**16th CHRIS MEETING**
**Ottawa, Canada, 28-31 May 2004**

# Compendium of National Reports

*(IHB)*

| SUMMARY | |
|---|---|
| ***Executive summary:*** | This document provides a compendium of all national reports on ENC development / production, which have been received at the IHB from February 2004, namely: Argentina, Australia, Chile, Finland, France, Germany, Greece, Netherlands, New Zealand, Portugal, Russia, South Africa, Sweden, UK and USA. |
| ***Actions to be taken:*** | The meeting is invited to take note of this paper. |
| ***Related documents:*** | CHRIS16-8.2A |

## ARGENTINA (March 2004)

### ENC DEVELOPMENT

The SHN has produced only 8 (eight) ENCs at different scales and for different purposes in S-57 Ed. 3.1 (5 of the Río de la Plata and 3 coastal harbours). They have been made from paper charts and have incorporated the latest hydrographic data available.

These ENCs are not available for commercial purposes yet (commercial navigation) because we didn't have capability for validation until now. We have just acquired a validation software.

### ENC PRODUCTION PROGRAM

We have in process ENCs at different scales, covering approaches and harbours of the Río de la Plata. Among these, we are planning to produce a series of 16 large scales cells covering the main fairways to enter our most important ports (Buenos Aires, La Plata, Rosario, etc).

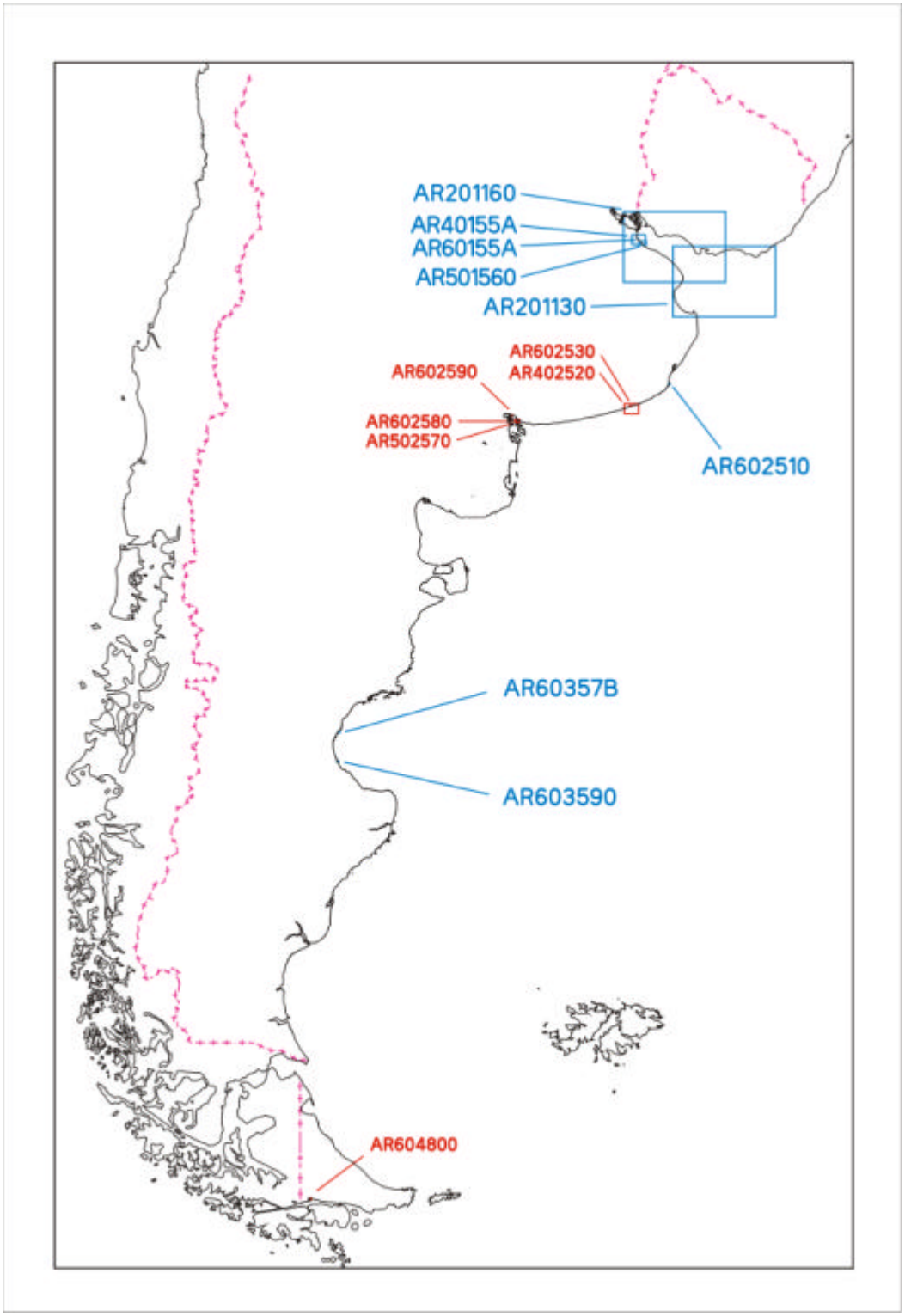
Apart from the mentioned ENCs, the SHN intends to produce 3 more cells of the Bahía Blanca Ria and other 3 coastal harbours.

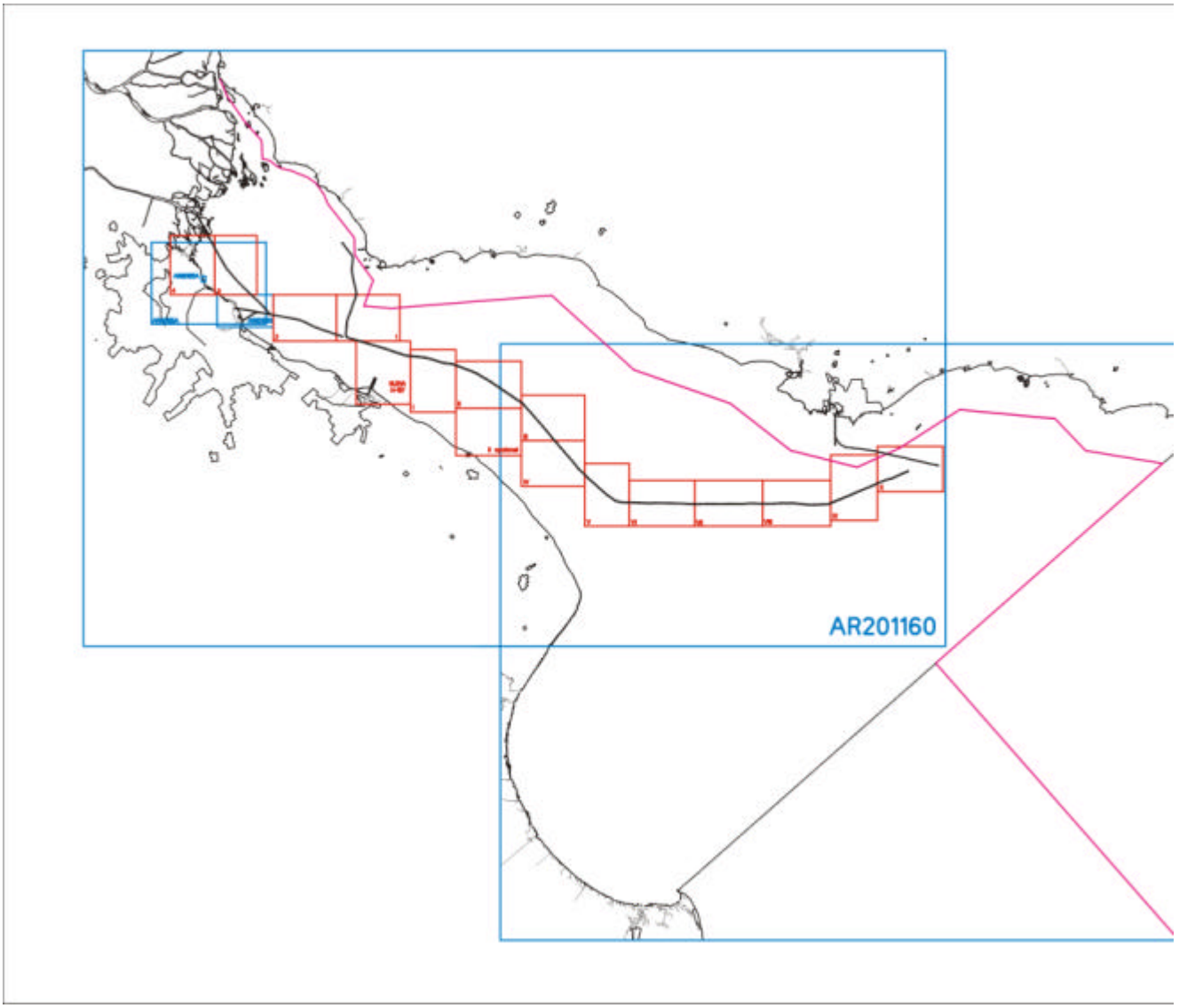
We have only a small capacity production, at the moment we are working with two CARIS ENC experts, but they are training more personnel while they continue the ENC production, therefore we expect to increase our capacities during the present year.

Regarding the ENC validation, at the beginning of this year we acquired one licence of the software: dKart Inspector – HydroService, so we will begin to validate our own cells from now on. This acquisition was achieved due to the proposal for an agreement with the IC-ENC. This cooperation also includes the reception of two more CARIS HOM licences and the corresponding training.

**ENC PRODUCTION PROGRAM**

Also we produce EC in raster format BSB. We are commercialising 5 CDs, each of them covers a main navigational area: RÍO DE LA PLATA, 29 charts; RÍA DE BAHÍA BLANCA, 9 charts; RÍO PARANÁ, 28 charts; a total of 66 charts.




AR201160

# AUSTRALIA (April 2004)

**National report by Australia (Australian Hydrographic Service (AHS))**

**ENC Production**

1. Australia's current ENC project to cover the Great Barrier Reef Inner Route by December 2004 is on schedule with the next planned milestone being completion of the Whitsundays chart conversions in the latter half of 2004. The actual release date is dependant on the Australian Hydrographic Office (AHO) implementation of the IHO encryption module.

2. Australia's ENC future production program has recently been reviewed and from January 2005 the AHO will focus its ENC efforts in three areas. They are:

   2.1. Great Barrier Reef

      2.1.1. Enhancement of the 1 metre swathe area with chart based conversions from Weipa to Cape Weymouth. This initiative is to support ECDIS manufacturers who prefer a cell-based coverage rather than the multi-point polygon boundaries of the current swathe area.

      2.1.2. Enhancement of the major shipping lanes with 1 metre contouring through the Inner Route to Cairns. Both these activities will result in New Editions of currently released cells.

