

**49<sup>th</sup> NHC Meeting  
7 - 9 February 2005**

**National Report  
DENMARK**

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**Executive summary:** The present report outlines and summarises the surveying and cartographic activities carried out by the Royal Danish Administration of Navigation and Hydrography respectively the National Survey and Cadastre (KMS), Denmark, in 2004.

**Actions to be taken:** None.

**A. SURVEYING**      **By the Royal Danish Administration of Navigation and Hydrography.**

**A.1**      **Status and plans on surveying activities.**

The Danish hydrographic survey operations have been carried out in the following areas:

1. Danish waters inside the Skaw.
2. The west coast of Greenland.

The hydrographic surveys inside the Skaw are re-surveys in accordance with the HELCOM Copenhagen Declaration adopted on 10 September 2001 by the HELCOM Extraordinary Ministerial Meeting.

In accordance with the Declaration a coordinated survey plan has been made for the Baltic. Therefore, the main survey effort has been placed on the primary shipping routes through the Danish waters. The routes will be re-surveyed to meet the standards of "Special Order" or "Order 1" as set in the "International Hydrographic Organization" Special Publication No 44.

The surveys in 2004 have been carried out as follows:

- Route T from The Skaw to South of Korsør in the Great Belt.

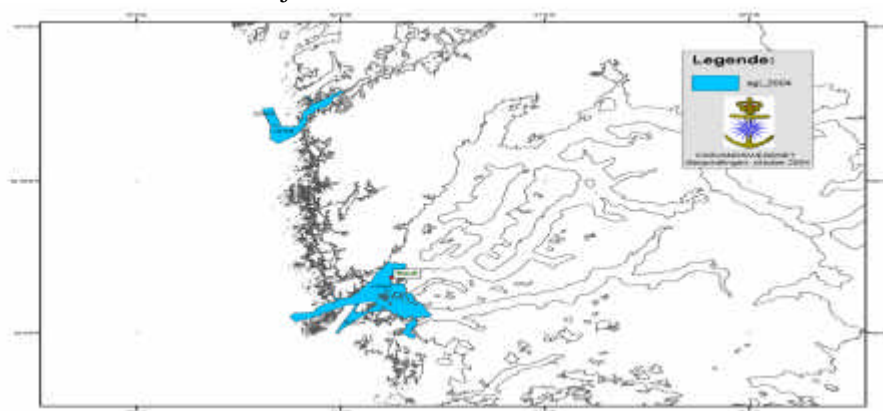
- The entrance to Fredericia.
- Southern part of Guldberg Sund.

All surveys were carried out with multibeam echo sounder systems.

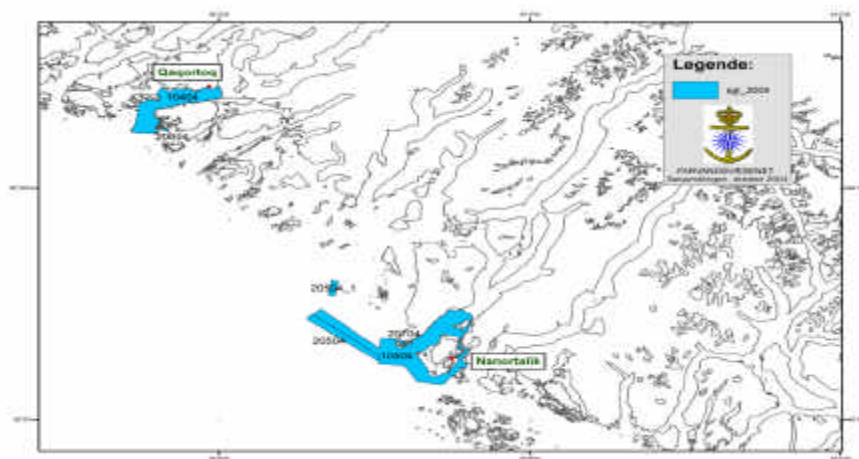
The Surveys in 2005 will be a continuation of the approved coordinated re-survey plan for the Baltic

The surveys on the West Coast of Greenland were carried out in the archipelago in unsurveyed waters in order to allow safe access to harbours and to locate sheltered coastal fairways. The surveys in 2004 were carried out in the following areas:

- The entrance to Nuuk.
- The entrance to Fiskefjord north of Nuuk.



- The entrance to Nanortalik.
- The entrance to Qaqortoq (Julianehåb).



All surveys were carried out with multibeam echo sounder and single beam echo sounder systems.

The plan for the surveys in Greenland waters in 2005 is a continuation of the re-surveying programme of the entrances to the main ports in Greenland.

## **A.2 Survey ships**

FLYVEFISKEN, SKA 15, SKA 16 and two survey launches (O-boats) have operated in Danish waters in 2004. All the ships are equipped with modern multibeam survey instruments.

According to the present shipbuilding programme of the Royal Danish Navy it is planned to replace the survey ships SKA 15 and SKA 16 with two new survey ships by the end of 2005. The design data is as follows:

Length over all	28.9 m
Beam	6.4 m
Designed draught	2.0 m
Speed	12 knots

The ships will be fitted with high end modern survey equipment. The area of operation is Danish coastal waters.

SKA 11 and SKA 12 have operated in the waters along the West Coast of Greenland in 2004.

Based on the good experience with multibeam echo sounder in SKA 11, SKA 12 will also be fitted with a RESON SEABAT 8111ER multibeam echo sounder system. The installation of this system is expected to be completed before the start of the 2005 survey season.

## **B. CHARTING**

**By the National Survey and Cadastre, Denmark (KMS)**

### **B.1 Administrative and Organisational Status**

During 2004 and from the beginning of 2005 KMS has faced yet another reduction in tasks and staff.

