



# Inland ENC Harmonization Group

7 - 9 October 2014  
Berlin, Germany

# Welcome, introduction, organization

***Many thanks to Wieland and Birgitta for the organization of the meeting!***

Organizational details: please copy your presentations to the USB-stick

# Time schedule

## Tuesday, 7 October

- 09:00 - 11:00 morning session
- 11:00 - 11:20 coffee break
- 11:20 - 13:00 midday session
- 13:00 - 14:00 lunch break
- 14:00 - 15:30 afternoon session
- 15:30 - 15:50 coffee break
- 15:50 - 17:00 continuation of afternoon session
  
- 18:00 guided walk through the city

# Time schedule

## Wednesday, 8 October

- 09:00 - 11:00 morning session
- 11:00 - 11:20 coffee break
- 11:20 - 13:00 midday session
- 13:00 - 14:00 lunch break
- 14:00 - 15:30 afternoon session
- 15:30 - 15:50 coffee break
- 15:50 - 17:30 continuation of afternoon session
  
- 18:00 dinner

# Time schedule

## Thursday, 9 October

- 09:00 - 11:00 morning session
- 11:00 - 11:20 coffee break
- 11:20 - 13:00 midday session and end of meeting
- 13:00 - 14:00 lunch
- 14:00 - 17:00 further work on the S-101 Alignment and work of Core group on the conclusions of the meeting

# Agenda

1. Welcome, introduction of participants, organizational details
2. Inland ENC and IEHG: status of implementations in the regions
3. Inland waterways, navigation and cartography of new participants
4. Inland ENC applications
5. Working methods of IEHG
6. Core Group, election of chairs, amendment of ToR
7. Annual report to HSSC
8. S-99, S-100, S-101 and future alignment
9. S-57 to S-100 converter development
10. Updates to the Encoding Guide and Product Spec
11. Update intervals and processes
12. Portrayal domain and specification for Inland ENCs
13. Quality standards for Inland ENCs
14. Flow Velocity Information of River Systems
15. Use of USAGE and SCAMIN in Inland ENCs
16. Information document on Inland ENCs
17. Future operation of ienc website and discussion forum
18. Any other business
19. Next meeting

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# Inland ENCs and the Inland ENC Harmonization Group (IEHG)

## Inland ENCs

Update on the legal and organizational background and the status of implementation

USA

Europe

Brazil

China

- **Planned** (names of waterways & no. of km)
- **Completed** (names of waterways & no. of km)
- **Available** (e.g., from website)

Overview



# Inland ENC applications

7 Cs

ESRI

Jeppesen

Periskal

Tresco

# Election of the Core Group



By simple majority vote, chairpersons, vice-chairs and technical coordinators are elected.

- Chair – Two persons (co-chairs) each from a different region. Only representatives of waterway authorities can become chairpersons.
- One vice-chair from each region, which is not already a chair.
- Technical Coordinators - One technical coordinator for each region.
- Core Group – The two Chairs, the vice-chairs and Technical Coordinators.

# Election of chairs



Chair – Two persons (co-chairs) each from a different region. Only representatives of waterway authorities can become chairpersons.



One vice-chair from each region, which is not already a chair

Current co-chairs:

Denise LaDue (USACE, North America)

Bernd Birkhuber (MoT of Austria, Europe)

Current vice-chairs:

Flavia Mandarino (DHN, South America)

Weijun Fei (WTI, Asia)

Proposals for the coming period?

# Election of technical coordinators



Technical Coordinators - One technical coordinator for each region

Current technical coordinators:

Lee Alexander (UNH CCOM, North America)

Pieta Kluytenaar (Serendipity, Europe)

[Vladimir Sekachev] (Russia)

Angel Terry (Jeppessen, South America)

Yong Baek (KHOA, Asia)

Proposals for the coming period?

# Election of representatives for S-100

- IEHG has to nominate representatives for the Domain Control Body and the Executive Control Body of the S-100 registry
- Current representatives:  
Denise LaDue and Pieta Kluytenaar
- Proposals for the coming period?

# Adopted documents (since last meeting)

Inland ENC Encoding Guide, edition 2.3.6

Recommended Validation Checks for Inland ENCs, edition 2.3 corr 1






# Change Requests since the last meeting

CR collected since the last meeting

Corrections

Overview Change Requests 2013

# Update intervals and processes

-  An update of the EG can be adopted by IEHG within 6 weeks
-  Adopted updates may be used in a region (depending on regional regulations), but a new edition of the EG, FC and Product Specification is only published after a decision of the IEHG meeting (procedure adopted by IEHG in 2009)
-  Ed. 2.3 has been published by IEHG in spring 2011
-  When should the next edition be published?  
(Do we wait for the edition which is in line with S-101 or do we need an intermediate update?)
-  Time schedule for the next edition?



