

**HELCOM/BSHC Harmonised
Hydrographic Re-survey Plan**

Report to the BSHC 12th Conference

By the HELCOM Monitoring Working Group

13 June 2007

Juha Korhonen



**Finnish Maritime
Administration**

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

Some Milestones:

- HELCOM Copenhagen Declaration (Sept 2001)
- BSHC developed the Harmonized Re-survey Plan (2002)
- BSHC established the Monitoring Working Group (2002)
- Sweden developed the database (2003)
- BSHC/11 Approved MWG Work Programme V.3.0 (2005)
- Sweden developed the Web-interface (2006)
- Data to be harmonized and updated (2006)
- Web pages linked to HELCOM and IHO (2006, 2007)

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

Work of MWG:

- MWG membership – some changes
- National Database operators nominated
- Web-based interface released 2006
- Re-surveys continued – database updated
- MWG Meeting on 8 March 2006
- Work Program 3.0: ~20% completed
- Work Program 4.1 proposed
- EU TEN-T Motorways of the Baltic Sea

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

MWG Members:

Country	Org.	Name
Denmark	RDANH	Cdr Lars Hansen
Denmark	RDANH	LtCdr. Jesper Vedel
Denmark	KMS	Mr. Peter Ladegaard Sørensen
Estonia	HO	Dr. Jaan Lutt
Finland	HO	Mr. Juha Korhonen
Germany	HO	Mr. Thomas Dehling
Latvia	HO	Mr. Janis Krastins
Lithuania	HO	Mr. Mindaugas Zakarauskas
Poland	HO	Capt. Wieslaw Bielinski
Poland	HO	Lt.Cdr Marek Szatan
Russia	HDNO	Capt. Yu.E. Rozhkov
Sweden	HO	Mr. Bengt-Åke Larsson

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

National Database Operators:

Country	Org.	Name
Denmark	RDANH	Cdr Lars Hansen
Denmark	RDANH	LtCdr Jesper Vedel
Denmark	KMS	Mrs. Lis Gram
Estonia	HO	Dr. Jaan Lutt
	HO	Mr. Peeter Väling
Finland	HO	Mr. Pentti Junni
		Mr. Juha Korhonen
Germany	HO	Mr. Thomas Dehling
Latvia	HO	Juris Rizovs
Latvia	HO	Janis Sverickis
Lithuania	HO	Mr. Mindaugas Zakarauskas
Poland	HO	Capt. Wieslaw Bielinski
	HO	LtCdr Marek Szatan
Russia	HDNO	Capt. Maxim Valchuk
Sweden	HO	Mr. Bengt-Åke Larsson
	HO	Ms Renée Modigh
	HO	Ms. Anna Jansson

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

Reporting of the Re-survey Plan:

- Reported to the NHC/50 April 2006
- Reported to the NSHC/8 September 2006
- Informed by IHO CL 9/2007 and a Poster at XVII Conference May 2007
- Linked to the HELCOM Web pages 2006
- Linked to a regional extension to the IHO S-55 database 2007

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

Poster at XVII Conference May 2007



Finnish Maritime Administration

Finland contributes to the co-operation with the Hydrographic Offices (and Maritime Administrations) within the Baltic Sea Hydrographic Commission (BSHC).

The example Panels highlight some results of this kind of co-operation:

1. Maritime Routing Guide Baltic Sea
2. Shipping on the Baltic Sea (SOS)
3. HELCOM BSHC Re-survey Plan
4. The Coverage on the Baltic Sea
5. Sea information services on the Baltic Sea

Finland emphasizes that this kind of co-operation is also with many of the IMO near objectives, i.e.:

- Promote the use of hydrography for the safety of navigation and all other uses for which it is suitable
- Enhance co-operation of hydrographic activities among Maritime States
- Conduct co-operation in hydrographic activities amongst States on a regional basis
- Emphasize the most important role of Regional Hydrographic Commissions

Other Co-operating Organizations:

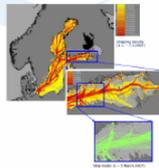


FINLAND

International Co-operation Enhances Safety of Navigation on the Baltic Sea.

