

Status of Inland ENCs in Europe

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Inland ENCs and Inland ECDIS in Europe

- IEHG is currently only dealing with the standardization of Inland ENCs
- The European countries have also developed a common standard for chart viewers
- The standard is based on the maritime S-52 standard for Electronic Chart Display and Information Systems (ECDIS)
- The European “Inland ECDIS standard” contains the Product Specification for Inland ENCs and the Performance Standard and test procedures for Inland ECDIS applications

Legal Status of Inland ENCs in Europe

Inland ECDIS Standard Edition 2.0

- Adopted as mandatory regulation for the river Rhine by the Central Commission for Navigation on the Rhine (CCNR) in 2006, all amendments of the EG until version 1.2.2 have been adopted, too
- Adopted as recommendation for all inland waterways by the Economic Commission for Europe of the United Nations (UNECE) in 2007.
- Adopted as recommendation for the river Danube by the Danube Commission in 2008.
- The European Union planned to publish a binding regulation, but had internal problems (missing human resources)

Legal Status of Inland ENCs in Europe

Inland ECDIS Standard Edition 2.3 (latest edition)

- The Central Commission for Navigation on the Rhine (CCNR) plans to publish this edition before the end of the year.
- The Economic Commission for Europe of the United Nations (UNECE) plans to publish this edition before the end of the year.
- The Danube Commission recommends to use always the latest version which is published by UNECE.
- The European Union has announced to publish this version as a binding Commission Regulation; IENCs have to be produced within 30 months after the publication for all inland waterways of the European Union of class Va and above (suited for vessels/convoys with a length of more than 85 m).

Country	class	coverage	published	available for free	used version of standard
Austria	Va +	full	yes	www.doris.bmvit.gv.at	2.1
Belgium (Flanders)	Va +	full	yes (with exception of sea harbours)	ris.vlaanderen.be www.vts-scheldt.net	2.0
Bulgaria	Va +	full	planned	www.apcd-bg.org	1.02
Switzerland	Va +	full (Rhine)	yes	www.portofbasel.ch	2.0
Czech Rep.	IV	full	yes	www.lavdis.cz	1.02, 2.0 in 2011
Germany	Va +	3000/4000 km	yes	www.elwis.de free webviewer	1.02, 2.0 and 2.1 (Main, MDK, Danube)
France	Va +	30 km Garonne		www.vnf.fr	1.02
Croatia	IV +	full	yes	www.crup.hr	1.02 and 2.0, 2.1 in preparation
Hungary	Va +	full	Yes(edition 2007)	www.pannoris.hu	1.02, 2.0 in preparation
Luxemburg	Va +		yes	no	1.02
Netherlands	IV +	almost full	yes	www.risserver.nl	2.0
Poland	Va +	full in 2011	planned	Not decided yet	2.1
Romania	Va +	Full (Black sea canal in near future)	yes	www.afdj.ro/not free for Black Sea Canal	1.02
Serbia	Va +	full	yes	www.plovcut.co.yu	1.02
Slovakia	Va +	full	Under disc.	yes	1.02
Ukraine	Va +	full	yes	no	1.02

Implementation of Inland ENCs in Europe

- More than 11,000 vessels equipped with Inland ENCs (6,000 commercial vessels).
- Two mode of operation:
 - Navigation
 - Information
- Three certified applications for ‘navigation mode’ (with radar overlay, > 818 in use).
- All applications are compatible with edition 2.0.
- Adaptation to edition 2.1 partly done, partly in preparation, chart production tools for 2.1 are available.
Questions?

More Information at: <http://www.ris.eu>

ВНУТРЕННИЕ ВОДНЫЕ ПУТИ РОССИЙСКОЙ ФЕДЕРАЦИИ



According to Federal Task Program on implementation of GLONASS on transport, 26,000 km of inland waterways were surveyed, equipped and covered with Inland ENCs.