   2.2. Port Series

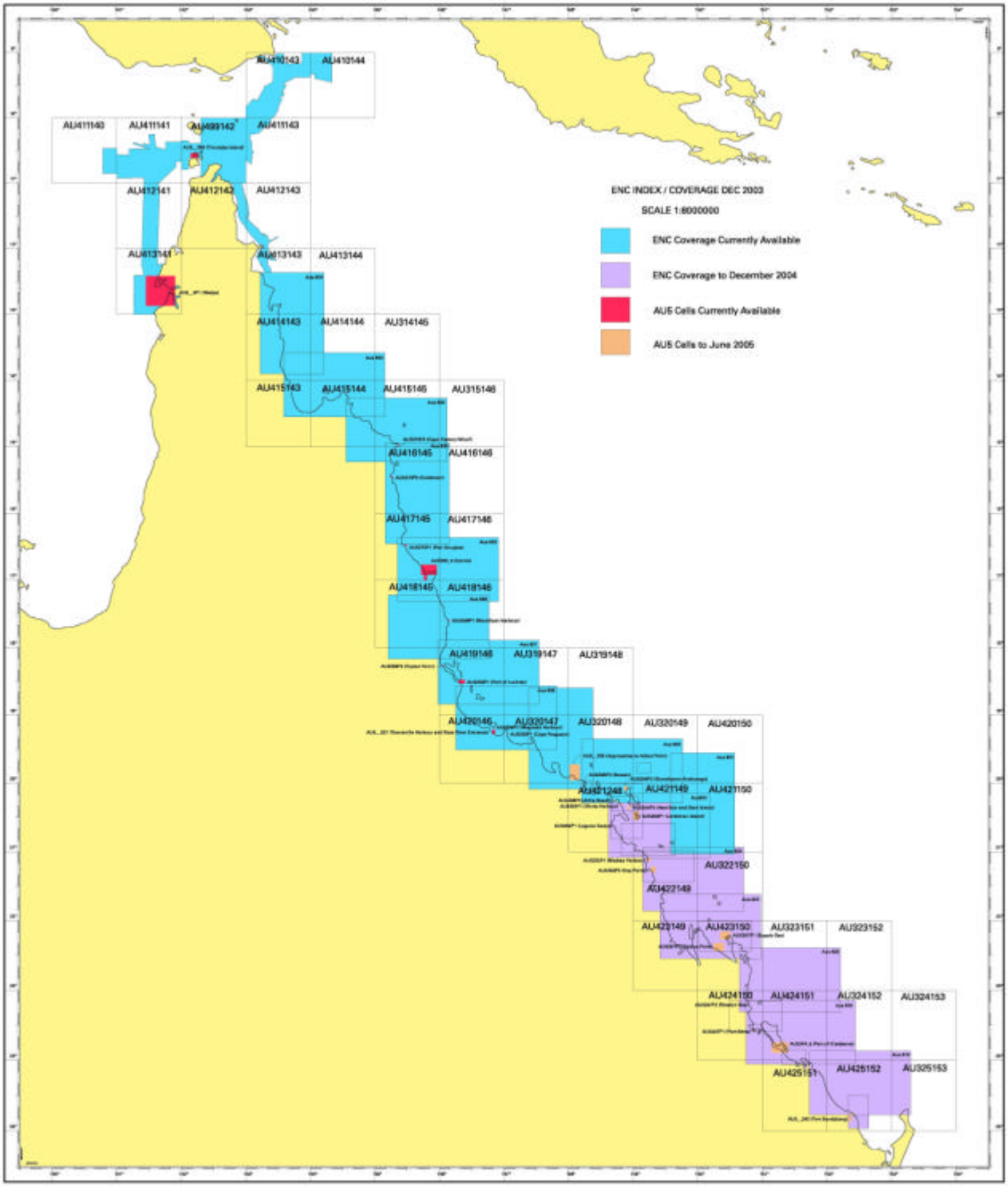
      2.2.1. The ports of Cairns, Townsville and Gladstone are part of the Great Barrier Reef Project but other ports around Australia will also be released. At this stage the following ports will be released over the next few years – Brisbane, Darwin, Sydney (including Jervis Bay, Port Kembla, Botany Bay, Newcastle), Dampier, Port Hedland, Broome, Fremantle, Port Phillip & Westernport.

   2.3. Small Scale ENC

      2.3.1. In line with the WEND philosophy the AHO will release it's 1: 3,500,000 scale chart conversions, supplemented by 1: 1,500,000 scale chart conversions. The focus will be on eastern Australia and working anticlockwise around the country.

3. Australia's ENCs (*SeafarerÒ ENC*) have been available for commercial sale since 1 July 2002. Current coverage extends from Weipa, through Torres Strait to Abbot Point including Hydrographers Passage. Cells are available through the *SeafarerÒ RNC* network of distributors. *SeafarerÒ ENC* are supported by an update service.

4. More information about *SeafarerÒ ENC* can be found on the AHO website www.hydro.gov.au


ENC INDEX / COVERAGE DEC 2003
SCALE 1:6000000
ENC Coverage Currently Available
ENC Coverage to December 2004
AUS Cells Currently Available
AUS Cells to June 2005
AU410143
AU410144
AU411140
AU411141
AU411142
AU411143
AU412141
AU412142
AU412143
AU413141
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AU413144
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# CHILE (February 2004)

## ENC Coverage

### General

| ED. | CELL | DATE Pro. - Issu. | S | W | N | E |
|---|---|---|---|---|---|---|
| 3.1 | **CL2AI081.000** | 06/00 - 05/03 | -45.1731000 | -76.9984500 | -43.1733000 | -72.3318100 |
| 3.1 | **CL2AI082.000** | 06/00 - 05/03 | -47.1733100 | -76.9984500 | -45.1731000 | -72.3318100 |
| 3.1 | **CL2AI090.000** | 05/00 - 05/03 | -49.6633100 | -77.5072100 | -47.1732800 | -73.0072200 |
| 3.1 | **CL2AN020.000** | 10/99 - 05/03 | -27.2196182 | -73.0020961 | -22.6696917 | -69.8354165 |
| 3.1 | **CL2AN022.000** | 03/00 - 05/03 | -23.7535310 | -71.5019598 | -21.9202050 | -70.1019654 |
| 3.1 | **CL2AT030.000** | 10/99 - 05/03 | -30.3326200 | -73.5000000 | -26.5826400 | -70.4999800 |
| 3.1 | **CL2BB060.000** | 09/99 - 05/03 | -40.3363600 | -76.0027300 | -36.5030700 | -72.6694200 |
| 3.1 | **CL2CO040.000** | 09/99 - 05/03 | -33.3362900 | -74.0022800 | -29.6696600 | -71.0022800 |
| 3.1 | **CL2LL071.000** | 09/99 - 05/03 | -42.0039946 | -76.0029626 | -39.6706325 | -72.3363290 |
| 3.1 | **CL2LL072.000** | 10/99 - 05/03 | -43.1732800 | -76.0030100 | -42.0039900 | -72.3363300 |
| 3.1 | **CL2MA101.000** | 05/00 - 05/03 | -51.3333300 | -76.9937700 | -49.6633100 | -73.1771400 |
| 3.1 | **CL2MA102.000** | 06/00 - 05/03 | -53.0675800 | -76.9970600 | -51.3333300 | -73.1803900 |
| 3.1 | **CL2MA110.000** | 10/99 - 05/03 | -54.1666700 | -69.1666700 | -51.3333200 | -67.2333300 |
| 3.1 | **CL2TR010.000** | 10/99 - 05/03 | -23.2671000 | -73.0006300 | -18.1671700 | -69.8339500 |
| 3.1 | **CL2TR012.000** | 01/01 - 05/03 | -20.4196480 | -71.3352670 | -18.3363640 | -70.0019310 |
| 3.1 | **CL2TR014.000** | 03/00 - 05/03 | -22.1671040 | -71.3339790 | -20.1671070 | -70.0006460 |
| 3.1 | **CL2VA050.000** | 10/00 - 05/03 | -37.3363169 | -74.8357817 | -32.6697165 | -71.3357350 |

### Coastal

| ED. | CELL | DATE Pro. - Issu. | S | W | N | E |
|---|---|---|---|---|---|---|
| 3.1 | **CL3AI070.000** | 06/03 - 06/03 | -45.5416700 | -73.9183300 | -44.9083300 | -73.2500000 |
| 3.1 | **CL3AI300.000** | 07/03 - 07/03 | -48.3669700 | -75.0176300 | -47.4003100 | -74.4509600 |
| 3.1 | **CL3AI400.000** | 08/03 - 08/03 | -49.2336400 | -74.7343100 | -48.2669800 | -73.8343100 |
| 3.1 | **CL3AI500.000** | 08/03 - 08/03 | -50.1336400 | -74.8593300 | -49.1475200 | -73.7843300 |
| 3.1 | **CL3BB010.000** | 02/01 - 05/03 | -37.2749950 | -73.6833330 | -36.7083290 | -73.0916680 |
| 3.1 | **CL3CO010.000** | 11/01 - 05/03 | -30.3333330 | -71.7833330 | -29.6874950 | -71.2499970 |
| 3.1 | **CL3MA130.000** | 03/02 - 05/03 | -49.9666670 | -75.9166670 | -49.6661150 | -74.5958310 |
| 3.1 | **CL3MA140.000** | 05/02 - 05/03 | -50.2494440 | -75.9166670 | -49.9666670 | -74.5958310 |
| 3.1 | **CL3MA150.000** | 06/02 - 05/03 | -50.3333320 | -75.1750000 | -49.7419420 | -73.9791670 |
| 3.1 | **CL3MA160.000** | 07/02 - 05/03 | -50.6416670 | -75.1750000 | -50.3333320 | -73.9791670 |
| 3.1 | **CL3MA191.000** | 07/01 - 05/03 | -51.3333290 | -74.9166670 | -50.8399960 | -73.8333320 |
| 3.1 | **CL3MA192.000** | 08/01 - 05/03 | -51.7083330 | -74.9166670 | -51.3333290 | -73.8333320 |
| 3.1 | **CL3MA510.000** | 07/99 - 05/03 | -53.0674610 | -75.1688770 | -52.3507980 | -74.3333370 |
| 3.1 | **CL3MA520.000** | 09/99 - 05/03 | -53.0674610 | -74.3333330 | -52.3507980 | -73.6188310 |
| 3.1 | **CL3MA530.000** | 08/99 - 05/03 | -53.6174520 | -73.8854910 | -52.9007850 | -73.1000020 |
| 3.1 | **CL3MA540.000** | 08/99 - 05/03 | -53.6174520 | -73.1000020 | -52.9007850 | -72.3188290 |
| 3.1 | **CL3MA550.000** | 08/99 - 05/03 | -54.2007790 | -72.5521650 | -53.4841110 | -71.7666670 |
| 3.1 | **CL3MA560.000** | 08/99 - 05/03 | -54.2007790 | -71.7666670 | -53.4841110 | -70.8105000 |
| 3.1 | **CL3MA570.000** | 08/99 - 05/03 | -53.9174470 | -71.3355070 | -52.9007710 | -70.1188400 |
| 3.1 | **CL3MA580.000** | 08/99 - 05/03 | -53.0716120 | -71.0021620 | -52.3091100 | -69.2938330 |
| 3.1 | **CL3MA590.000** | 08/99 - 05/03 | -52.7166520 | -69.6855030 | -52.0999800 | -67.9230010 |
| 3.1 | **CL3MA800.000** | 08/03 - 08/03 | -63.9300000 | -61.4166700 | -62.9499900 | -57.7833300 |

### Approach

| ED. | CELL | DATE Pro. - Issu. | S | W | N | E |
|---|---|---|---|---|---|---|
| 3.1 | **CL4AI010.000** | 09/02 - 05/03 | -45.0500000 | -74.0083340 | -44.8944430 | -73.6083360 |
| 3.1 | **CL4AI020.000** | 09/02 - 05/03 | -45.0936110 | -74.5000000 | -44.9611110 | -74.0083360 |
| 3.1 | **CL4AI030.000** | 10/02 - 05/03 | -44.0750000 | -73.1916670 | -43.7958340 | -72.9499990 |
| 3.1 | **CL4AI070.000** | 06/03 - 06/03 | -45.2566700 | -73.5666700 | -45.1333300 | -73.4444500 |
| 3.1 | **CL4AI090.000** | 10/03 - 10/03 | -45.3686100 | -74.5933300 | -45.2916700 | -74.4855600 |
| 3.1 | **CL4AN010.000** | 12/99 - 05/03 | -23.1347003 | -70.6325232 | -22.9305334 | -70.2708563 |
| 3.1 | **CL4BB010.000** | 08/00 - 05/03 | -36.8466260 | -73.2762530 | -36.5031650 | -72.9163000 |
| 3.1 | **CL4CO010.000** | 11/00 - 05/03 | -30.3285320 | -71.6757230 | -30.1071440 | -71.4673890 |
| 3.1 | **CL4CO020.000** | 07/02 - 05/03 | -30.2177780 | -71.5166670 | -30.0700010 | -71.3583330 |
| 3.1 | **CL4LL010.000** | 02/01 - 05/03 | -41.9166670 | -74.0083330 | -41.6416670 | -73.3666650 |
| 3.1 | **CL4LL020.000** | 02/01 - 05/03 | -41.9166610 | -74.0250000 | -41.7333270 | -73.7499980 |
| 3.1 | **CL4LL030.000** | 08/02 - 05/03 | -41.9166610 | -73.4333330 | -41.6499960 | -72.9833340 |
| 3.1 | **CL4LL040.000** | 08/02 - 05/03 | -42.2719399 | -72.6950000 | -41.9541628 | -72.3583355 |
| 3.1 | **CL4LL050.000** | 07/02 - 05/03 | -42.4958290 | -72.6000000 | -42.1791620 | -72.3499990 |
| 3.1 | **CL4LL060.000** | 07/02 - 05/03 | -42.6683330 | -73.8166670 | -42.3166680 | -73.3666650 |
| 3.1 | **CL4LL070.000** | 08/02 - 05/03 | -42.6666670 | -73.4500000 | -42.2666660 | -73.0666650 |
| 3.1 | **CL4LLL10.000** | 01/04 - 01/04 | -40.3666600 | -72.6166700 | -40.0716700 | -72.2000100 |
| 3.1 | **CL4LLL11.000** | 01/04 - 01/04 | -40.3233300 | -72.5022200 | -40.2930600 | -72.4513900 |
| 3.1 | **CL4LLL12.000** | 01/04 - 01/04 | -40.1594400 | -72.4363900 | -40.1219400 | -72.3833400 |
| 3.1 | **CL4LLL13.000** | 01/04 - 01/04 | -40.2283300 | -72.4161100 | -40.1966700 | -72.3805500 |
| 3.1 | **CL4LLL14.000** | 01/04 - 01/04 | -40.1547200 | -72.4841700 | -40.1366700 | -72.4461100 |
| 3.1 | **CL4LLL15.000** | 11/03 - 00/03 | -40.7438900 | -72.6369400 | -40.6094400 | -72.2691700 |
| 3.1 | **CL4LLL90.000** | 11/03 - 11/03 | -43.4516700 | -72.4833300 | -43.1466700 | -72.1333400 |
| 3.1 | **CL4MA110.000** | 08/02 - 05/03 | -50.3125000 | -74.9180560 | -50.2641660 | -74.8416650 |
| 3.1 | **CL4MA115.000** | 09/02 - 05/03 | -50.4688840 | -75.0216670 | -50.4138860 | -74.9666670 |
| 3.1 | **CL4MA120.000** | 10/02 - 05/03 | -50.9291670 | -74.8466670 | -50.4880560 | -74.2569430 |
| 3.1 | **CL4MA510.000** | 08/99 - 05/03 | -53.6674430 | -72.7188330 | -53.1674430 | -72.1604990 |
| 3.1 | **CL4MA570.000** | 08/99 - 05/03 | -53.2509460 | -70.9851250 | -53.0926110 | -70.7517880 |
| 3.1 | **CL4MA850.000** | 08/03 - 08/03 | -63.0691700 | -60.9125000 | -62.8333300 | 60.3666700 |
| 3.1 | **CL4TR010.000** | 12/99 - 05/03 | -18.5197220 | -70.4250000 | -18.3366660 | -70.2766650 |
| 3.1 | **CL4VA010.000** | 11/00 - 05/03 | -33.0503290 | -71.7506340 | -32.6669980 | -71.4339660 |
| 3.1 | **CL4VA050.000** | 09/02 - 05/03 | -33.7833333 | -79.0666667 | -33.5333809 | -78.7167321 |