28 March 2007

Shipping on the Baltic Sea



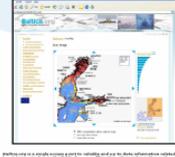
Arrived to our HELCOM member activities of routing and other information products issued to our Member States, through of Helcom Baltic Sea Hydrographic Commission.

Harmonised Hydrographic Re-survey Plan

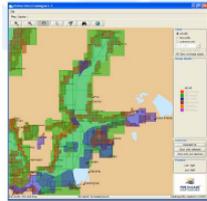


The Helsinki Commission (HELCOM) adopted a set of important measures to increase the safety of navigation on the Baltic Sea in 2001. One of these measures was to develop a harmonised re-survey plan. The Baltic Sea Hydrographic Commission (BSHC) developed the Harmonised Hydrographic Re-survey Plan in 2002. The re-surveys are going on according to this plan. The re-survey plan includes the routes to the main parts of the Baltic Sea. The re-survey database - developed by the Swedish HO - contains metadata for re-surveys.

Sea Information Services



Published in a constantly changing and rapidly updated sea information system. The system is available to all users. The system is available to all users. The system is available to all users. The system is available to all users.



This status map has an almost complete and coverage at least for the navigational purposes. These charts are distributed via Print Manager and IC-ENC.

13 June 2007

BSHC12, Raipeda 12-14 June 2007

Poster at XVII Conference May 2007

Harmonised Hydrographic Re-survey Plan



For easy review and updating a Web-based interface has been developed.



Status of re-surveys by March 2007



The Helsinki Commission (HELCOM) adopted a set of important measures to increase the safety of navigation on the Baltic Sea in 2001. One of these measures was to develop a harmonised re-survey plan. The Baltic Sea Hydrographic Commission (BSHC) developed the Harmonised Hydrographic Re-survey Plan in 2002. The re-surveys are going on according to this plan. The re-survey plan includes the routes to the main parts of the Baltic Sea. The re-survey database - developed by the Swedish HO - contains metadata for re-surveys.







13 June 2007

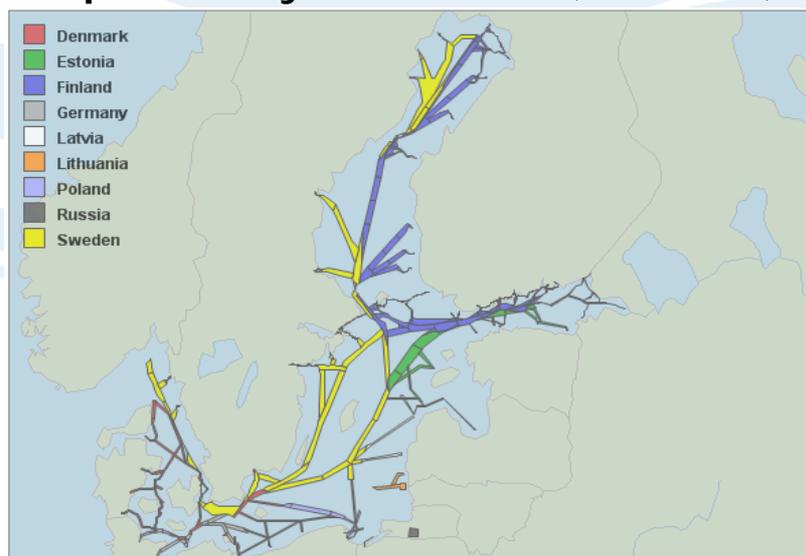
Status of Database:

- Data needs some harmonization
- Data needs to be updated
- Some clarifications to definitions needed
- Some development tasks identified