Survey data



Geodetic/Topo/Space data



Inland paper charts data

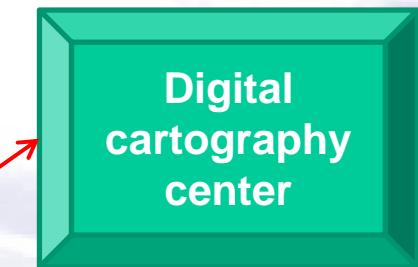


Descriptive data

Digital DB

Inland ENC creation\update

Inland ENC validation



Digital
cartography
center



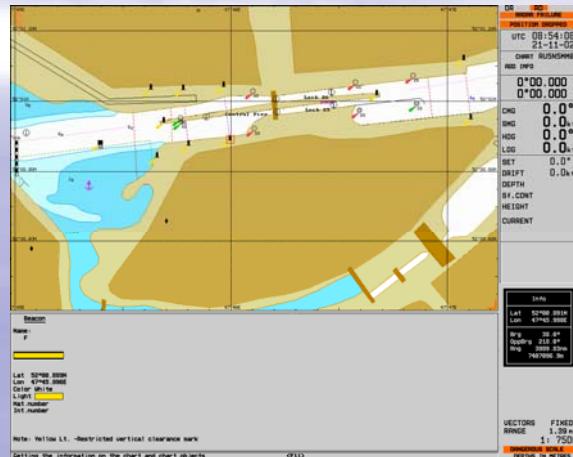
Inland ENC



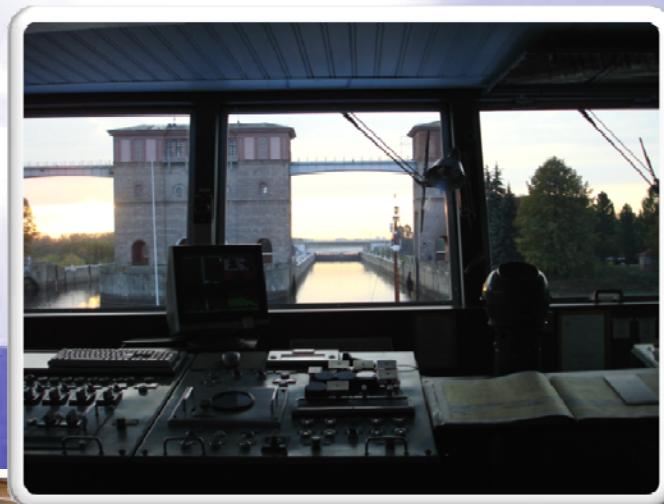
Inland ENC trial



Inland ENC validation



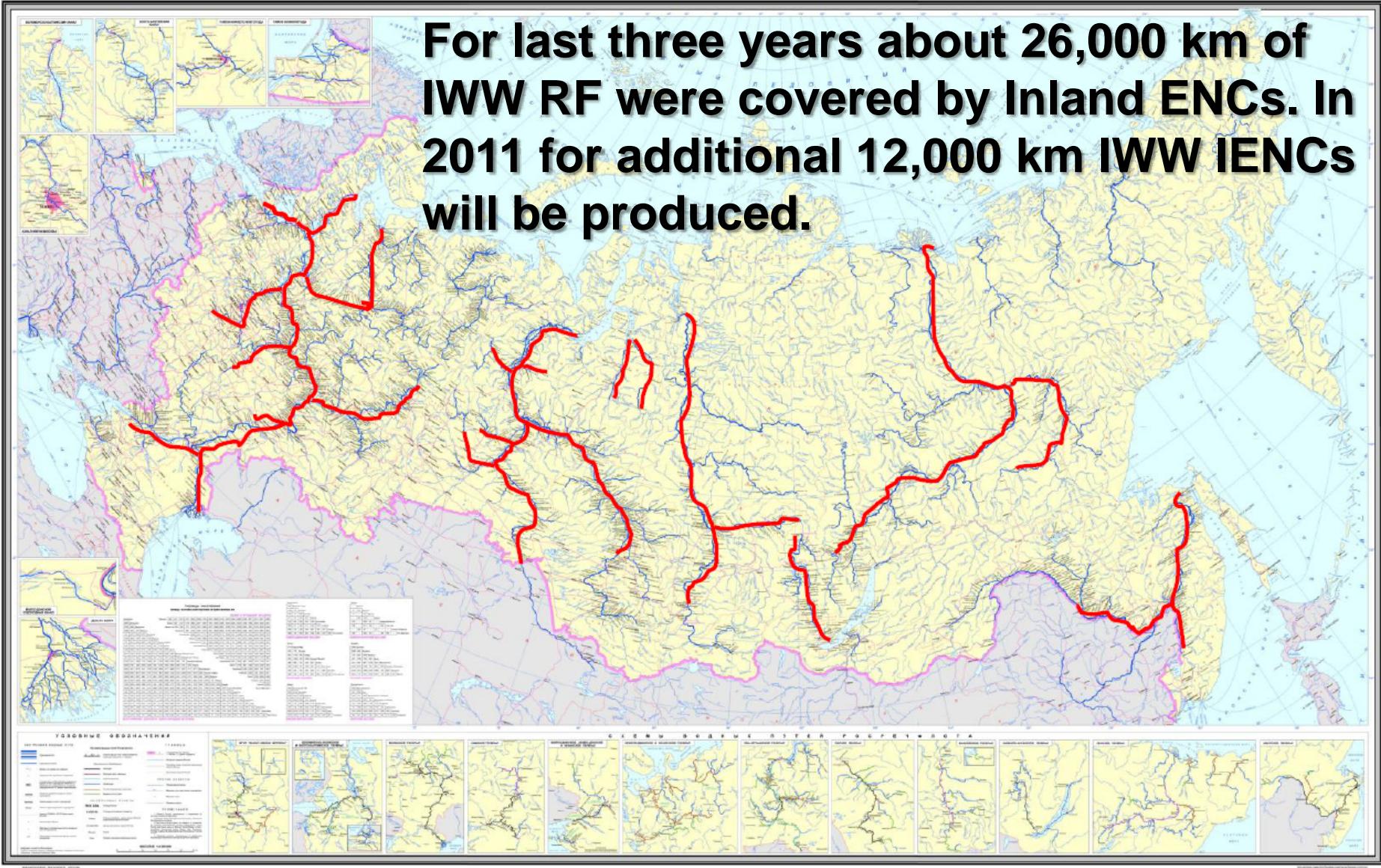
Inland ENC trial



Inland ENC distribution



For last three years about 26,000 km of IWW RF were covered by Inland ENCs. In 2011 for additional 12,000 km IWW IENCs will be produced.



Do you have questions?