**Harbour**

| ED. | CELL | DATE Pro. - Issu. | S | W | N | E |
|---|---|---|---|---|---|---|
| 3.1 | **CL5AI005.000** | 11/02 - 05/03 | -45.1013889 | -74.3011111 | -45.0727775 | -74.2297214 |
| 3.1 | **CL5AI010.000** | 10/02 - 05/03 | -43.9750000 | -73.1250000 | -43.9541664 | -73.0916668 |
| 3.1 | **CL5AI013.000** | 12/03 - 12/03 | -45.4883300 | -72.9205600 | -45.3916700 | -72.7850000 |
| 3.1 | **CL5AI014.000** | 12/03 - 12/03 | -45.4861100 | -72.8541700 | -45.4475000 | -72.8116700 |
| 3.1 | **CL5AI015.000** | 09/03 - 09/03 | -45.4400000 | -72.8372200 | -45.3950000 | -72.7522200 |
| 3.1 | **CL5AI017.000** | 09/03 - 09/03 | -45.4216700 | -72.7655600 | -45.3911100 | -72.6805600 |
| 3.1 | **CL5AI019.000** | 09/03 - 09/03 | -45.4050000 | -72.7213900 | -45.3911100 | -72.7000000 |
| 3.1 | **CL5AI028.000** | 06/03 - 06/03 | -45.2841700 | -73.4591700 | -45.2561100 | -73.4183300 |
| 3.1 | **CL5AI030.000** | 05/03 - 05/03 | -45.1800000 | -73.5411100 | -45.1561100 | -73.5088900 |
| 3.1 | **CL5AI032.000** | 05/03 - 05/03 | -45.0552800 | -73.7394400 | -45.0072200 | -73.6750000 |
| 3.1 | **CL5AI034.000** | 05/03 - 05/03 | -45.3500000 | -73.7666700 | -45.2511100 | -73.6500000 |
| 3.1 | **CL5AI050.000** | 10/02 - 05/03 | -49.2177778 | -74.4070833 | -49.1786108 | -74.3816666 |
| 3.1 | **CL5AI055.000** | 10/02 - 05/03 | -48.9338889 | -74.3816667 | -48.8880554 | -74.3094456 |
| 3.1 | **CL5AI060.000** | 10/02 - 05/03 | -49.1788889 | -74.4500000 | -49.0583333 | -74.3458326 |
| 3.1 | **CL5AI091.000** | 10/03 - 10/03 | -45.4944400 | -74.4416700 | -45.4069400 | -74.3366700 |
| 3.1 | **CL5AI092.000** | 10/03 - 10/03 | -45.3872200 | -74.1125000 | -45.3616700 | -74.0683300 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3.1 | **CL5AI093.000** | 10/03 - 10/03 | -45.5777800 | -74.2425000 | -45.5530600 | -74.1883300 |
| 3.1 | **CL5AN005.000** | 12/99 - 05/03 | -22.1169646 | -70.2490917 | -22.0530770 | -70.1796470 |
| 3.1 | **CL5AN010.000** | 12/99 - 05/03 | -23.1094228 | -70.4986367 | -23.0785920 | -70.4403001 |
| 3.1 | **CL5AN015.000** | 12/99 - 05/03 | -23.6800611 | -70.4435722 | -23.6136725 | -70.3796836 |
| 3.1 | **CL5AN020.000** | 07/03 - 07/03 | -23.5327300 | -70.5500000 | -23.4827300 | -70.5000000 |
| 3.1 | **CL5AN025.000** | 07/03 - 07/03 | -23.5611100 | -70.4316700 | -23.5277800 | -70.3950000 |
| 3.1 | **CL5AN030.000** | 07/03 - 07/03 | -23.7700000 | -70.4888900 | -23.7325000 | -70.4383300 |
| 3.1 | **CL5AN035.000** | 07/03 - 07/03 | -24.1291700 | -70.5416700 | -24.0880600 | -70.4847200 |
| 3.1 | **CL5AN040.000** | 07/03 - 07/03 | -24.1911100 | -70.5486100 | -24.1350000 | -70.4916700 |
| 3.1 | **CL5AN045.000** | 07/03 - 07/03 | -24.2552800 | -70.5638900 | -24.2622200 | -70.5083300 |
| 3.1 | **CL5AN050.000** | 07/03 - 07/03 | -25.6666700 | -70.7000000 | -25.6066700 | -70.6183300 |
| 3.1 | **CL5AN055.000** | 07/03 - 07/03 | -26.1750000 | -70.7216700 | -26.1133300 | -70.6411100 |
| 3.1 | **CL5AN060.000** | 07/03 - 07/03 | -26.3697200 | -70.6916700 | -26.2847200 | -70.6166700 |
| 3.1 | **CL5AN061.000** | 07/03 - 07/03 | -26.3619400 | -70.6566700 | -26.3447200 | -70.6366700 |
| 3.1 | **CL5AN065.000** | 07/03 - 07/03 | -25.8983300 | -70.7211100 | -25.8683300 | -70.6861100 |
| 3.1 | **CL5AN070.000** | 07/03 - 07/03 | -26.5816700 | -70.7222200 | -26.5394400 | -70.6752800 |
| 3.1 | **CL5AT005.000** | 11/00 - 05/03 | -27.1589007 | -70.9581044 | -27.0022340 | -70.8006045 |
| 3.1 | **CL5BB005.000** | 08/00 - 05/03 | -36.6415732 | -72.9883986 | -36.6082231 | -72.9526661 |
| 3.1 | **CL5BB010.000** | 08/02 - 05/03 | -36.7313889 | -73.1236111 | -36.6805559 | -73.0666670 |
| 3.1 | **CL5BB015.000** | 08/02 - 05/03 | -36.7450000 | -73.0216667 | -36.6941662 | -72.9666664 |
| 3.1 | **CL5BB020.000** | 09/02 - 05/03 | -36.7724716 | -73.1982436 | -36.7085833 | -73.1204108 |
| 3.1 | **CL5BB025.000** | 02/01 - 05/03 | -37.0853297 | -73.2240700 | -37.0036629 | -73.1340706 |
| 3.1 | **CL5BB030.000** | 06/02 - 05/03 | -37.6055556 | -73.6966667 | -37.5513889 | -73.6369439 |
| 3.1 | **CL5BB035.000** | 06/02 - 05/03 | -37.3919444 | -73.6736111 | -37.3558331 | -73.6344447 |
| 3.1 | **CL5CO005.000** | 11/00 - 05/03 | -29.9885312 | -71.4040547 | -29.8935311 | -71.2707218 |
| 3.1 | **CL5LL005.000** | 02/01 - 05/03 | -39.9456298 | -73.4918574 | -39.7946609 | -73.3386696 |
| 3.1 | **CL5LL010.000** | 02/01 - 05/03 | -39.8951485 | -73.4334778 | -39.8690373 | -73.4015291 |
| 3.1 | **CL5LL013.000** | 05/02 - 05/03 | -41.7500000 | -73.1027778 | -41.6999995 | -73.0249988 |
| 3.1 | **CL5LL014.000** | 06/02 - 05/03 | -41.8466667 | -73.3736111 | -41.7919449 | -73.2847216 |
| 3.1 | **CL5LL015.000** | 06/02 - 05/03 | -41.7972222 | -73.1702778 | -41.7408339 | -73.0813888 |
| 3.1 | **CL5LL020.000** | 06/02 - 05/03 | -41.8463889 | -73.1327778 | -41.8041660 | -73.0922229 |
| 3.1 | **CL5LL025.000** | 08/02 - 05/03 | -41.5250000 | -73.0200000 | -41.4633336 | -72.9099997 |
| 3.1 | **CL5LL030.000** | 08/02 - 05/03 | -41.4883333 | -72.9638889 | -41.4777780 | -72.9455555 |
| 3.1 | **CL5LL035.000** | 07/02 - 05/03 | -42.4900000 | -73.6900000 | -42.3416667 | -73.5600010 |
| 3.1 | **CL5LL040.000** | 08/02 - 05/03 | -42.5361111 | -73.8113889 | -42.4249999 | -73.7186103 |
| 3.1 | **CL5LL045.000** | 08/02 - 05/03 | -42.6300000 | -73.7900000 | -42.6100002 | -73.7433335 |
| 3.1 | **CL5LL050.000** | 10/02 - 05/03 | -42.9600000 | -72.8416667 | -42.8599996 | -72.6916677 |
| 3.1 | **CL5MA250.000** | 06/03 - 06/03 | -51.7827800 | -72.5877800 | -51.6791700 | -72.4461100 |
| 3.1 | **CL5MA570.000** | 12/00 - 05/03 | -53.1793337 | -70.9218338 | -53.1643336 | -70.8973894 |
| 3.1 | **CL5MA705.000** | 09/02 - 05/03 | -54.8850000 | -70.0225000 | -54.7591669 | -69.8766681 |
| 3.1 | **CL5MA710.000** | 10/02 - 05/03 | -54.8050000 | -70.0127778 | -54.6788885 | -69.9091664 |
| 3.1 | **CL5MA715.000** | 12/02 - 05/03 | -54.7994444 | -69.9883333 | -54.7799996 | -69.9583335 |
| 3.1 | **CL5MA720.000** | 01/03 - 05/03 | -55.1958333 | -69.6100000 | -55.0305561 | -69.4875010 |
| 3.1 | **CL5MA725.000** | 01/03 - 05/03 | -54.8666667 | -69.7633333 | -54.6999992 | -69.5666663 |
| 3.1 | **CL5MA730.000** | 03/03 - 05/03 | -54.7725000 | -69.6158333 | -54.7661111 | -69.6047223 |
| 3.1 | **CL5MA735.000** | 02/03 - 05/03 | -54.8452778 | -69.6900000 | -54.8352776 | -69.6705555 |
| 3.1 | **CL5MA740.000** | 10/02 - 05/03 | -54.9527778 | -69.1619444 | -54.9366665 | -69.1297230 |
| 3.1 | **CL5MA745.000** | 08/02 - 05/03 | -54.9316667 | -68.3338889 | -54.9027780 | -68.2858329 |
| 3.1 | **CL5MA748.000** | 10/02 - 05/03 | -54.9583333 | -68.4316667 | -54.8813898 | -68.1950002 |
| 3.1 | **CL5MA750.000** | 08/02 - 05/03 | -54.9258333 | -68.2730556 | -54.8969446 | -68.2052774 |
| 3.1 | **CL5MA755.000** | 07/02 - 05/03 | -54.9319444 | -68.3577778 | -54.9169448 | -68.3283330 |
| 3.1 | **CL5MA760.000** | 11/02 - 05/03 | -54.9480556 | -67.7311111 | -54.9083335 | -67.6499999 |
| 3.1 | **CL5MA860.000** | 10/02 - 05/03 | -62.8133333 | -61.3000000 | -62.7166667 | -60.9999999 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3.1 | **CL5MA870.000** | 08/03 - 08/03 | -63.0105600 | -60.6000000 | -62.9727800 | -60.5144400 |
| 3.1 | **CL5MA890.000** | 12/03 - 12/03 | 63.3355600 | -58.0000000 | -63.2772200 | -57.8641700 |
| 3.1 | **CL5TR005.000** | 12/99 - 05/03 | -20.2452810 | -70.2144557 | -20.1705589 | -70.1311219 |
| 3.1 | **CL5TR010.000** | 04/00 - 05/03 | -20.8288889 | -70.2633333 | -20.7091663 | -70.1683336 |
| 3.1 | **CL5TR011.000** | 07/03 - 07/03 | -20.7541700 | -70.2030600 | -20.7350000 | -70.1819400 |
| 3.1 | **CL5TR012.000** | 07/03 - 07/03 | -20.8130600 | -70.2113900 | -20.7883300 | -70.1841700 |
| 3.1 | **CL5TR050.000** | 07/03 - 07/03 | -19.2250000 | -70.3250000 | -19.1700000 | -70.2583300 |
| 3.1 | **CL5TR052.000** | 07/03 - 07/03 | -19.3583300 | -70.3083300 | -19.3050000 | -70.2500000 |
| 3.1 | **CL5TR056.000** | 07/03 - 07/03 | -19.6808400 | -70.2247300 | -19.6333300 | -70.1625000 |
| 3.1 | **CL5TR060.000** | 07/03 - 07/03 | -19.9080600 | -70.1644400 | -19.8600000 | -70.1177800 |
| 3.1 | **CL5VA005.000** | 03/03 - 05/03 | -32.7877778 | -71.5516667 | -32.7000005 | -71.4783337 |
| 3.1 | **CL5VA010.000** | 11/00 - 05/03 | -32.9353289 | -71.5706333 | -32.8642178 | -71.5006329 |
| 3.1 | **CL5VA015.000** | 12/00 - 05/03 | -33.0460333 | -71.6538556 | -32.9779753 | -71.5427336 |
| 3.1 | **CL5VA020.000** | 08/00 - 05/03 | -33.6244444 | -71.6680556 | -33.5477775 | -71.6077777 |
| 3.1 | **CL5VA021.000** | 11/02 - 05/03 | -33.5966667 | -71.6516667 | -33.5683333 | -71.6099998 |
| 3.1 | **CL5VA055.000** | 08/02 - 05/03 | -33.6466667 | -78.8366667 | -33.6216665 | -78.8094447 |
| 3.1 | **CL5VA060.000** | 08/02 - 05/03 | -33.6913889 | -78.9497222 | -33.6416664 | -78.9027774 |
| 3.1 | **CL5VA065.000** | 08/02 - 05/03 | -33.6800000 | -78.8977778 | -33.6388887 | -78.8463884 |
| 3.1 | **CL5VAL05.000** | 10/03 - 10/03 | -34.8625000 | -72.1000000 | -34.7758300 | -72.0133300 |
| 3.1 | **CL5VAL10.000** | 10/03 - 10/03 | -34.8533300 | -72.0533300 | -34.8333300 | -72.0375000 |
| 3.1 | **CL5VAL15.000** | 10/03 - 10/03 | -34.8483400 | -72.0666700 | -34.8294500 | -72.0516700 |