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

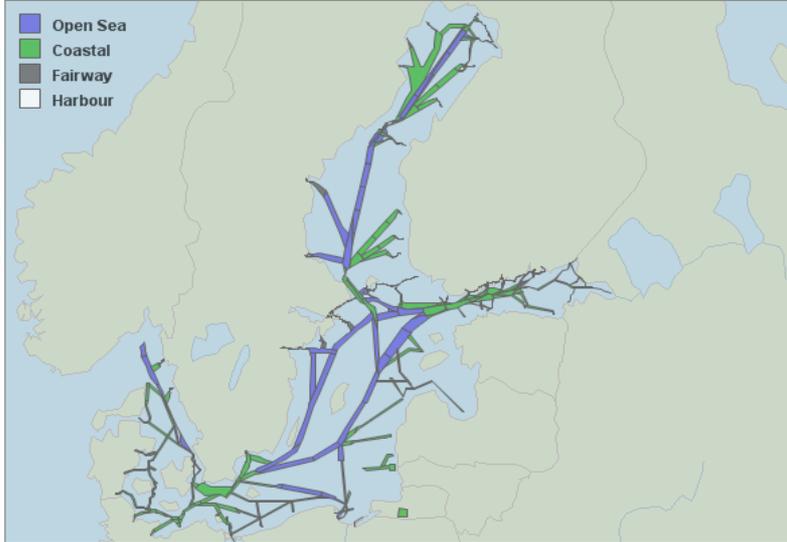
Responsibility of Sections (1 June 2007):



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

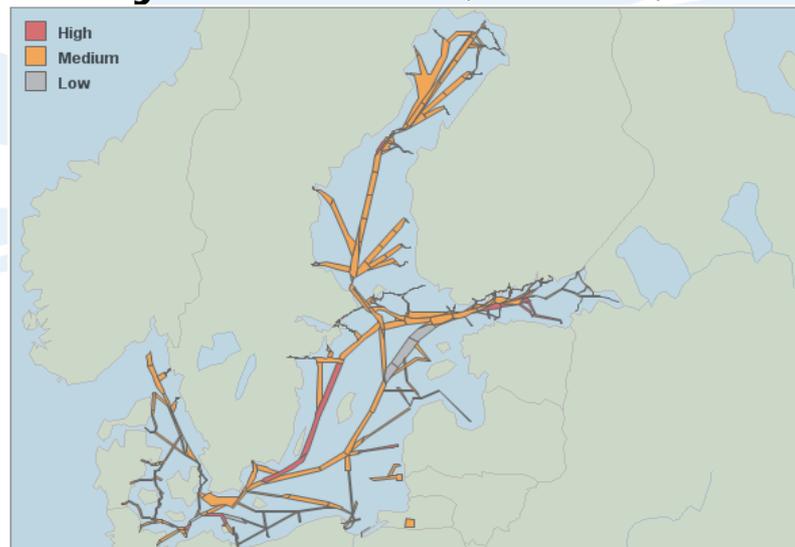
Classification of Sections (1 June 2007):



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

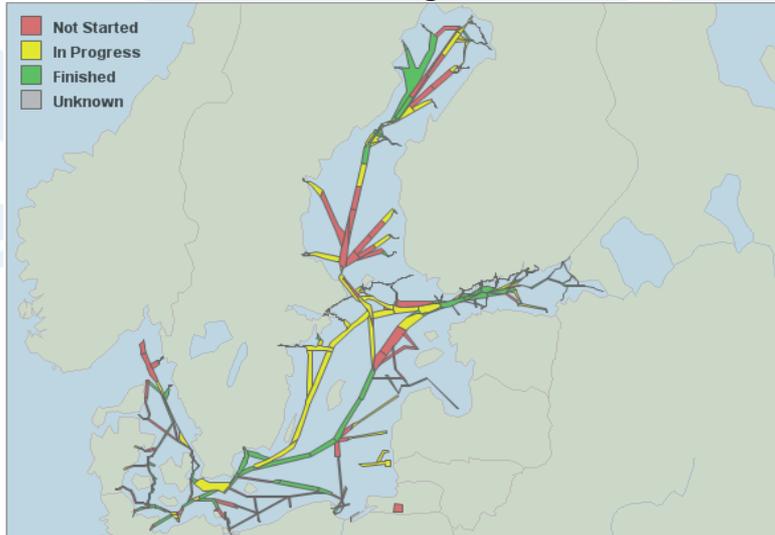
Priority of Sections (1 June 2007):



