

**13th Annual Meeting**

**October 13th – 15th 2015**

**Nanjing, China**

**Inland ENC Harmonization Group**

**13th Annual Meeting**

**October 13th – 15th 2015**

**Location:**

**Nanjing, Peoples Republic of China**

[**Nanjing Shuang Men Lou Hotel**](http://www.shuangmenlouhotel.com/)

Local contact: Ms. Zhang Hua  
 China Waterborne Transport Research Institute

Tel: 86 10 65290237

Fax: 86 10 62011659

Email: [zhang@wti.ac.cn](mailto:zhang@wti.ac.cn)

**Draft Agenda of the IEHG meeting**

1. Welcome, Introductions of Participants, organizational details Weijun Fei  
    Bernd Birklhuber, all

1. [Presentation on Inland ENCs and IEHG](http://ienc.openecdis.org/?q=content/iehg) – Overview Bernd Birklhuber  
   [only if new countries participating]   
     
   Update on the legal and organizational background   
   and the status of implementation in  
   Brazil Flavia Mandarino  
   China Weijun Fei  
   Europe Bernd Birklhuber  
   U.S. Denise LaDue
2. [Presentations by the new participants about their   
   river/inland waterway network, navigation and cartography:   
   ?] ?
3. Presentation of Inland ENC applications by private companies  
      
   Caris Cameron McLeay?  
   ESRI Tom DePuyt?  
   IIC Technologies Inc. John Conyon?  
   Laurel Technologies Company Han Bin  
   SuperMap Co Ltd. Lin Lin?  
   Tinnos Inc. Gigab Ha?

1. [Working methods of IEHG](http://ienc.openecdis.org/files/ToR_for_IEHG_2011.pdf) Bernd Birklhuber
2. Election of the Core Group of IEHG all  
     
   Election of the chairs all  
     
   Amendment of the [Terms of Reference](http://ienc.openecdis.org/files/ToR_for_IEHG_2011.pdf)  
   [only if new countries participating] Bernd Birklhuber  
   Election of the representatives of IEHG in the Domain Control Body   
   and the Executive Control Body of S-100 all  
     
   Update of the Introduction of the Encoding Guide for Inland ENCs  
   [only if new countries participating] Bernd Birklhuber
3. **Updates to the** [**Encoding Guide**](http://ienc.openecdis.org/files/IENC_EG_2_4_0.pdf) **and** [**Product Spec**](http://ienc.openecdis.org/?q=content/ienc-product-specification-24) all  
     
   Questions and Change Requests regarding Inland ENCs for  
   the inland waterways of China

Other [Change Requests](http://operations.usace.army.mil/nav/IEHG/start.cfm?Option=Login)

1. [bathymetric Inland ENCs](http://ienc.openecdis.org/?q=content/bathymetric-inland-enc-product-specification) Bernd Birklhuber
2. Update intervals and processes all
3. Proposals for quality standards for Inland ENCs  
     
   recommended validation checks for Inland ENCs (based on S-58) Wieland Haupt  
     
   [minimum content of Inland ENCs](http://ienc.openecdis.org/files/IENC_min_content_v2_4.xls) Bernd Birklhuber  
     
   accuracy information in Inland ENCs ?  
   development for S-101?
4. Status of development of S-99, S-100 and S-101 Denise LaDue?
5. Alignment of the Inland ENC Product Specification with S-101 Bernd Birklhuber  
   (S-401)  
     
   Definition of “official Inland ENC” producer codes   
     
   Portrayal domain and specification for Inland ENCs all

1. S-57 to S-100 converter development ?
2. Use of USAGE and SCAMIN in Inland ENCs? ?
3. Annual Report to HSSC about IEHG Denise LaDue
4. Updates of the [Information documents on Inland ENCs](http://ienc.openecdis.org/files/Inland_ENC.ppt) Bernd Birklhuber  
   (Inland ENC.doc and Inland ENC.ppt)   
     
   Article for HYDRO International ?
5. Future operation of:  
     
   the [ienc.openecdis.org](http://ienc.openecdis.org) website Bernd Birklhuber  
     
   [discussion forum for Inland ENCs](http://operations.usace.army.mil/nav/IEHG/start.cfm?Option=Login) Denise LaDue  
      
   [IENC Register](https://registry.iho.int/FeatureConceptDics/fcd_home.php?register_type=1) (as part of S-100 Registry) Denise LaDue
6. Any other business all