**Berthing**

| *ED.* | *CELL* | *DATE Pro. - Issu.* | *S* | *W* | *N* | *E* |
|---|---|---|---|---|---|---|
| 3.1 | **CL6LL010.000** | 10/02 - 05/03 | -41.5002778 | -72.9888889 | -41.4969445 | -72.9847223 |
| 3.1 | **CL6VA010.000** | 12/00 - 05/03 | -32.9297736 | -71.5420224 | -32.9279124 | -71.5389669 |

**Summary**

| | | |
|---|---|---|
| **1** | **Overview** | **0** |
| **2** | **General** | **17** |
| **3** | **Coastal** | **22** |
| **4** | **Approach** | **32** |
| **5** | **Harbour** | **90** |
| **6** | **Berthing** | **2** |
| | ***Total*** | ***163*** |

# FINLAND (April 2004)

## ENC production

The current status of the released ENCs by the Finnish HO (FHO) and the areas where the production is going on can be seen on the Primar Stavanger Chart Catalogue and on the IHO web pages. See also the figures attached.

The routes to main ports have been covered by ENCs. This means mainly the ports along the coast of Gulf of Finland. There are totally 91 ENC cells available at usage bands general (4), coastal (5) and approach (82).

The production of the ENCs for routes to the secondary ports is going on. These are planned to be completed by the end of 2004. Thus the requirement of the Helsinki Commission Co-penhagen Declaration 2001 will be fulfilled.

The Finnish ENC cells are validated using dKart Inspector 4.0 SP3 and ENC Analyzer 2.1.4. Also two type approved ECDIS systems and three ECS's are used for visual verification and ENC tests.

The ENCs will be updated by a 10 days basis.

Finland considers these ENCs fully compliant to the SOLAS V chart carriage requirements.

**Fig. 1. ENC - Current status (April 2004)**

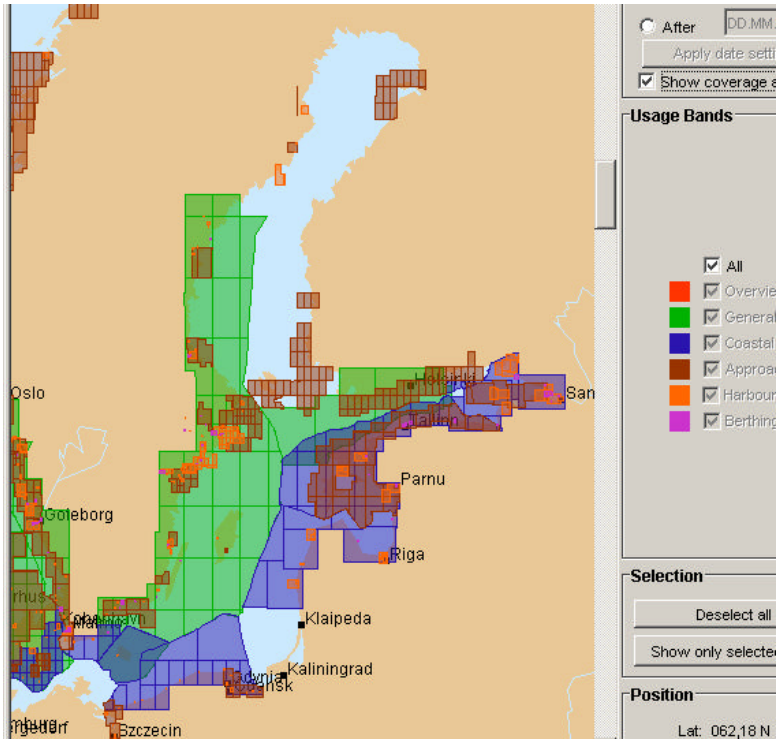
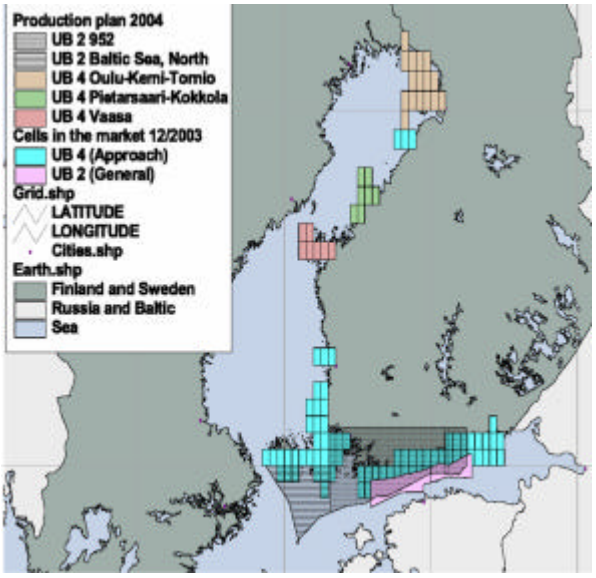



**Fig. 2. ENC - Production Plan for 2004, Finland**




**ENC Distribution**

The ENCs and their updates will be delivered by the Primar Stavanger.

ENC's for vessels (ice-breakers, research vessel etc.) sailing under the flag of the Finnish State Shipping Enterprise (FINSTAHSIP) are distributed by the FINSTASHIP. For time being the FHO distributes ENC's for the Finnish Navy. In the future, the Navy plans to distribute ENC's for Navy vessels.

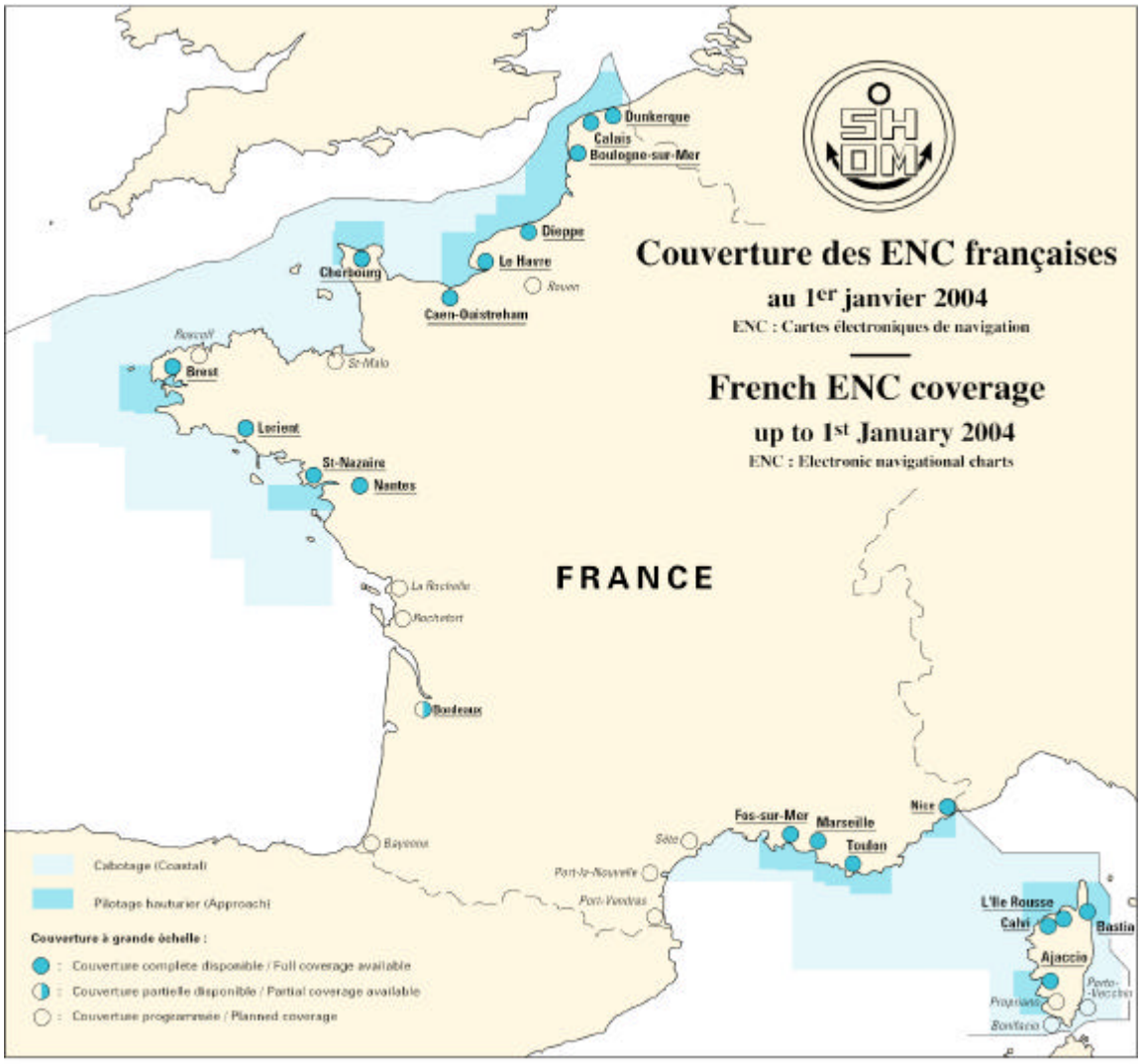
**System Development**

The Finnish HO has a production line by which both base ENCs and Paper Charts can be produced from a single Master Database (HIS). A development project for improved capabilities for sounding processing is in a testing phase. During the year 2004 will start new project to improve production of ENC updates.

