

# ic-enc

## NIOHC15 – IC-ENC Capacity Building

Mr. James Harper

# Agenda

- ▶ IC-ENC Capacity Building
  - ENC Production Support for HOs
  
- ▶ IC-ENC ENC Validation Training course
  - Aims
  - Course structure
  - Key modules

# Background:

## IC-ENC ENC Production Support

### ► Existing:

- Technical visits to HOs
- HO production staff work alongside IC-ENC validation team in IC-ENC offices
- Technical Experts Working Group

### ► New:

- **IC-ENC ENC Validation Training course**

# ENC Validation Training Course

## Aims:

- ▶ Provide the knowledge and skills required to carry out ENC validation
- ▶ Build working relationships between HO production team and IC-ENC personnel



# Pilot Course - 2014

- ▶ Developed course material and training plan
- ▶ 3 trainees
  - Feedback provided and actioned
- ▶ Report to IC-ENC Steering Committee:
  - Endorsed the concept
  - Budget approval for three courses during 2015



# Course structure (2015)

- ▶ Duration: 2 weeks
- ▶ Locations (2015):
  - UK, February, complete
  - Australia, June, arrangements in place
  - Latin America, October, in development
- ▶ This means *at least one invitation* to be made to all 35 IC-ENC member nations over 2015
- ▶ 2016 programme to be submitted for approval by IC-ENC Steering Committee (Sept 15)

# Course structure: modules

Module	Content
1. Introduction to ENC and IC-ENC	Roles, purpose and responsibilities of ENC production and IC-ENC
2. IC-ENC procedures	Data flow, IC-ENC documentation and procedures
3. Supply, downloading, and registering of data	DMD, FTPS, cell cancellations and replacements
4. Supporting sources/documentation	IC-ENC website, IHO website, Encoding Bulletins, IHO publications e.g. S-58 Product Specifications, Use of the Object Catalogue
5. Validation tools	dKart Inspector, 7Cs ENC Analyzer and Designer, eGlobe ECDIS, Transas 3000 ECDIS
6. Data Validation	S-57 and S-58 checks, IC-ENC Errors Database, categorisation of errors
7. Data consistency checks	ENC header information, vertical and horizontal consistency, SCAMIN, text files, generalisation, etc.
8. ECDIS	Introduction to the implementation and use of ECDIS, practical exercises using Transas 4000 ECDIS
9. Reports	Summary report, P007 validation feedback report, Country Information, Cell Information, production forecasts
10. Data distribution	Pricing, IC-ENC software and creation of the exchange set, Value Added Resellers, S-63
11. Review	An overview of all topics covered throughout the course
12. Graduation	Presentation of training certificates and photos



www.ic-enc.org

ic-enc

Home About us Core Services Coverage Membership **Capacity Building** Contact us

Members

Regional Office Concept  
ENC Validation Training Course

Welcome from the IC-E



## ic-enc

# Module: IC-ENC Errors Database ic-enc

[Back to Site](#) [ERRORS](#)

## ic-enc

### List

lights

Attribute 'COLOUR' must be ...  
Attribute 'LITCHR' must be g...  
Attribute 'ORIENT'  
Attribute 'SIGGRP' must be ...  
Attribute 'SIPER' must be ...  
ERROR 95:  
LG0022: (T1503)  
LG0022: (T1750)  
LG0022: (T1750)  
LG0022: (T1755)  
LG0033: (T1781)  
LG0043: (T1778)  
LG0044: (T1778)  
LG0074: suspicious gap  
LG0074: (T1845)  
LG0080  
LG0085  
LG0086: (T0542)  
LG0087: (T0065)  
LG0100: (T0507) mandatory...  
LG0100: (T0507) mandatory...  
LG0100: (T0507) mandatory...

### List

Filter the list...