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

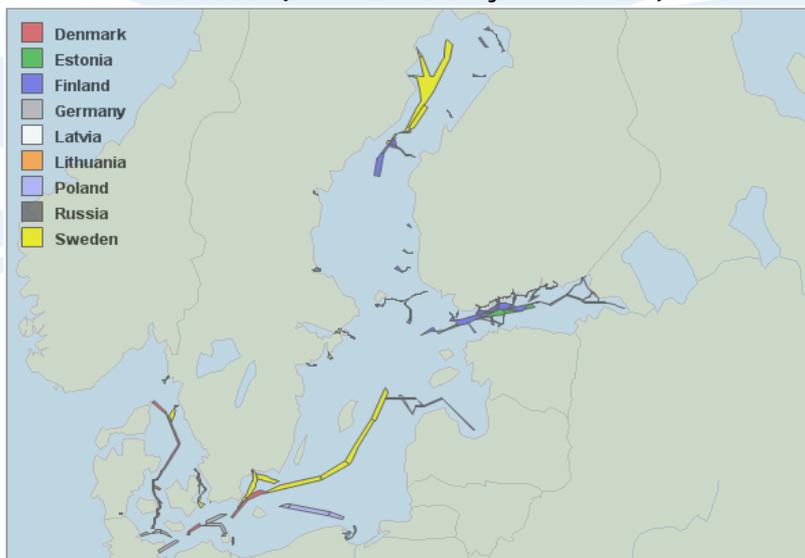
Status of Re-surveys (1 June 2007):



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

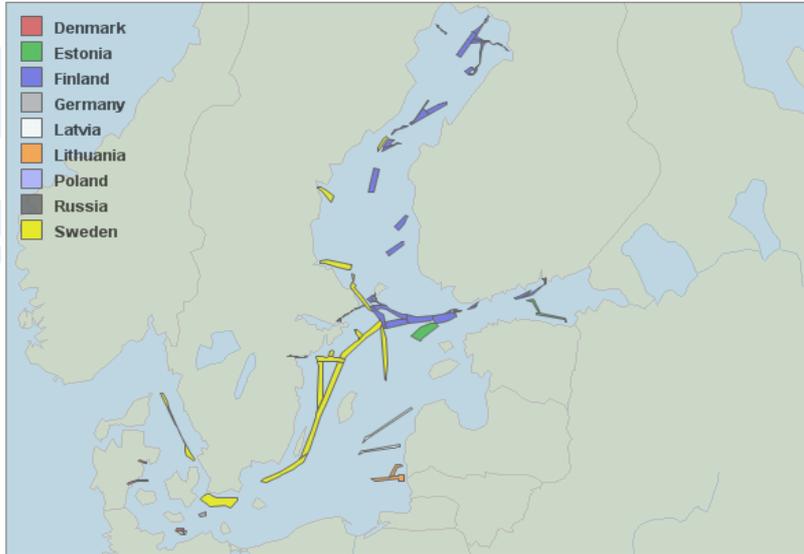
Status of Database (Finished by 1 June 2007):



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

Status of Database (**In progress** by 1 June 2007):



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

Status of Database (**Not started** by 1 June 2007):



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

Status of User Interface:

New web-interface to the Database

1. Public site

- For data browsing and extraction
- Open to all

2. Restricted site

- For updating the information
- For authorizer users only (1 – 2/country)

Updating now possible:

- **Features by each HO** (by national authorized operators)
- **Geometry by Sweden**

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

HELCOM Resurvey Site - Microsoft Internet Explorer

Tiedosto Muokkaa Näytä Suosikit Työkalut Ohje

Osoite http://helcomresurvey.sjofartsverket.se/helcomresurvey/site/FramesSetup.html

ver 1.1.d 2006-apr-04

Colour by: Status

Country Section Route

SE All All

Status Priority View

Map Download

Internet

WEB-03

[Help Page](#)