# Quality standards for Inland ENC



Recommended validation checks for IENCs

2.3 corr2



minimum content of Inland ENC

xls






**Action point:** the South American countries are invited to investigate whether a different definition of minimum content is necessary for the Amazon river basin and to submit a proposal (if necessary).






accuracy information in Inland ENC  
developments for S-101 (next slide)

?




# S-99, S-100, S-101 and future alignment

-  S-100 has entered into force on 1st January 2010
-  The final draft of S-101 is available since 2014
-  Copied feature classes and attributes have to be replaced and are already marked as “retired” in the register
-  The additional attributes and enumerations have to be registered
-  The FC, the EG and the Product Specification have to be updated (completely new edition in line with S-101)

# Product Specification Identifier

-  HSSC 5 decided to assign blocks of S-numbers to partner organizations
-  IHB will implement a registration procedure for Product Specification Identifiers and inform the organizations
-  The future Product Specification for Inland ENC's could become e.g. S-201, but we have to wait for the information from IHB

# S-99, S-100, S-101 and future alignment

-  The CoRISMa project on RIS enabled corridor management is providing funds for the alignment with S-101
-  CoRISMa is developing proposals for the alignment, but the decisions have to be made by IEHG
-  The documents that are developed by CoRISMa are posted on the IENC discussion forum and every member of IEHG is invited to contribute to the discussions

alignment

# S-100 Feature Catalogue Builder



IHO is developing a S-100 Feature Catalogue Builder



It is intended to use it for the production of an Inland ENC FC

Status?

# S-57 to S-100 converter development



IHO has developed a converter from S-57 to S-100



**Action point:** all members of IEHG are invited to perform tests with the converter and their Inland ENC's and to deliver feedback to Tom De Puyt.

# Portrayal domain and specification






- At the 2010 meeting IEHG agreed to establish a Portrayal Domain for Inland ENC's in the S-100 Registry
- This is necessary to ensure that applications on maritime vessels are able to display Inland ENC specific objects
- Status of implementation of the HYDRO portrayal domain?
- Who is able to develop the IENC portrayal domain?

S-100 Part 9

Wieland

Screenshot 4000 m

# Quality information in S-101

-  UKHO made a user survey, big majority would prefer dynamic colour overlay (red – amber – green)
-  Overall quality should be based on a lot of factors including temporal degradation of data quality and vessel requirements
-  The user should have the possibility to drill down to the individual factors
-  UKHO and University of Southern Mississippi should present proposal before July 2013
-  Status?



# Use of USAGE and SCAMIN




Evaluation of the use of USAGE and SCAMIN in Inland ENC's

information

# Flow Velocity Information of River Systems

Rolf Zentgraf

# Annual report to HSSC

-  Annual report to the Hydrographic Services and Standards Committee (HSSC) of the International Hydrographic Organization (IHO) about IEHG

Report 2014

# Information document on Inland ENC's

- IEHG has developed a document that provides information on Inland ENC's and the relation and the differences to maritime ENC's
  - The first edition has been accepted at the last IEHG meeting
  - The document can be used by every member of IEHG for presentations, discussions, explanations
  - Comments?
  - Amendments?
- Action point:** All members of IEHG are invited to submit proposals for amendments of the information document on Inland ENC's (Inland ENC.ppt on [ienc.openecdis.org](http://ienc.openecdis.org)).
- Article for HYDRO International

information

# Operation of Web Services

## Future operation of



**ienc.openecdis.org website**  
now hosted by Periskal on behalf of EC

<http://ienc.openecdis.org>



**Discussion forum**










<http://operations.usace.army.mil/nav/IEHG/start.cfm?Option=Login>








**IENC domain in the registry of IHO**

<http://registry.iho.int>

# Any other business, Next Meeting

-  Update CR and list of CR (Bernd)
-  Update EG (Denise)
-  Correction Recommended validation checks (Bernd)
-  Investigate Portrayal Register (Eivind)
-  Report to HSSC (Co chairs and Lee)
-  Inland ENC ppt (Bernd, Lee, input from everybody)
-  Article for HYDRO Int. (Lee)
-  Proposal for symbols (Bernd: European symbols, everybody: react and amend)
-  Keep track of S-101 developments and the consequences for IENCs (Cameron, European Corridor management project)

# Any other business, Next Meeting

-  How to encourage other countries to join IEHG?  
South America / Asia
-  Any other business?
-  Next meeting of IEHG: where and when ?  
Asia?
-  Changes to the agenda of next meeting?
-  Departures

Thank you, Wieland, for the organization!  
Thank you all for participation!