- How to encourage more countries/regions to join IEHG

- South America

- East Asia

1. Next meeting – Date and Location

**Preliminary time schedule:**

**Tuesday, October 13th and Wednesday, October 14th 2015**

09:00 - 10:30      morning session

10:30 - 10:50      coffee break

10:50 - 12:00      midday session

12:00 - 13:00      lunch break

13:00 - 14:30      afternoon session

14:30 - 15:00      coffee break

15:00 - 16:30      continuation of afternoon session

**Thursday, October 15th 2015**

09:00 - 10:30      morning session

10:30 - 10:50      coffee break

10:50 - 12:00      midday session and end of meeting

12:00 - 13:00      lunch

13:00 - 16:00      further work on the S-101 Alignment and work of Core group on the conclusions of the meeting

**Annex**

**Agenda points 1 to 5** should provide an introduction to the work of the Inland ENC Harmonization Group (IEHG) for new participants and provide the possibility for new participants to inform the group about their river/inland waterway network, navigation and cartography. The individual presentations should have a maximum length of 20 minutes.  
If there are no new countries participating the agenda points will only deal with updates regarding the status of implementation and the IENC applications.

**Open Action Items from last meeting:**

- Please provide an email to Bernd containing updates to the information on Inland ENC coverage.

- The IEHG website contains a list of both National Organizations and Private Companies involved with IENCs. If not listed, please provide web address to Bernd for inclusion on the website.

**Ad Agenda point 6**

**Election of chairs**

According to the Terms of Reference of IEHG the group is electing chairpersons, vice-chairs and technical coordinators by simple majority vote. The Core Group consists of

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

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

3) Technical Coordinators - One technical coordinator for each region.

Currently the Chairs are Denise LaDue (North America) and Bernd Birklhuber (Europe), the Vice Chairs are Flavia Mandarino (South America) and Fei Weijun (Asia).

The technical coordinators are Brian Tetreault (North America), Yong Baek (Asia), Pieta Kluytenaar (Europe), and Angel Terry (South America).

The meeting should confirm the current Core Group members or elect new members. Each region can elect its technical coordinator and its candidate for chair/vice chair. The whole group is electing the two chairs from the group of the candidates.

**Amendment of the Terms of Reference**

There might be requests for amendments of the Terms of Reference of IEHG (available at <http://ienc.openecdis.org/?q=content/iehg>)

**Election of the representatives of IEHG in the Domain Control Body   
and the Executive Control Body of S-100**

IEHG is the owner of the Inland ENC domain in the S-100 registry and has to nominate representatives for the Domain Control Body and the Executive Control Body of S-100 in accordance with S-99. Currently Denise LaDue and Pieta Kluytenaar are the representatives. IEHG should confirm the current representatives or elect new representatives.

**Update of the Introduction of the Encoding Guide for Inland ENCs**

The Introduction section of the Encoding Guide for Inland ENCs is containing a short history of IEHG. It should be updated if new countries have joined IEHG.

**Ad Agenda point 7**

**Updates to the Encoding Guide and Product Specification**

Change Requests for the Encoding Guide or the Product Specification should be transmitted at least six weeks before the meeting (i.e. before 31th August 2015). If everybody agrees with the Change Requests they are adopted before the meeting. If there are objections, the Change Requests can be discussed at the meeting. The meeting will try to find solutions for those CRs. The proposals of the meeting will be distributed via the discussion forum and will be adopted within a period of six weeks after the meeting.

It is intended to give special attention to problems arising from special features on the Chinese inland waterways.

**Ad Agenda point 8**

**Bathymetric Inland ENCs**

The European side has developed a Product Specification for bathymetric Inland ENCs within a Research and Development project of the European Union. Bathymetric Inland ENCs provide the possibility to produce updates of depth information in Inland ENCs from the survey data in a very efficient and fast way. The Product Specification will be presented and IEHG could decide to make it available for other regions, too.

**Ad Agenda point 9**

**Update intervals and processes**

The procedure for the adoption of Change Requests is defined in the Terms of Reference of IEHG (available at <http://ienc.openecdis.org/?q=content/iehg>).

If IEHG decides to publish a new edition of the Product Specification and the Encoding Guide, or a new version of the Encoding Guide only, it might discuss the time schedule for the publication and the implementation and use of the new edition/version.