Route

Name: Western Baltic
Type: Open Sea

General Information

Country: Sweden
National Priority: M
S44 Compliance: 45 %
Status: In Progress

Resurvey Information

Remaining Work: 61 days
Remaining Area: 913,53 km²
Planned Start: 2008-10-28
Planned End: 2008-12-28
Actual Start: No Value
Actual End: No Value

ENC Coverage for new survey (%)

General: 0
Coastal: 0
Approach: 0
Harbour: Not applicable

HELCOM Resurvey Site - Microsoft Internet Explorer

Tiedosto Muokkaa Näytä Suosikit Työkalut Ohje

Osoite <http://helcomresurvey.sjofartsverket.se/helcomresurveysite/FramesSetup.html>

Colour by: Country

ver 1.1.d 2006-apr04

Country	Section	Route	Status	Priority	View
All	All	All	All	All	Map Download

Valmis Internet

Helsinki Commission

Welcome to the Public Site of the HELCOM Hydrographic Re-Survey-plan.

Performed and monitored by the memberstates of The Baltic Sea Hydrographic Commission in accordance with the Copenhagen Declaration decided in 2001.

Duplication of information presented on these pages is not allowed unless permission is obtained from the respective national authority.

This website is developed and managed by The Swedish Maritime Administration by order of the The Baltic Sea Hydrographic Commission. For more information please contact us at <http://www.sjofartsverket.se>.

HELCOM Resurvey Site - Microsoft Internet Explorer

Tiedosto Muokkaa Näytä Suosikit Työkalut Ohje

Osoite <http://helcomresurvey.sjofartsverket.se/helcomresurveysite/FramesSetup.html>

Colour by: Status

ver 1.1.d 2006-apr04

Country	Section	Route	Status	Priority	View
All	All	All	All	All	Map Download

Valmis Internet

Helsinki Commission

Welcome to the Public Site of the HELCOM Hydrographic Re-Survey-plan.

Performed and monitored by the memberstates of The Baltic Sea Hydrographic Commission in accordance with the Copenhagen Declaration decided in 2001.

Duplication of information presented on these pages is not allowed unless permission is obtained from the respective national authority.

This website is developed and managed by The Swedish Maritime Administration by order of the The Baltic Sea Hydrographic Commission. For more information please contact us at <http://www.sjofartsverket.se>.

HELCOM Resurvey Site - Microsoft Internet Explorer

Tiedosto Muokkaa Näytä Suosikit Työkalut Ohje

Osoite http://helcomresurvey.sjofartsverket.se/helcomresurvey/site/framesSetup.html

var 1.1.4 2005-09-14

GOF-57

[Help Page](#)

Route
 Name: Gulf of Finland
 Type: Coastal

General Information
 Country: Finland
 National Priority: M
 S44 Compliancy: 60 %
 Status: In Progress

Resurvey Information
 Remaining Work: 11 days
 Remaining Area: 143,09 km²
 Planned Start: 2004-06-28
 Planned End: No Value
 Actual Start: No Value
 Actual End: No Value

ENC Coverage for new survey (%)
 General: No Value
 Coastal: No Value
 Approach: No Value
 Harbour: No Value
 Berthing: No Value

Section Geometry
 Length: 0 km
 Width: 0 km
 Area: 357,71 km²

Remarks

Last updated: 2006-03-06 16:31:07

Country	Section	Route	Status	Priority	View
All	All	All	All	All	Map Download

Valmis Internet

HELCOM Resurvey Site - Microsoft Internet Explorer

Tiedosto Muokkaa Näytä Suosikit Työkalut Ohje

Osoite http://helcomresurvey.sjofartsverket.se/helcomresurvey/site/framesSetup.html