Juha Korhonen
27 April 2004

# FRANCE (May 2004)

France has produced ENCs for international routes and main harbours in metropolitan France from the Belgium border to Nantes harbour, and in the Mediterranean Sea including Corsica. Coverage of Bordeaux harbour has also started. This represents about 82 % of passenger and goods traffic.




Further plans concern metropolitan France from Nantes harbour to the Spanish border including Bordeaux harbour, areas of historic and INT responsibilities for SHOM, as well as French overseas dependent territories.

Distribution (including ER) is still made via PRIMAR STAVANGER.

Production of EN updating existing ENCs has significantly increased in 2003.
Encoding outsourcing of some parts of the production started in December 2003.

# GERMANY (February 2004)

**National Report by Germany**

1. Germany has produced so far 43 cells as follows (see enclosure):
   - 26 harbours
   - 11 approaches
   - 5 coastal
   - 1 general

2. All cells are being regularly updated, and/or have been re-issued as New Editions (some already as the 6th edition).

3. All cells and updates are validated by the IC-ENC, and distributed through the VAR system or IC-ENC.

4. The best selling ENCs are the small and medium scale cells of the passages of the North Sea (German Bight).

5. Priority was initially with completing ENC coverage for the Baltic Sea, because of a number of groundings off the German Baltic Sea coast, and in order to comply with the deadline set in an action programme of the Helsinki Commission (responsible for the Marine Environment in the Baltic Sea).

6. The about 16 cells remaining to complete coverage of German waters mainly in the North sea are in production and will be ready by the end of 2004.

**Overview of cells covering German waters**
**(as of February 2004)**

| Rec | COUNTRY | ENC CELL | TITLE |
|---|---|---|---|
| 1 | Germany | DE221000 | German Bight |
| 2 | Germany | DE316001 | Waters north of Kiel |
| 3 | Germany | DE316002 | Mecklenburger Bucht |
| 4 | Germany | DE316003 | Waters west of Ruegen |
| 5 | Germany | DE316004 | Waters east of Ruegen |
| 6 | Germany | DE321002 | Waters south of Helgoland |
| 7 | Germany | DE416010 | Fiensburger Foerde |
| 8 | Germany | DE416020 | Eckemfoerder Bucht |
| 9 | Germany | DE416030 | Fehmarn Belt |
| 10 | Germany | DE416040 | Luebecker Bucht |
| 11 | Germany | DE416050 | Rostock Approach |
| 12 | Germany | DE416075 | Sassnitz Approach |
| 13 | Germany | DE416080 | Stralsund East Approach |
| 14 | Germany | DE421030 | Jade & Weser Approach |
| 15 | Germany | DE421040 | Elbe – Northern Part |
| 16 | Germany | DE421060 | Weser – Northern Part |
| 17 | Germany | DE421070 | Jade |
| 18 | Germany | DE516100 | Flensburg Harbour |
| 19 | Germany | DE516105 | Farensodde |
| 20 | Germany | DE516110 | Gluecksburg |
| 21 | Germany | DE516115 | Schausende |
| 22 | Germany | DE516120 | Langballigau |
| 23 | Germany | DE516200 | Kiel Harbour |
| 24 | Germany | DE516210 | Marina Lippe |
| 25 | Germany | DE516220 | Heiligenhafen |
| 26 | Germany | DE516240 | Burgstaaken Harbour |
| 27 | Germany | DE516260 | Grossenbrode Harbour |
| 28 | Germany | DE516270 | Groemitz Harbour |
| 29 | Germany | DE516280 | Neustadt Harbour |
| 30 | Germany | DE516290 | Niendorf Harbour |
| 31 | Germany | DE516300 | Luebeck harbours |
| 32 | Germany | DE516400 | Wismar Harbour |
| 33 | Germany | DE516410 | Timmendorf Harbour |
| 34 | Germany | DE516420 | Kirschdorf |
| 35 | Germany | DE516500 | Rostock Harbour |
| 36 | Germany | DE516650 | Darsser Ort |
| 37 | Germany | DE516700 | Sassnitz Ferry Harbour |
| 38 | Germany | DE516790 | Lohme |
| 39 | Germany | DE516800 | greifswald Harbours |
| 40 | Germany | DE516870 | Vierow |
| 41 | Germany | DE521420 | Cuxhaven |
| 42 | Germany | DE521600 | bremerhaven |
| 43 | Germany | DE521700 | Wilheimshaven |

# GREECE (February 2004)

**ENC Development in Greece**

The project for the development of ENCs and Updates, which cover the Greek area of responsibility, started on March 2001 and it's completion is estimated during the next three months.

After the first phase of the production, concerning the digitisation and transformation into
S-57 Ed. 3.1 format, the resultant dataset has been cut into cells to generate a seamless database for the different Usage Bands.

The cells scheming, which is harmonized to the WEND principles, has been finalized and the production progress is shown in the following table.

| | Total number of Cells | Issued but Not commercially available | Issued and commercially available |
|---|---|---|---|
| **General** | 2 | 0 | 2 |
| **Coastal** | 83 | 31 | 52 |
| **Approach** | 14 | 14 | 0 |
| **Harbour** | 49 | 49 | 0 |
| **Berthing** | 159 | 159 | 0 |

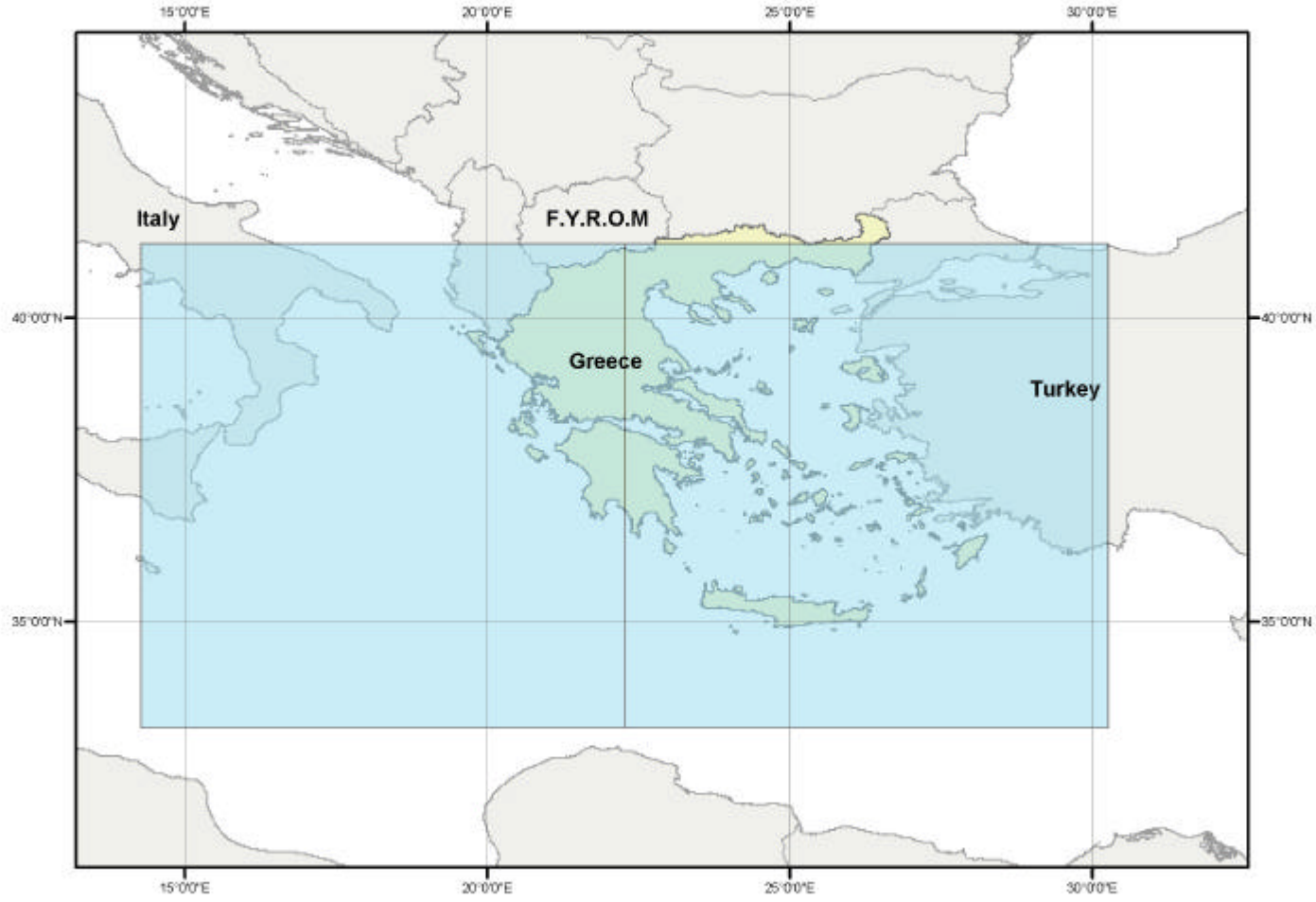
The Greek ENCs, are commercially available through IC-ENC and PRIMAR STAVANGER.

# Greek ENCs Commercially available

| NAVIGATIONAL PURPOSE | CELL NAME | S57 ED. | COMPILATION SCALE | LAT South | LAT North | LON West | LON East |
|---|---|---|---|---|---|---|---|
| General | GR2AF7TL | 3.1 | 350000 | 33 15.00 | 41 15.00 | 14 15.00 | 22 15.00 |
| | GR2AF7UH | 3.1 | 350000 | 33 15.00 | 41 15.00 | 22 15.00 | 30 15.00 |
| Coastal | GR3CF4IO | 3.1 | 180000 | 32 30.00 | 33 30.00 | 24 00.00 | 25 00.00 |
| | GR3CF4IS | 3.1 | 180000 | 32 30.00 | 33 30.00 | 25 00.00 | 26 00.00 |
| | GR3CF4IW | 3.1 | 180000 | 32 30.00 | 33 30.00 | 26 00.00 | 27 00.00 |
| | GR3CF4J0 | 3.1 | 180000 | 32 30.00 | 33 30.00 | 27 00.00 | 28 00.00 |
| | GR3CF4J4 | 3.1 | 180000 | 32 30.00 | 33 30.00 | 28 00.00 | 29 00.00 |
| | GR3CF8YC | 3.1 | 180000 | 33 30.00 | 34 30.00 | 21 00.00 | 22 00.00 |
| | GR3CF8YG | 3.1 | 180000 | 33 30.00 | 34 30.00 | 22 00.00 | 23 00.00 |
| | GR3CF8YK | 3.1 | 180000 | 33 30.00 | 34 30.00 | 23 00.00 | 24 00.00 |
| | GR3CF8YO | 3.1 | 180000 | 33 30.00 | 34 30.00 | 24 00.00 | 25 00.00 |
| | GR3CF8YS | 3.1 | 180000 | 33 30.00 | 34 30.00 | 25 00.00 | 26 00.00 |
| | GR3CF8YW | 3.1 | 180000 | 33 30.00 | 34 30.00 | 26 00.00 | 27 00.00 |
| | GR3CF8Z0 | 3.1 | 180000 | 33 30.00 | 34 30.00 | 27 00.00 | 28 00.00 |
| | GR3CF8Z4 | 3.1 | 180000 | 33 30.00 | 34 30.00 | 28 00.00 | 29 00.00 |
| | GR3CF8Z8 | 3.1 | 180000 | 33 30.00 | 34 30.00 | 29 00.00 | 30 00.00 |
| | GR3CF8ZC | 3.1 | 180000 | 33 30.00 | 34 30.00 | 30 00.00 | 31 00.00 |
| | GR3CFDE0 | 3.1 | 180000 | 34 30.00 | 35 30.00 | 18 00.00 | 19 00.00 |
| | GR3CFDE4 | 3.1 | 180000 | 34 30.00 | 35 30.00 | 19 00.00 | 20 00.00 |
| | GR3CFDE8 | 3.1 | 180000 | 34 30.00 | 35 30.00 | 20 00.00 | 21 00.00 |
| | GR3CFDEC | 3.1 | 180000 | 34 30.00 | 35 30.00 | 21 00.00 | 22 00.00 |
| | GR3CFDEG | 3.1 | 180000 | 34 30.00 | 35 30.00 | 22 00.00 | 23 00.00 |
| | GR3CFDEK | 3.1 | 90000 | 34 30.00 | 35 30.00 | 23 00.00 | 24 00.00 |
| | GR3CFDEO | 3.1 | 90000 | 34 30.00 | 35 30.00 | 24 00.00 | 25 00.00 |
| | GR3CFDES | 3.1 | 90000 | 34 30.00 | 35 30.00 | 25 00.00 | 26 00.00 |
| | GR3CFDEW | 3.1 | 180000 | 34 30.00 | 35 30.00 | 26 00.00 | 27 00.00 |
| | GR3CFDF0 | 3.1 | 180000 | 34 30.00 | 35 30.00 | 27 00.00 | 28 00.00 |
| | GR3CFDF4 | 3.1 | 180000 | 34 30.00 | 35 30.00 | 28 00.00 | 29 00.00 |
| | GR3CFDF8 | 3.1 | 180000 | 34 30.00 | 35 30.00 | 29 00.00 | 30 00.00 |
| | GR3CFDFC | 3.1 | 180000 | 34 30.00 | 35 30.00 | 30 00.00 | 31 00.00 |