**Ad Agenda point 9**

**Proposals for quality standards for Inland ENCs**

* **Recommended validation checks for Inland ENCs** (based on S-58)  
  IEHG has developed and adopted “Recommended Validation Checks for Inland ENCs, edition 1.1” which are based on S-58 and edition 2.1 of the Product Specification for Inland ENCs.   
  IEHG has also developed and adopted “Recommended Validation Checks for Inland ENCs, edition 2.3” which are based on S-58 and edition 2.3 of the Product Specification for Inland ENCs.   
  The draft of an edition 2.4 of the Recommended Validation Checks will be presented.
* **Minimum content of Inland ENCs and Minimum accuracy requirements**  
  The minimum content of an Inland ENC is specified in the Introduction of the Encoding Guide for Inland ENCs. Experience has shown that this rather abstract definition is not sufficient if an authority contracts a private chart producer for the production of official Inland ENCs. A European task force has developed a proposal for a more detailed specification of the minimum content and an Excel sheet which is also containing minimum accuracy requirements and update requirements. This Excel sheet is used as a recommendation in Europe. USACE is working on the implementation of this overview in the database which is also used for the production of the Feature Catalogue and the Encoding Guide for Inland ENCs.
* Accuracy information in Inland ENCs  
  At the 9th meeting IEHG came to the conclusion that it is quite difficult for the user to find the information on the accuracy of different objects in the Inland ENC. IEHG might discuss how to improve the information.  
  IHO is also discussing the same topic. IEHG might discuss the results of IHO.

**Ad Agenda point 10**

**Status of development of S-99, S-100 and S-101**

The meeting could be informed about the status of the development of S-99, S-100 and S-101 within IHO.

**Ad Agenda point 11**

**Alignment of Inland ENC Product Specification with S-101 (S-401)**

IEHG has already decided to align the Product Specification for Inland ENCs with S-101 and IHO has reserved the code S-401 for this future Product Specification.

The European project River Information Services Corridor Management (CoRISMa) is currently drafting the first proposals and will present the documents.

S-101 is containing detailed descriptions how applications have to distinguish ENCs from Hydrographic Offices and ENCs from other chart producers. The applications can use the producer codes to recognize official ENCs. In inland navigation the official Inland ENCs are often not produced by Hydrographic Offices, but by other authorities. The producer codes of these authorities are registered in the same list of the S-100 registry as the producer codes of private companies. An automatic recognition of “official Inland ENCs” is therefore not possible. It should be discussed whether IEHG should apply for a special registration of official chart producers.

**Open Action Items from last meeting:**

- CoRISMa to develop a draft of the S-401 Product Specification for Inland ENCs for IEHG 2015

- To accommodate IEHG, additional values will need to be added to lookup tables. Question for TSMAD – TOPMAR needs additional sub-attributes COLPAT and COLOUR as a list field for inclusion as a complex attribute; is it possible?

**Ad Agenda point 12**

**S-57 to S-100 converter development**

IEHG has been informed about the development of a converter for S-57 datasets to S-101 for test purposes. The information might be updated.

**Ad Agenda point 13  
Portrayal domain and specification for Inland ENCs**

Up to now IEHG has only dealt with the harmonization of Inland ENCs. There were different standards for the display of these charts in the various regions (e.g. the “Inland ECDIS standard” in Europe), because inland vessels do not travel from one region to another.

At the 8th meeting IEHG decided to set up an Inland portrayal domain within the S-100 registry, because one of the goals of IEHG is to ensure that maritime vessels are able to use Inland ENCs when they are using inland waterways. The development of this new domain has to be based on the portrayal domain for maritime ENCs, which was still under development last year.

**Ad Agenda point 14**

**Use of USAGE and SCAMIN in Inland ENCs**

Pieta Kluytenaar has presented some problems and ideas regarding the use of USAGE and SCAMIN in Inland ENCs at the meeting of IEHG in 2010. There might be new developments which should be discussed with a view to possible amendments of the Encoding Guide for Inland ENCs.

**Ad Agenda point 15**

**Annual Report to HSSC about IEHG**

IEHG is recognized as a NGO with observer status by IHO and is therefore presenting a report on the status of Inland ENC standardization and implementation each year to HSSC.

**Ad Agenda point 16**

**Updates of the Information documents on Inland ENCs (Inland ENC.doc and Inland ENC.ppt)**

IEHG has agreed on an information document (Inland ENC.ppt, available at <http://ienc.openecdis.org/?q=content/iehg>) on Inland ENCs and the Inland ENC Harmonization Group (IEHG). It was proposed to develop also a text document. The meeting might discuss amendments of the information documents to take the latest developments into account.

**Open Action point from last meeting:** All members of IEHG are invited to submit proposals for amendments of the information document on Inland ENCs (Inland ENC.ppt on the IEHG website).

**Ad Agenda point 17**

**Future operation of the ienc.openecdis.org website**

The website of IEHG has been hosted by the PLATINA project of the European Union and is hosted by the PLATINA 2 project from autumn 2013 onward. The meeting might discuss the latest developments and possible improvements of the content of the website.

**Future operation of the discussion forum for Inland ENCs**

The discussion forum is currently hosted by the USACE. The meeting might discuss possible improvements in the discussion forum.

**Future operation of the IENC Domain (as part of S-100 Registry)**

IEHG has set up an Inland ENC domain in the supplementary register of the S-100 Registry (see <https://registry.iho.int/FeatureConceptDics/fcd_home.php?register_type=1>). The meeting might discuss possible improvements.