ERR\_SPEDGE]  
ERR\_WRONG\_USAGE]  
  
Error ( 3, 2)  
Error ( 3, 8)  
Error ( 5, 2)  
Error ( 5, 4)  
Error ( 5, 5)  
Error ( 5, 6)  
Error ( 5, 9)  
Error ( 5,10)  
Error ( 6, 2)  
Error ( 6, 4)  
Error ( 6, 6)  
Error ( 6, 7)  
Error ( 6, 8)  
Error ( 6, 9)  
Error ( 6,10)  
Error ( 6,11)  
Error ( 6,13)  
Error ( 6,15)

### ERROR

#### EXAMPLE

Error ( 5, 5)

Error ( 5, 5) in object FE0000001987 (class HULKES) at hex offset 00001663: Inadmissible attribute in object: CONDTN.

#### DESCRIPTION

HO TO CORRECT:  
Any incorrect object/attribute value combination that has a detrimental affect on the product.

#### Impact\_Assess...

Variable impact depending on attribute, object and navigational importance of the actual object.

#### User\_impact

Variable, depending on the attribute in question. If the attribute is illegal or unreadable this may affect the ECDIS display / interrogation of the object.

#### Ref

UOC 4.6.8

#### Cross\_ref

VS57\_ERR\_RECFAIL

#### Object\_Grouping

Attribution - all objects

#### Last\_Updated

### source

TRANSAS ECDIS

### TYPE

HO MUST CORRECT / HO SHOULD C

### Error\_explanat...

An apparently invalid attribute has been

### DESCRIPTION...

HO MUST CORRECT:  
Any incorrect object/attribute value combination that may lead to a potentia dangerous situation. E.g unreadable DF

### Validator\_Notes

The original classification was FAIL / ERRONEOUS  
  
SEE EDBCF\_08\_124.  
  
When reviewing this error, look at the re object in the ECDIS to confirm that the

### Required\_action

If this error has been reported genuinely attribution of the object should be amen conform to the S-57 Standard. When assessing the error remember that there be other software test errors (both Dkral Analyzer) that refer more specifically to same problem. If so, use these other er

### Cross\_referenc...

### c\_list

### DESCRIPTION

HO TO CORRECT:  
If the encoded object class does not exist in S57 Appendix A (Object Catalogue) Chapter 1 or its use is not permitted in S57 Appendix B.1 (ENC Product Specification)

### DESCRIPTION...

HO MUST CORRECT:  
If the encoded object class does not exist in S57 Appendix A (Object Catalogue) Chapter 1 or its use is not permitted in S57 Appendix B.1 (ENC Product Specification)

### Impact\_Assess...

ERRONEOUS:  
If the encoded object class does exist in S57 Appendix A (Object Catalogue) Chapter 1 and its use is permitted in S57 Appendix B.1 (ENC Product Specification)