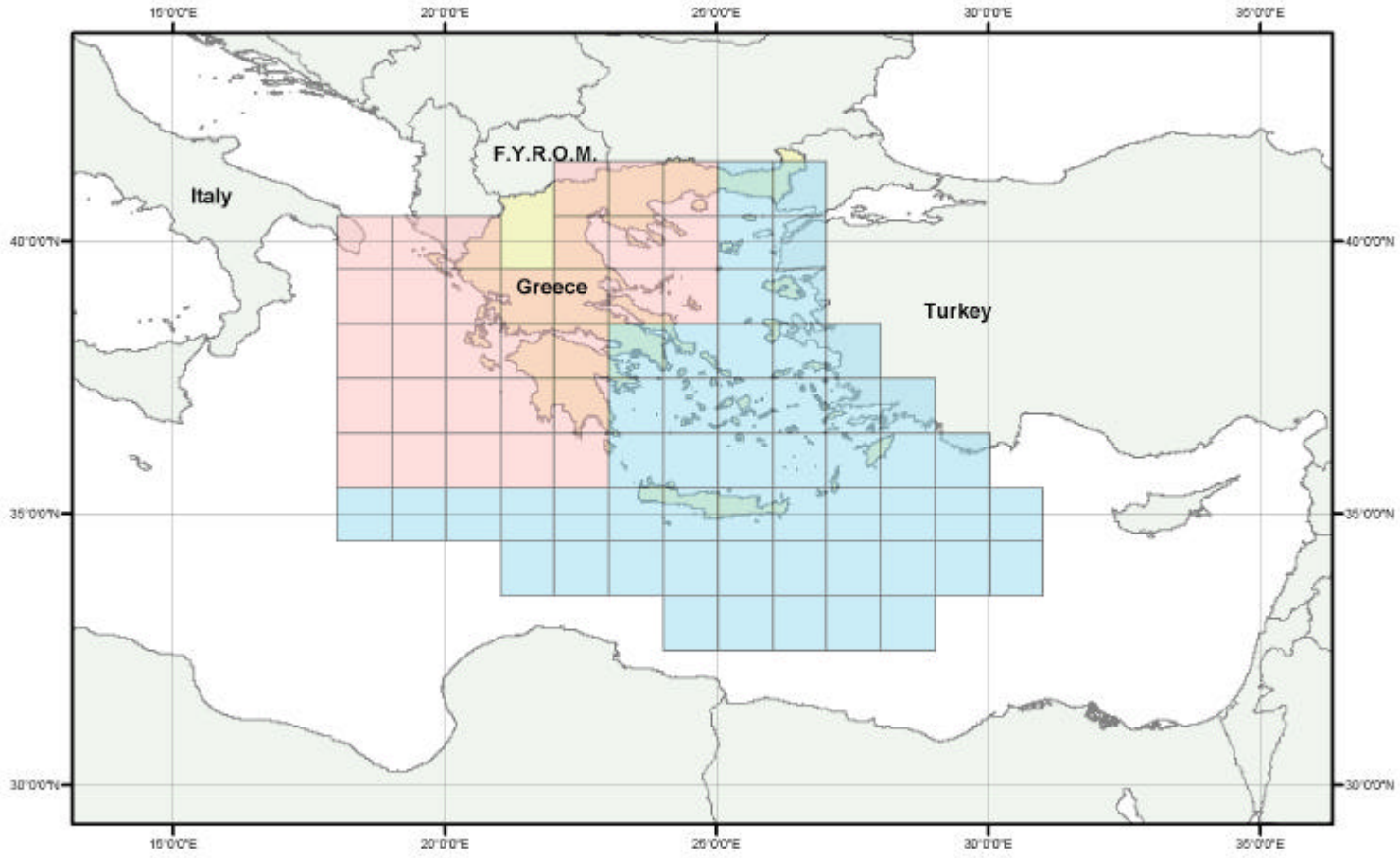
| NAVIGATIONAL PURPOSE | CELL NAME | S57 ED. | COMPILATION SCALE | LAT South | LAT North | LON West | LON East |
|---|---|---|---|---|---|---|---|
| | GR3CFHUK | 3.1 | 90000 | 35 30.00 | 36 30.00 | 23 00.00 | 24 00.00 |
| | GR3CFHUO | 3.1 | 90000 | 35 30.00 | 36 30.00 | 24 00.00 | 25 00.00 |
| | GR3CFHUS | 3.1 | 90000 | 35 30.00 | 36 30.00 | 25 00.00 | 26 00.00 |
| | GR3CFHUW | 3.1 | 90000 | 35 30.00 | 36 30.00 | 26 00.00 | 27 00.00 |
| | GR3CFHV0 | 3.1 | 90000 | 35 30.00 | 36 30.00 | 27 00.00 | 28 00.00 |
| | GR3CFHV4 | 3.1 | 90000 | 35 30.00 | 36 30.00 | 28 00.00 | 29 00.00 |
| | GR3CFHV8 | 3.1 | 90000 | 35 30.00 | 36 30.00 | 29 00.00 | 30 00.00 |
| | GR3CFMAK | 3.1 | 90000 | 36 30.00 | 37 30.00 | 23 00.00 | 24 00.00 |
| | GR3CFMAO | 3.1 | 90000 | 36 30.00 | 37 30.00 | 24 00.00 | 25 00.00 |
| | GR3CFMAS | 3.1 | 90000 | 36 30.00 | 37 30.00 | 25 00.00 | 26 00.00 |
| | GR3CFMAW | 3.1 | 90000 | 36 30.00 | 37 30.00 | 26 00.00 | 27 00.00 |
| | GR3CFMB0 | 3.1 | 90000 | 36 30.00 | 37 30.00 | 27 00.00 | 28 00.00 |
| | GR3CFMB4 | 3.1 | 90000 | 36 30.00 | 37 30.00 | 28 00.00 | 29 00.00 |
| | GR3CFQQK | 3.1 | 90000 | 37 30.00 | 38 30.00 | 23 00.00 | 24 00.00 |
| | GR3CFQQO | 3.1 | 90000 | 37 30.00 | 38 30.00 | 24 00.00 | 25 00.00 |
| | GR3CFQQS | 3.1 | 90000 | 37 30.00 | 38 30.00 | 25 00.00 | 26 00.00 |
| | GR3CFQQW | 3.1 | 90000 | 37 30.00 | 38 30.00 | 26 00.00 | 27 00.00 |
| | GR3CFQR0 | 3.1 | 90000 | 37 30.00 | 38 30.00 | 27 00.00 | 28 00.00 |
| | GR3CFV6S | 3.1 | 90000 | 38 30.00 | 39 30.00 | 25 00.00 | 26 00.00 |
| | GR3CFV6W | 3.1 | 90000 | 38 30.00 | 39 30.00 | 26 00.00 | 27 00.00 |
| | GR3CFZMS | 3.1 | 90000 | 39 30.00 | 40 30.00 | 25 00.00 | 26 00.00 |
| | GR3CFZMW | 3.1 | 90000 | 39 30.00 | 40 30.00 | 26 00.00 | 27 00.00 |
| | GR3CG42S | 3.1 | 90000 | 40 30.00 | 41 30.00 | 25 00.00 | 26 00.00 |
| | GR3CG42W | 3.1 | 90000 | 40 30.00 | 41 30.00 | 26 00.00 | 27 00.00 |

# Greek ENCs
# Navigational Category GENERAL




(3) Issued and commercialy available

# Greek ENCs
# Navigational Category COASTAL



# NETHERLANDS (February 2004)

## Dutch ENC Production Status

Early 2000 NLHO started ENC-production with the focus on the usage band "coastal" for the NL continental shelf and the usage bands "approach" and "harbour" for the Europoort area; bearing in mind that already a complete RNC (ARCS) coverage has been established in close co-operation with UKHO.

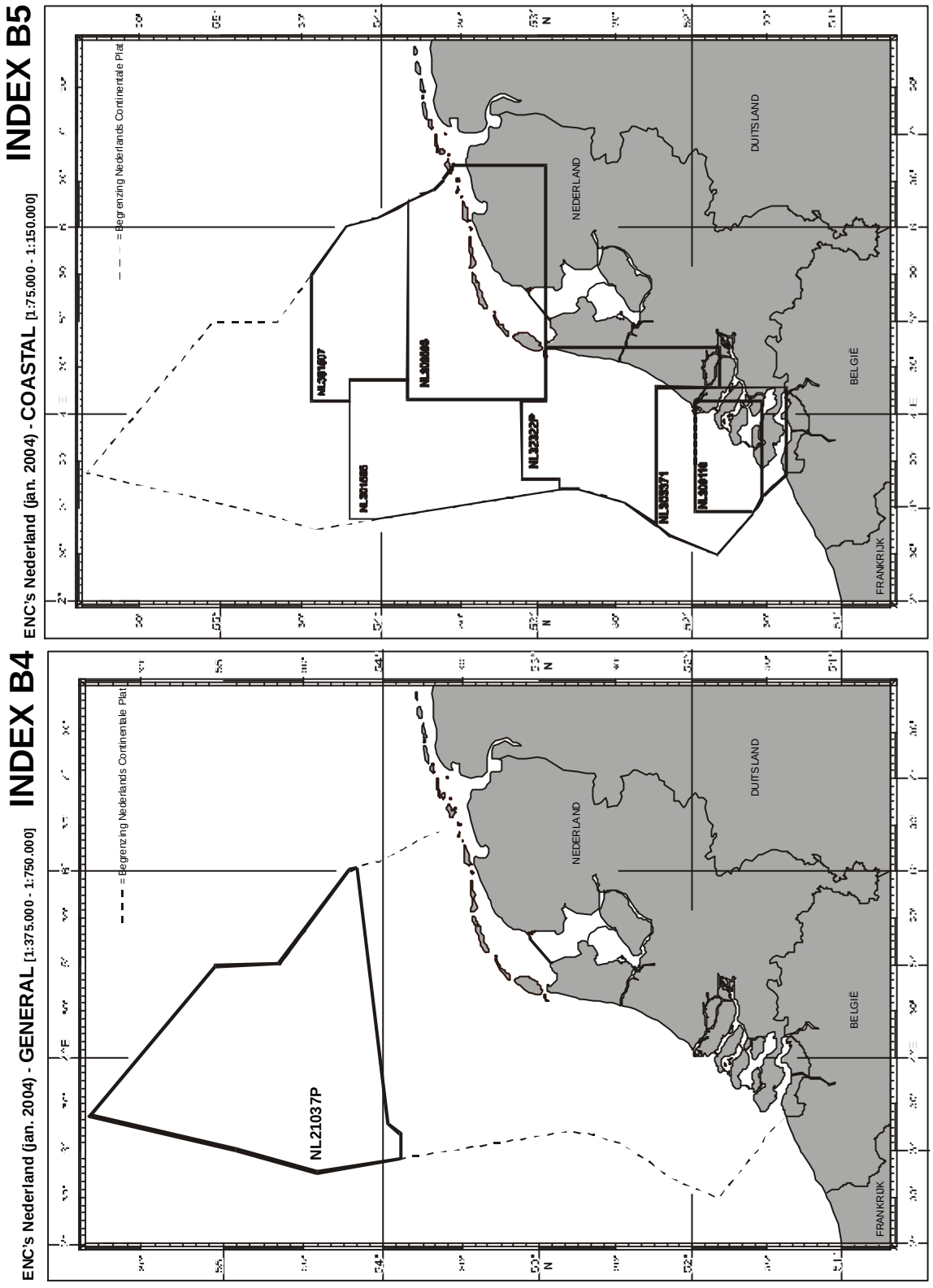
At present the Netherlands area of responsibility is covered with sufficient ENCs in the usage band "coastal". Also Rotterdam/Europoort, Flushing, Terneuzen, Den Helder and river Westerschelde (Antwerpen (BE) excluded) are covered in the usage bands "approach" and "harbour" (see views). For the short term especially the realisation of ENC consistency improvements, as reported by IC-ENC, are scheduled; for the meantime publication of new ENCs are postponed (other than the maintenance of the already released ENCs). As indicated by the SHARED-programme (Task Group 2-MACHC ECWG) ENC production for the Caribbean Area will start late 2004; ENC production will focus on the coastal area Aruba-Curacao-Bonaire-Venezuela and approaches to Willemstad Curacao.