Country	Section	Route	Route Type	Status	Priority	Remaining Work	
DE	KAD-01	Western Baltic Sea	Coastal	Not Started	M	45	Open
DE	KAD-02	Western Baltic Sea	Coastal	Not Started	M	26	Open
DE	KAD-03	Western Baltic Sea	Coastal	Not Started	M	54	Open
DE	KAD-04	Western Baltic Sea	Coastal	Not Started	M	24	Open
DE	KIE-02	Western Baltic Sea	Coastal	Not Started	M	0	Open
DE	KIE-03	Western Baltic Sea	Coastal	In Progress	M	24	Open
DE	LUB-01	Western Baltic Sea	Coastal	Not Started	M	0	Open
DE	LUB-02	Western Baltic Sea	Coastal	Not Started	M	66	Open
DE	POL-01	Western Baltic Sea	Coastal	Not Started	H	73	Open
DE	RHG-01	Western Baltic Sea	Coastal	Finished	M	0	Open
DE	ROS-01	Western Baltic Sea	Coastal	Not Started	M	17	Open
DE	ROS-02	Western Baltic Sea	Coastal	Not Started	M	12	Open
DE	ROS-03	Western Baltic Sea	Coastal	Not Started	M	9	Open
DE	SAS-01	Western Baltic Sea	Coastal	Finished	M	0	Open
DE	SAS-02	Western Baltic Sea	Coastal	Finished	M	0	Open
DE	STE-01	Western Baltic Sea	Coastal	Not Started	M	7	Open
DE	STE-02	Western Baltic Sea	Coastal	Not Started	M	74	Open
DE	SWB-03	Western Baltic Sea	Coastal	In Progress	M	57	Open

RHG-01

[Help Page](#)

Route
 Name: Western Baltic Sea
 Type: Coastal

General Information
 Country: Germany
 National Priority: M
 S44 Compliancy: 100 %
 Status: Finished

Resurvey Information
 Remaining Work: 0 days
 Remaining Area: 0,00 km²
 Planned Start: 2005-06-28
 Planned End: 2005-12-30
 Actual Start: 2005-06-28
 Actual End: 2005-12-30

ENC Coverage for new survey (%)
 General: No Value
 Coastal: No Value
 Approach: No Value
 Harbour: No Value
 Berthing: No Value

Section Geometry
 Length: 18,5 km
 Width: 7,4 km
 Area: 175,53 km²

Remarks

Last updated: 2006-03-06 16:31:07

Country	Section	Route	Status	Priority	View
All	All	All	All	All	List Download

Valmis Internet

HELCOM Resurvey Site Help - Microsoft Internet Explorer

Tiedosto Muokkaa Näytä Suosikit Työkalut Ohje

Osoite <http://helcomresurvey.sjofartsverket.se/helcomresurvey/sterestricted/help.aspx>

 **Helsinki Commission**

Info for the Web Site of the HELCOM Hydrographic Re-Survey-plan

This is the restricted site for operators. Some of the data can only be updated by the system management. This is further explained below.

This site presents one of the tasks from the HELCOM Copenhagen Declaration adapted at 2001-09-10:

"a) Re-surveying of major shipping routes and ports.

-by requesting the Governments of the Contracting Parties to develop a scheme for systematic re-surveying of major shipping routes and ports in order to ensure that safety of navigation is not endangered by inadequate source information. The survey shall be carried out to a standard not inferior to the latest edition of IHO-S44. The scheme shall be elaborated jointly by the hydrographic services responsible for the areas in question not later than by the end of 2002 with the aim to begin implementation by 2003."

This map-site shows a continuously updated picture of the efforts by the Baltic Sea States to fulfil the task mentioned above.

<u>Term</u>	<u>Explanation</u>
Section	
Name:	Section is the main object in this application. It represents a part of a route. The name is unique. There is always only one responsible member country for each section. The geometry for the sections is stored in WGS84. Adding, removal and renaming of sections is made by the system management.
Route	
Name:	Unique name of the route. Generally named as a description of the actual sea-area or port which a route is serving. Adding, removal or renaming of routes is made by the system management.
Type:	Type describes the kind of navigational water where the general part of the route is located. Types are: Open Sea, Coastal, Fairway and Harbour. Adding or removal of types and change of type for a section is made by the system management.
General information	
Country:	Responsible member country in the standardised code given in ISO 3166. Changing of responsible country is executed by system manager.
National priority:	National priority for surveying of the section. Values are High, Medium and Low.
S44 compliancy:	Percentage ratio of surveying fulfilment according to IHO-S44 for each section.
Status:	Status of the resurvey fulfilment in each section. The value is calculated in the system from values in S44 Compliancy. If no value is saved the status will be

Valmis Internet

HELCOM Resurvey Site - Microsoft Internet Explorer

Tiedosto Muokkaa Näytä Suosikit Työkalut Ohje

Osoite <http://helcomresurvey.sjofartsverket.se/helcomresurvey/sterestricted/framesetrestricted.html>

ver 1.1.d 2006-apr-04

Country Section Route Status Priority View

All All All All All Map Download

 **Helsinki Commission**

Welcome to the Restricted Site of the HELCOM Hydrographic Re-Survey-plan.