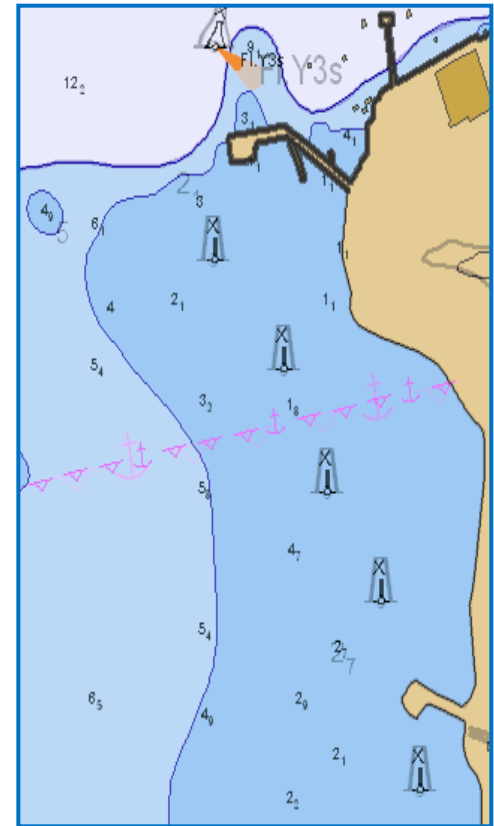
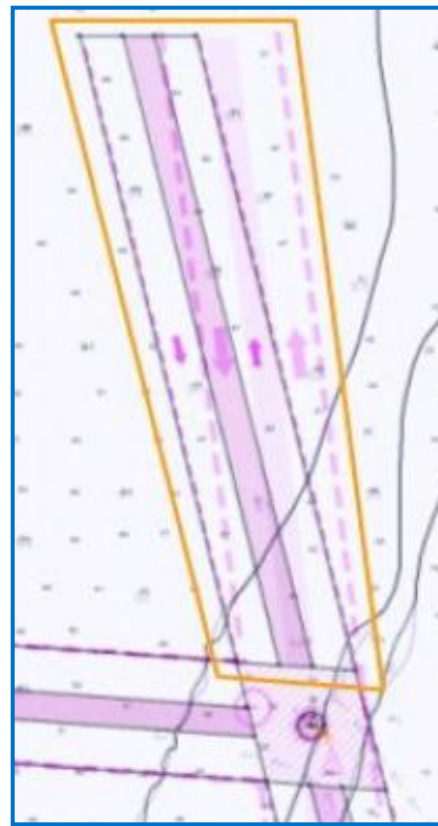
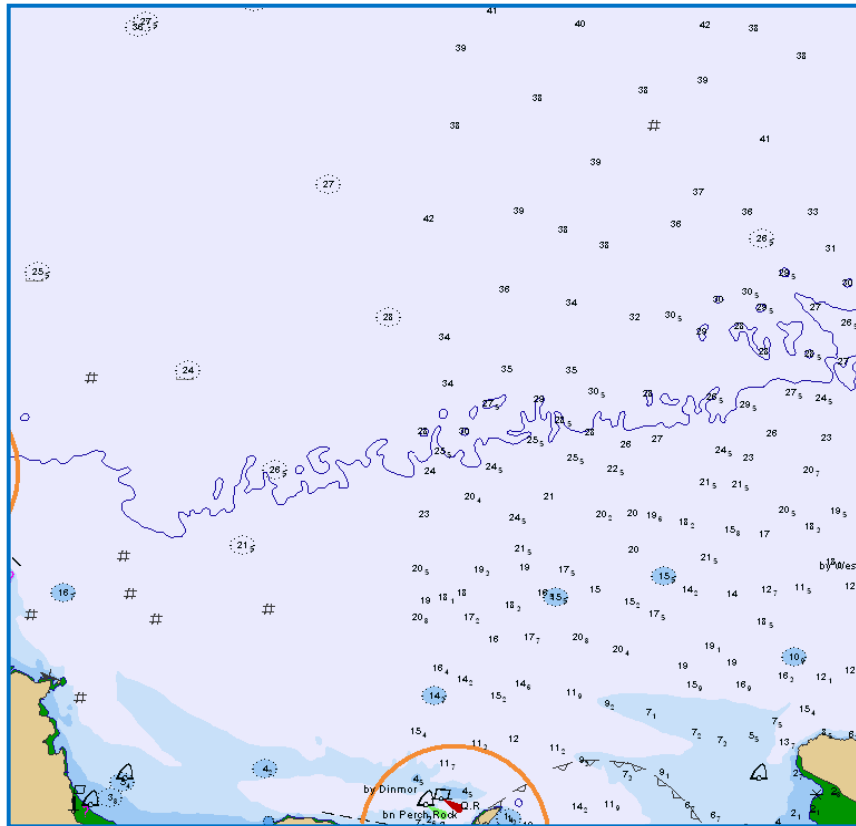
# Module: ECDIS

ic-enc



# Module: Data consistency

ic-enc





# February 2015 course delegates



Spain, Slovenia, Portugal, **Mexico**, Italy, Belgium,  
Romania, South Africa, Netherlands, Russia, Egypt

# Summary of IC-ENC ENC Validation Training course

- ▶ Provides the trainees with the **knowledge and skills required to carry out ENC validation** at their ENC production offices
- ▶ Builds **strong working relationships** between HO production office and IC-ENC Data Quality team
- ▶ Builds strong working relationships **between the trainees!**

# ic-enc