As of 1<sup>st</sup> June 2004 most of the administrative tasks has been transferred to a new organization within the Ministry of the Environment called Center for Koncernforvaltning (Center of Management)

As of 1<sup>st</sup> July 2004 the responsibility for Seismic Registration and Research has been transferred to the Geological Survey of Denmark and Greenland (GEUS) and part of the Geodetic Research has by the end of 2004 been transferred to a new organization called Danmarks Rumcenter (Danish Space Center)

KMS has also been reduced due to the fact that part of the Cadastral Division located in the southern part of Jutland has been closed down by the end of 2004 and the tasks (but not staff) have been transferred to KMS in Copenhagen.

And as you probably all know by now the Senior Advisor Ole Berg has been offered and has accepted a new post at the Swedish private company T-kartor. He will therefore leave KMS by the end of January 2005. For the moment he has been granted leave until September 2006. No one will succeed Ole Berg and his tasks has mainly been transferred to the Hydrographic Division (Søkortområdet)

Also a couple of other employees have left the Hydrographic Division in 2004 and we can foresee that we will have to say goodbye to yet another well-known person Mr. Jan Walseth in 2005 due to his expected early retirement. So far the Hydrographic Division in KMS has been reduced with 6 persons from 32 in 2004 to 26 in the beginning of 2005. Only time will show how many of these people will be replaced.

The total budget for KMS is:

	B2004	B2005	B2006	B2007
Net appropriation	167,8	107,6	106,0	103,8
Expenses	258,8	198,6	189,4	187,2
Income, sales	91,0	91,0	83,4	83,4
Man Years	343	275	271	266

As mentioned in the previous report KMS was sued by one of the companies that lost the EU-tender regarding the stocking and distribution of standard paper charts, Chart Corrections and paper nautical publications.

We received the final verdict of the case late 2004. And the outcome was that we had made some minor faults but certainly not enough to terminate the contract with the winning company J.H. Schultz.

As you can imagine this was a great relief for us.

As you may also know KMS has been sued by an Insurance Company that had to pay damages to a leisure boater in 2001. The Court has not yet reached a final decision as the Insurance Company has been given "a sec-

ond chance” to make their case. However the date for the hopefully final decision has now been set to 10th February 2005.

## **B.2 Status of Bilateral Arrangements**

No news.

## **B.3 Status and plans on production**

As stated before KMS will in future focus on acting as *the central Danish digital infrastructure authority for charts, maps and geo-data*.

Consequently also the Hydrographic Division is more and more changing from the issuing of paper products to the issuing of digital products. Except of course from standard paper charts that are still produced and issued.

### **New ENC scheme**

As you are probably all aware we have finalized our new ENC scheme that was a merger of the small ENC cells into larger cells. The result was a reduction of cells from app. 360 to 60. Our large cells are now containing information from app. 2-3 paper charts instead of fragments of a chart.

### **Nautisk Informations System**

In 2004 we have also been involved in the development of a new system called “Nautisk Informations System”. The first part of the system can be seen on our web site within a month or so.

The first visible result will be a new edition of Den danske Lods (the Danish Pilot). The information can be printed as a whole or in parts if necessary. The second step is a new look and a new functionality of our “Chart Corrections”

### **Bag om søkortet/Behind the nautical chart**

We have also produced a new edition of the publication “Bag om Søkortet” (in Danish) and an English version of the same publication named “Behind the nautical chart (surveying, reliability, use)”. The information will be updated whenever new information is received. The publications can soon be down-loaded or printed free of charge from our web site..

### **Danish harbours and bridges.**

In 2003 KMS launched a new web-site [www.danskehavnelods.dk](http://www.danskehavnelods.dk) that contain information on Danish harbours and bridges. The information is updated weekly and can be downloaded or printed free of charge.

### **Kort 1/INT 1**

Also a new edition of our Kort 1/INT 1 has been produced and made available both in a printed format (which can be bought for 65 Dkr.) and free of charge from our web site.

## Charts

In 2004 KMS has produced and issued the following charts.

### ***Denmark***

22 new editions as follows:

January: 92 (INT 1300), 196, 197

February: 105 (INT 1450), 116, 151 (INT1375), 188

March: 102 (INT 1302), 114 (INT 1377), 195

April: 93 (INT 1044), 95 (INT 1451)

May: 103 (INT 1303)

August: 100, 158 (INT 1376)

October: 60, 106 (INT 1382), 128 (INT 1379), 145 (INT 1371),  
189 (INT 1336)

November: 159 (INT 1374)

December: 141 (INT 1370)

18 updated reprints as follows:

January: 117, 118

March: 108 (INT 1448), 109 (INT 1449), 113, 123, 143 (INT 1369), 198

April: 101 (INT 1301), 153, 154

May: 94 (INT 1411), 141 (INT 1370), 160

September: 131 (INT 1331)

October: 152 (INT 1373), 133 (INT 1333)

December: 142 (INT 1368)

### ***Greenland***

7 updated reprints as follows:

January: 1310, 1313

March: 1001, 1210, 2750

May: 1330

June: 2300

### **Chart Corrections**

On a weekly basis “Chart Corrections” has been published. In 2004 the charts covering Danish, Greenlandic and Faroese waters were affected by 507 published corrections.

The major part of these corrections (415) applied for the Danish waters.

### **Det levende Søkort**

Last but not least KMS together with the Royal Danish Administration of Navigation and Hydrography, the Danish Maritime Administration, the

Danish Meteorological Institute and the Danish Sailing Association has kept the product updated free of charge by issuing relevant new information. Now we are looking for the possibility of developing a new edition by seeking new partners e.g. interested private companies.