Performed and monitored by the memberstates of The Baltic Sea Hydrographic Commission in accordance with the Copenhagen Declaration decided in 2001.

Be aware of that you are now handling primary data through internet.

This website is developed and managed by The Swedish Maritime Administration by order of the The Baltic Sea Hydrographic Commission. For more information please contact us at <http://www.sjofartsverket.se>.

Valmis Internet

HELCOM Resurvey Site - Microsoft Internet Explorer

http://helcomresurvey.ssfartsverket.se/helcomresurvey/restricted/framesetuprestricted.html

Colour by: Status

ver 1.1.4 2006-04-04

GOF-59

[Help Page](#)

Route
 Name: Gulf of Finland
 Type: Coastal

General Information
 Country: Finland
 National Priority: M
 S44 Compliancy: 100 %
 Status: Finished

Resurvey Information
 Remaining Work: 0 days
 Remaining Area: 0,00 km²
 Planned Start: 2003-06-28
 Planned End: 2003-12-30
 Actual Start: 2003-06-28
 Actual End: 2003-12-30

ENC Coverage (%)
 General: No value
 Coastal: No value
 Approach: No value
 Harbour: No value
 Berthing: No value

Section Geometry
 Length: 0 km
 Width: 0 km
 Area: 121,21 km²

Remarks

Country	Section	Route	Status	Priority	View
All	All	All	All	All	Map

Download

Harmonisation needed 3/2006

Not Started
In Progress
Finished
Unknown

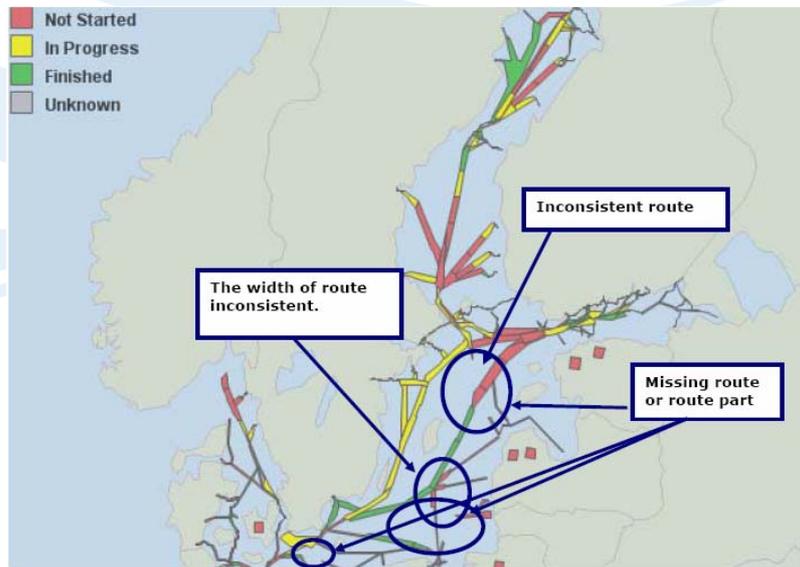
The width of route inconsistent.

Inconsistent route

Missing route or route part

New routes?

Harmonisation needed 6/2007



13 June 2007

BSHC/12, Klaipeda 12-14 June 2007

MWG Work Programme:

MWG Work Programme [V 3.0](#)

Approved by the BSHC 11 Conference

Roughly 20% of Tasks completed

Proposed MWG Work Programme [4.1](#)

13 June 2007

BSHC/12, Klaipeda 12-14 June 2007