The UKHO initiative to support the North Sea ENC production for the smaller scale usage bands "general" and "overview" is highly appreciated; within one year the Southern North Sea will become available in all usage bands. Within two years the approaches of IJmuiden/Amsterdam and Delfzijl/Emden will become available as ENC. From 2007 onwards there will be also ENCs available of the inland waters navigable by SOLAS-shipping and Caribbean Sea (in addition to the above mentioned approaches); these waters are already available as RNC (ARCS).

From 2007 onwards there will be an increasing difference in content of ENCs and paper nautical charts. ENCs are meant to become a more and more representative presentation of the actual and dynamic true maritime environment with higher density of information (e.g. 1 m. depth contour intervals and detailed updates). The paper nautical chart will stay relatively static (but still sufficient for safe navigation together with other nautical publications), bearing in mind that the Print on Demand and Pint on Board developments are a step forward in the direction to the content of this future ENC.

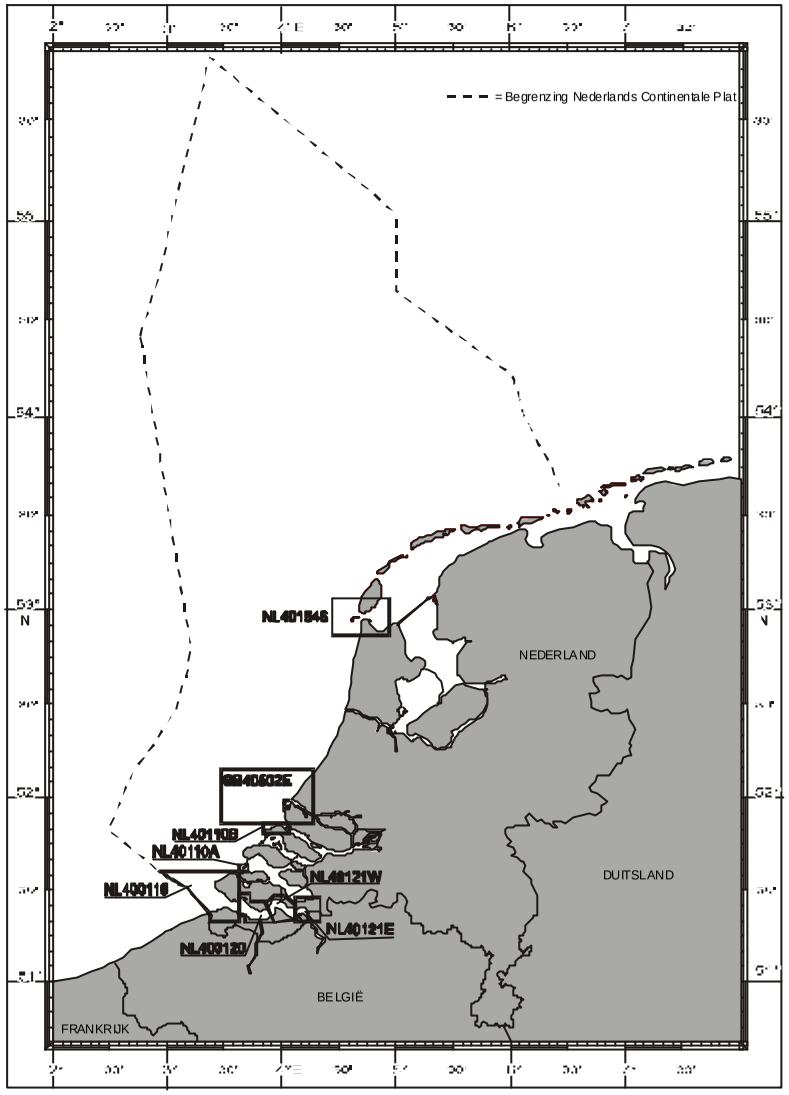
Beside the production of ENCs, there is also an increasing exchange of S57-data with especially the port authorities of Rotterdam/Europoort and Schelde-area (gridded bathymetry, obstructions, navaids, etc); this facilitates an efficient co-operation in favour of ENC-production progress and initiatives like Innovative Portable Pilot Assistance (European Community funding: IPPA) and Inland ECDIS.

**NL DUTCH VIEWS ENC UNITS**



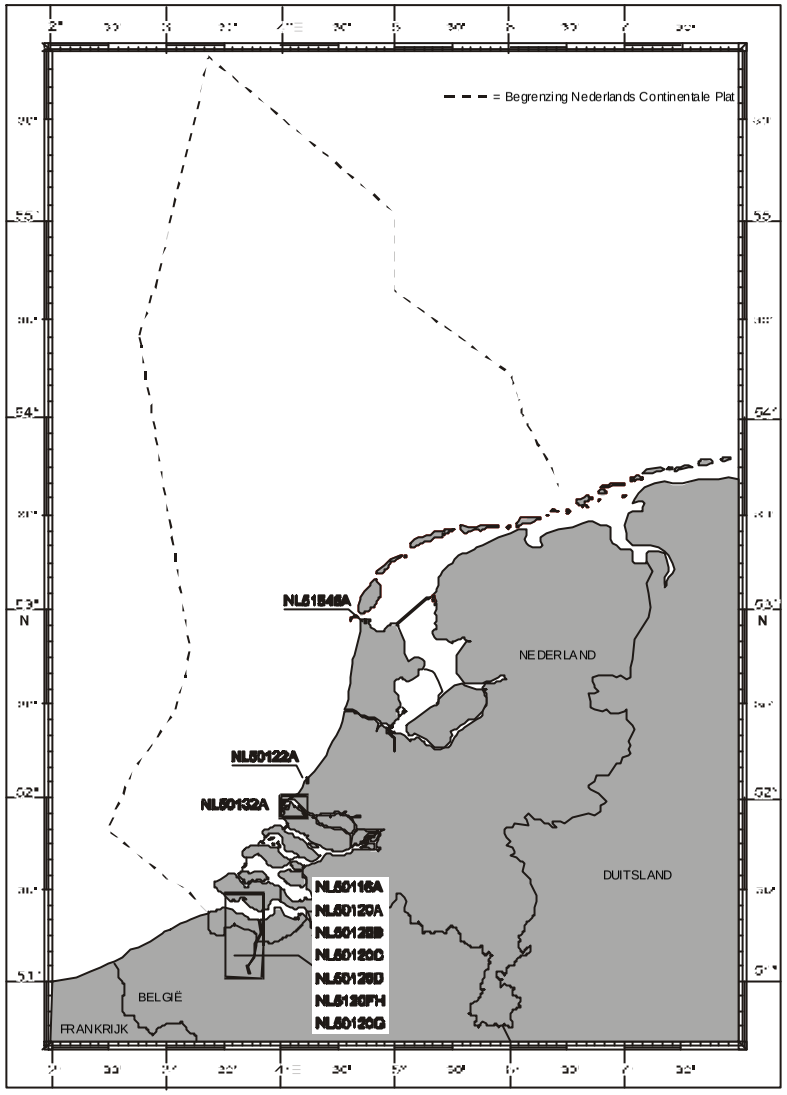
ENC's Nederland (jan. 2004) - **APPROACH** [1:30.000 - 1: 60.000]

# INDEX B6




ENC's Nederland (jan. 2004) - **HARBOUR** [1:10.000 - 25.000]

# INDEX B7




CHRIS16-8.2B

**Netherlands units**

## GENERAL & COASTAL USAGE BANDS

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL2001 | Dutch North Sea | NL21037P | Doggersbank to East Friesland TSS |

## COASTAL USAGE BAND

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL3001 | Dutch Coast - Friesland TSS | NL301505 | West Friesland TSS/Off Botney Ground |
| | | NL301507 | Friesland Junction/East Friesland TSS |

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL3002 | Dutch Coast - Texel to Westerems | NL302593 | Off Texel TSS to Westerems |

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL3003 | Dutch Coast - Amsterdam Region | NL32322P | Noordwijk to Off Texel TSS |

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL3004 | Dutch Coast - Europoort Region | NL300110 | Westkapelle to Maasvlakte |
| | | NL303371 | North Hinder / Eurogeul / Wester Schelde |
| | | NL40110A | Approaches to Roompotsluis |
| | | NL40110B | Approaches from Slijkgat to Stellendam |

# APPROACH & HARBOUR USAGE BANDS

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL4001 | Dutch Approaches - Den Helder | NL401546 | Den Helder Roads/Zeegat Texel |
| | | NL51546A | Den Helder |

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL4002 | Dutch Approaches - Scheveningen | GB40502E | Approaches to Europoort |
| | | NL50122A | Scheveningen Harbour |

| Unit Name | Unit Title | ENC Cells | Cell Titles |
|---|---|---|---|
| NL4003 | Dutch Approaches - Vlissingen | NL400116 | Approaches to Westerschelde |
| | | NL400120 | Wschelde Vlissingen Terneuzen |
| | | NL40121E | Wschelde Baalhoek Antwerpen |
| | | NL40121W | Wschelde Terneuzen Baalhoek |
| | | NL50116A | Flushing (Vlissingen) |
| | | NL50120A | Breskens |
| | | NL50120B | Braakmanhaven |
| | | NL50120C | Terneuzen Anchorage |
| | | NL50120D | Kanaal Terneuzen-Gent |
| | | NL5120FH | Terneuzen |
| | | NL50120G | Sloehaven (Vlissingen Oost) |

# NEW ZEALAND (February 2004)

**New Zealand Electronic Navigational Chart (ENC) Update.**

Land Information New Zealand (LINZ) will produce an ENC of each chart in its folio, including INT charts where NZ is the producer nation. New survey data gathered from shipping lane surveys will be included in ENCs on the completion of each survey.

The capture process will be carried out in accordance with an ENC priority list and the ENC requirements which are outlined in the LINZ ENC specification. A ZOC project is due to commence shortly and will see a consistent evaluation carried out on every survey currently used on a LINZ chart. This 18 month project will provide the ZOC values for the LINZ ENCs and other internal processes.

# PORTUGAL (April 2004)

**National Report**

Early 1999 IHPT started ENC production, which covers the Portuguese area of responsibility. Portugal has produced so far 41 cells as follows:

- 19 harbours
- 7 approaches
- 9 coastal
- 4 general
- 2 overview

The total number of cells is about 97;

For ENC production IHPT capture data from paper charts and they have exactly the same scheme;

We are testing and implementing a new production line by which both base ENCs and Paper Charts can be produced from a single database HPD (Hydrographic Product Database);

All ENCs are updated bi-weekly and have or will be re-issued as New Editions;

For the short term, especially the termination of validity of S57 edition 3.0 and the realization of ENC consistency improvements, as reported by IC-ENC, are scheduled; publication of new ENCs is postponed;

IHPT uses for QC/QA of ENCs and updates dKart Inspector 4.0 SP3 and ENC Analyzer 2.1.4; also two type approved ECDIS systems and one ECS are used for ENC tests;

All ENCs and updates are validated by IC-ENC, and distributed by IC-ENC trough the VAR system;

IHPT distribute its ENCs for the vessels of Portuguese Navy;

The current status of released ENCs by IHPT can be seen on the IHB and IC-ENC web pages.

