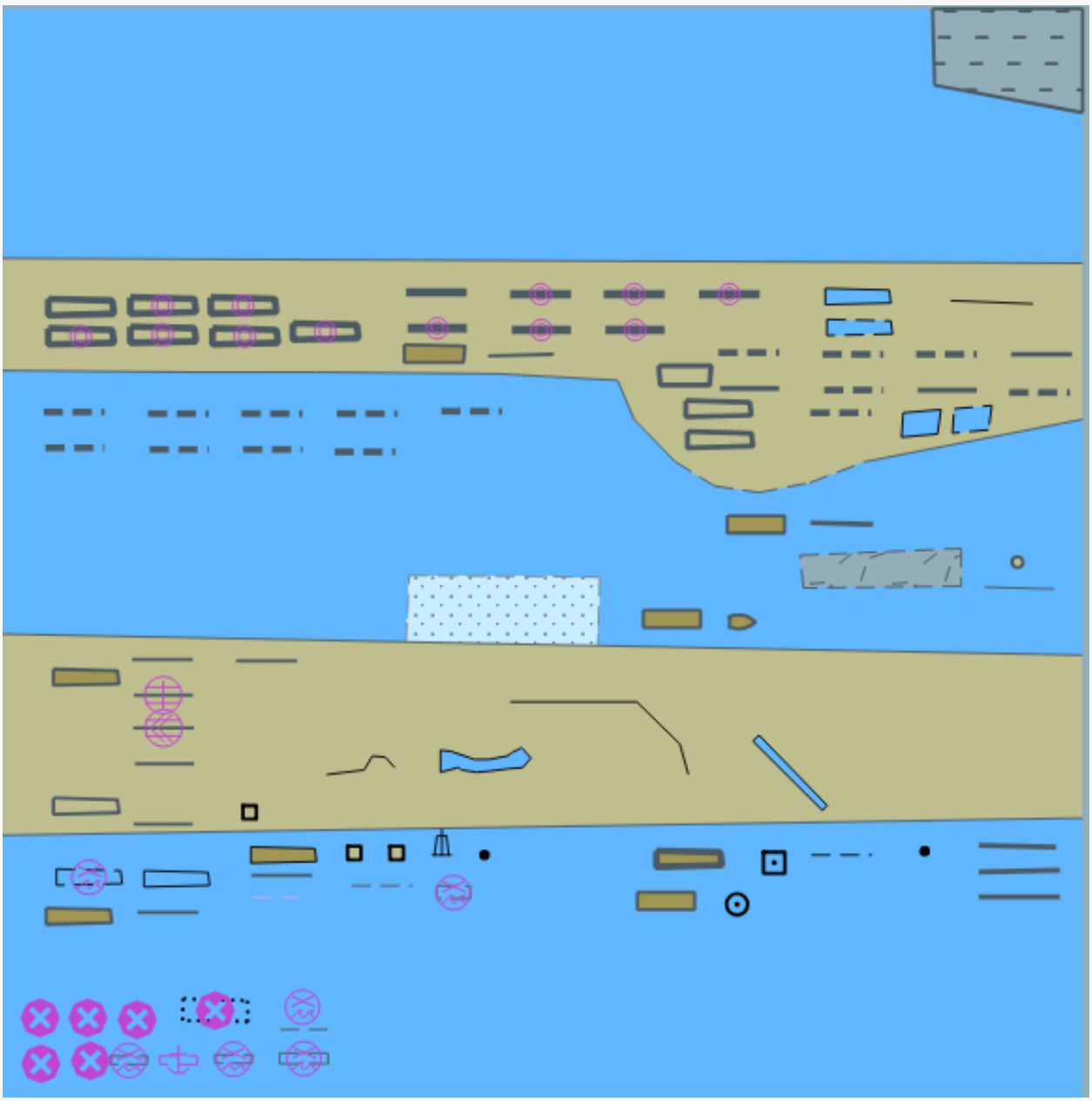
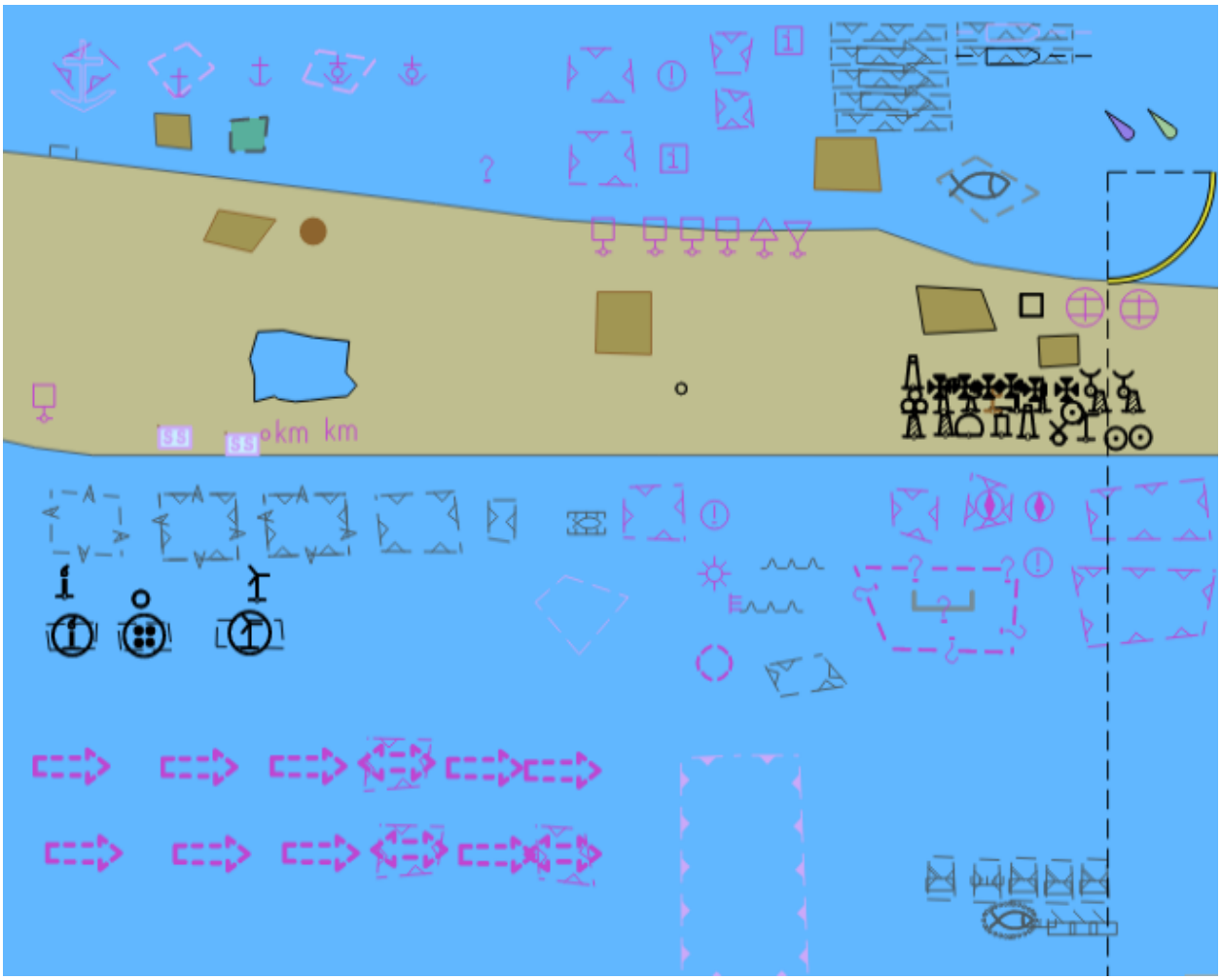


Figure 2. Test 3.1.1 image

3.1.2. Standard Display Category

Test Reference	3.1.2	IHO Reference	S-52 14.3

Test Description
The purpose of the test is to verify by observation that ECDIS correctly displays all ENC objects included in the IMO Standard Display category. The test is performed by loading to ECDIS test S-57 cell and checking display against graphical plots. The test ENC cell AA5STNDR.000 contains depth and land areas from Display Base plus all ENC objects belonging to Standard Display according to the IHO S-52 Presentation Library. The objects belonging to Standard Display are to be shown if Standard Display is selected in ECDIS HMI and should be disappearing in the Display Base mode.

Setup
Load cell AA5STNDR.000 from 3.1 ENC Display\Standard\ENC_ROOT with the following settings: • Select Display Category Standard Display • Set the Safety Contour value to 10 m • Set the Safety Depth value to 10 m • Select Symbolized Boundaries • Select Simplified Points
Action
Switch on Standard Display. Check ENC symbols shown in ECDIS against graphical plot.
Results
• Confirm that depth and land areas from Display Base are shown • The ENC in the ECDIS should be shown as in the picture below (scale 1:70 000).  *Figure 3. Test 3.1.2 image*