# RUSSIAN FEDERATION (March 2004)

**List of ENCs (S-57, v3.0) issued by HDNO of RF MD**

| Nos (charts) | No. (cells) | Charts | ENC cells RU*****.* |
|---|---|---|---|
| **BARENTS SEA** | | | |
| 1. | 1. | 10100 | 2OIJ00 |
| 2. | 2. | 11114 | 2?OL50 |
| 3. | 3. | 11115 | 2OOM90 |
| 4. | 4. | 11116 | 2P8LT0 |
| 5. | 5. | 11117 | 2P8KE0 |
| 6. | 6. | 11118 | 2PGL50 |
| 7. | 7. | 11129 | 2OON90 |
| 8. | 8. | 11163 | 2P2M10 |
| 9. | 9. | 12000 | 3ORL20 |
| 10. | 10. | 12001 | 3OPLE0 |
| 11. | 11. | 12002 | 3ONLL0 |
| 12. | 12. | 12003 | 3OMLT0 |
| 13. | 13. | 12011 | 3ONMB0 |
| 14. | 14. | 12012 | 3OKMD0 |
| 15. | 15. | 12013 | 3OQMR0 |
| 16. | 16. | 12014 | 3ONMN0 |
| 17. | 17. | 12015 | 3OON60 |
| 18. | 18. | 12016 | 3OPNJ0 |
| 19. | 19. | 12017 | 3OQME0 |
| 20. | 20. | 12100 | 3OSKP0 |
| 21. | 21. | 12210 | 3PSMA9 (1) |
| 22. | 22. | 12211 | 3PSNL9 (5) |
| 23. | | 12212 | |
| 24. | 23. | 12213 | 3Q2NL9 (4) |
| 25. | | 12214 | |
| 26. | 24. | 12215 | 3PSMS9 (2) |
| 27. | | 12216 | |
| 28. | 25. | 12217 | 3Q2MS9 (3) |
| 29. | 26. | 13003 | 3OTL50 |
| 30. | 27. | 13004 | 3ORL50 |
| 31. | 28. | 13005 | 3ORLC0 |
| 32. | 29. | 13006 | 3OQLH0 |
| 33. | 30. | 13007 | 3OPLL0 |
| 34. | 31. | 13008 | 3OOLO0 |
| 35. | 32. | 15005 | 5ORL90 |
| 36. | 33. | 15006 | 5ORL80 |
| 37. | 34. | 15013 | 5ORLB0 |
| **WHITE SEA** | | | |
| 38. | 35. | 10306 | 2OBL40 |
| 39. | 36. | 12005 | 3OHM10 |
| 40. | 37. | 12006 | 3OGLN0 |
| 41. | 38. | 12007 | 3ODLJ0 |
| 42. | 39. | 12008 | 3OFLC0 |
| 43. | 40. | 12009 | 3OBLC0 |
| 44. | 41. | 14011 | 3OILD0 |
| 45. | 42. | 14020 | 3OIL80 |
| 46. | 43. | 14042 | 3OJL60 |
| 47. | 44. | 16004 | 4ODLR0 |
| 48. | 45. | 16010 | 5OELF0 |
| 49. | 46. | 16011 | 5OFLH0 |
| 50. | 47. | 16012 | 4OBLL0 |
| 51. | 48. | 16013 | 5ODLE0 |
| | 49. | 16013-A | 6ODLE0 |
| | 50. | 16013-? | 6ODLE1 |

| Nos (chars) | No (cells) | Charts | ENC cells RU***** |
|---|---|---|---|
| | 51. | 16013-? | 6ODLE3 |
| | 52. | 16013-? | 6ODLE2 |
| 52. | 53. | 16015 | 5OHLD0 |
| 53. | 54. | 16016 | 5OELO0 |
| 54. | 55. | 16017 | 5ODLN0 |
| 55. | 56. | 16018 | 4OELG0 |
| 56. | 57. | 16021 | 5OKL70 |
| | 58. | 16021-? | 6OKL80 |
| 57. | 59. | 16022 | 5OKL71 |
| 58. | 60. | 16024 | 4OHMA0 |
| 59. | 61. | 16026 | 4OKM30 |
| 60. | 62. | 16027 | 5OJMC0 |
| 61. | 63. | 16028 | 5ONMA0 |
| 62. | 64. | 16029 | 5ONMA1 |
| 63. | 65. | 16040 | 4OCLF0 |
| 64. | 66. | 19020 | 6OJLC0 |
| 65. | 67. | 19028 | 5OJM70 |
| 66. | 68. | 19042 | 5OLL60 |
| **KARA SEA** | | | |
| 67. | 69. | 11122 | 2PDNC0 |
| 68. | 70. | 11123 | 2PKMH0 |
| 69. | 71. | 11124 | 2PGoo0 |
| 70. | 72. | 11126 | 2P5NE0 |
| 71. | 73. | 11127 | 2P8ON0 |
| 72. | 74. | 12305 | 3P0NJ0 |
| 73. | 75. | 12306 | 3OSNS0 |
| 74. | 76. | 12307 | 3OSO20 |
| 75. | 77. | 12308 | 3OOOD0 |
| 76. | 78. | 12309 | 3OSOC0 |
| 77. | 79. | 12310 | 3P2OB0 |
| 78. | 80. | 12311 | 3P5OG0 |
| 79. | 81. | 12312 | 3P7OP0 |
| 80. | 82. | 12317 | 3OIOR0 |
| 81. | 83. | 12318 | 3OMPI0 |
| 82. | 84. | 12320 | 3P2PE0 |
| 83. | 85. | 12321 | 3P6PD0 |
| 84. | 86. | 12322 | 3PAPD0 |
| 85. | 87. | 12324 | 3PHPG0 |
| 86. | 88. | 12325 | 3PGP50 |
| 87. | 89. | 12326 | 3PKPD0 |
| 88. | 90. | 12327 | 3P9PR0 |
| 89. | 91. | 12328 | 3PAQ90 |
| 90. | 92. | 12329 | 3PEQE0 |
| 91. | 93. | 12330 | 3PGQK0 |
| 92. | 94. | 12331 | 3PHR70 |
| 93. | 95. | 12332 | 3PiRM0 |
| 94. | 96. | 12333 | 3PLRo0 |
| 95. | 97. | 12338 | 3PoRG0 |
| 96. | 98. | 12339 | 3PPQP0 |
| 97. | 99. | 12340 | 3PMR90 |
| 98. | 100. | 12341 | 3PKR50 |
| 99. | 101. | 12342 | 3PEPQ0 |
| 100. | 102. | 12343 | 3PHQ20 |
| 101. | 103. | 12344 | 3PjQi0 |
| 102. | 104. | 12345 | 3PKQ00 |
| 103. | 105. | 12346 | 3PMQM0 |
| 104. | 106. | 12347 | 3PMQ40 |
| 105. | 107. | 12348 | 3PPQ50 |
| 106. | 108. | 12349 | 3PMPK0 |

| Nos (chars) | No (cels) | Charts | ENC cells RU***** |
|---|---|---|---|
| 107. | 109. | 12350 | 3PRP80 |
| 108. | 110. | 12351 | 3Q0PA0 |
| 109. | 111. | 13329 | 3P6P60 |
| 110. | 112. | 13330 | 3P4P50 |
| 111. | 113. | 13331 | 3P2P50 |
| 112. | 114. | 13332 | 3P1P60 |
| 113. | 115. | 13333 | 3OTP50 |
| 114. | 116. | 13334 | 3ORP60 |
| 115. | 117. | 13335 | 3OPP70 |
| 116. | 118. | 13336 | 3ONP70 |
| 117. | 119. | 13337 | 3OPPC0 |
| 118. | 120. | 13338 | 3OLP70 |
| 119. | 121. | 13348 | 3P5PS0 |
| 120. | 122. | 15383 | 4P5Q70 |
| 121. | 123. | 15384 | 4P4Q80 |
| 122. | 124. | 15385 | 4P3Q70 |
| 123. | 125. | 15386 | 4P2Q80 |
| 124. | 126. | 15387 | 4P0Q80 |
| 125. | 127. | 15388 | 4P0Q70 |
| 126. | 128. | 15389 | 4OTQ90 |
| 127. | 129. | 15390 | 4OSQA0 |
| 128. | 130. | 15391 | 4OSQE0 |
| 129. | 131. | 15392 | 4ORQG0 |
| 130. | 132. | 15393 | 4OQQG0 |
| 131. | 133. | 15394 | 4OOQH0 |
| 132. | 134. | 15395 | 4OMQI0 |
| | 135. | 15395-A | 5OOQJ0 |
| 133. | 136. | 18313 | 5OSNT0 |
| 134. | 137. | 18318 | 5OTO30 |
| 135. | 138. | 18376 | 5PAQ09 |
| 136. | | 18378 | |
| **LAPTEV SEA** | | | |
| 137. | 139. | 12334 | 3PMS90 |
| 138. | 140. | 12335 | 3PPS30 |
| 139. | 141. | 12336 | 3Q0RE0 |
| 140. | 142. | 12337 | 3Q0QQ0 |
| 141. | 143. | 12400 | 3PJSC0 |
| 142. | 144. | 12401 | 3PJSo0 |
| 143. | 145. | 12402 | 3PHT50 |
| 144. | 146. | 12403 | 3PDT50 |
| 145. | 147. | 12404 | 3PASo0 |
| 146. | 148. | 12405 | 3PAT80 |
| 147. | 149. | 12406 | 3P8To0 |
| 148. | 150. | 12407 | 3P9UD0 |
| 149. | 151. | 12408 | 3PCUQ0 |
| 150. | 152. | 12409 | 3P7UQ0 |
| 151. | 153. | 12410 | 3P2UP0 |
| 152. | 154. | 12411 | 3P3V70 |
| 153. | 155. | 12412 | 3P3VK0 |
| 154. | 156. | 12413 | 3P8V90 |
| 155. | 157. | 12414 | 3PCV80 |
| 156. | 158. | 12415 | 3PGV80 |
| **EAST-SIBERIAN SEA** | | | |
| 157. | 159. | 12416 | 3PGVP0 |
| 158. | 160. | 12417 | 3PFWb0 |
| 159. | 161. | 12418 | 3PDX10 |
| 160. | 162. | 12419 | 3PDWF0 |
| 161. | 163. | 12420 | 3PbVP0 |

| Nos (chars) | Nos (cells) | Charts | ENC cells RU***** |
|---|---|---|---|
| 162. | 164. | 12421 | 3P7VS0 |
| 163. | 165. | 12422 | 3P6W90 |
| 164. | 166. | 12423 | 3P2WR0 |
| 165. | 167. | 12424 | 3P2X90 |
| 166. | 168. | 12425 | 3P1Xj0 |
| 167. | 169. | 12426 | 3oSXS0 |
| 168. | 170. | 12427 | 3oSYb0 |
| 169. | 171. | 12428 | 3oQYN0 |
| 170. | 172. | 12429 | 3oRZ60 |
| 171. | 173. | 12430-E | 3P0ZM0 |
| | 174. | 12430-W | 3P00T0 |
| **CHUKCHI SEA** | | | |
| 172. | 175. | 12431-E | 3ooZo0 |
| | 176. | 12431-W | 3oo0T0 |
| 173. | 177. | 12432 | 3oJ0M0 |
| 174. | 178. | 12433 | 3oH0B0 |
| 175. | 179. | 12434 | 3oo0P0 |
| 176. | 180. | 12435 | 3oo070 |
| 177. | 181. | 12436 | 3oS060 |
| 178. | 182. | 12437 | 3oT0N0 |
| 179. | 183. | 12438 | 3P30N0 |
| **BALTIC SEA** | | | |
| | | Gulf of Finland | |
| 180. | 184. | 23000 | 3NTKQ0 |
| 181. | 185. | 23001 | 3NTKM0 |
| 182. | 186. | 23020 | 3NSSK0 |
| 183. | 187. | 23070 | 3NSKI0 |
| 184. | 188. | 25001 | 4NTKQ0 |
| 185. | 189. | 25002 int 1262 | 5NTKT0 |
| 186. | 190. | 25003 | 5NTKT2 |
| | 191. | 25003-? | 6O0KT0 |
| 187. | 192. | 25004 int 1261 | 5NTKS0 |
| 188. | 193. | 25005 | 5O1KP0 |
| 189. | 194. | 25009 | 5O0KO0 |
| 190. | 195. | 25010 | 5O1KO0 |
| 191. | 196. | 25012 | 5NSKO0 |
| | 197. | 25012-? | 6NTKP0 |
| 192. | 198. | 25053 | 4NTK P0 |
| 193. | 199. | 25054 | 4NTKN0 |
| 194. | 200. | 25055 | 4NTKK0 |
| 195. | 201. | 25056 | 4NTKO0 |
| 196. | 202. | 27045 | 5NTL09 |
| 197. | | 27047 | |
| 198. | | 28030 | |
| 199. | 203. | 27056 | 6O0KP0 |
| 200. | 204. | 28001 | 6NTKT3 |
| 201. | 205. | 28002 | 6NTKT4 |
| 202. | 206. | 28003 | 5O0KT0 |
| 203. | 207. | 28004 | 6NTKT0 |
| 204. | 208. | 28005 | 6NTKT1 |
| 205. | 209. | 28006 | 5NTKT1 |
| 206. | 210. | 28007 int 1257 | 5O1KP1 |
| 207. | 211. | 28010 int 1259 | 5O2KP0 |
| 208. | 212. | 28011 int 1260 | 6O2KQ0 |
| 209. | 213. | 28020 | 5NTKN0 |
| 210. | 214. | 28057 | 5NTKO0 |
| 211. | 215. | 28058 | 5O1KN0 |
| | | Gulf of Kaliningrad | |

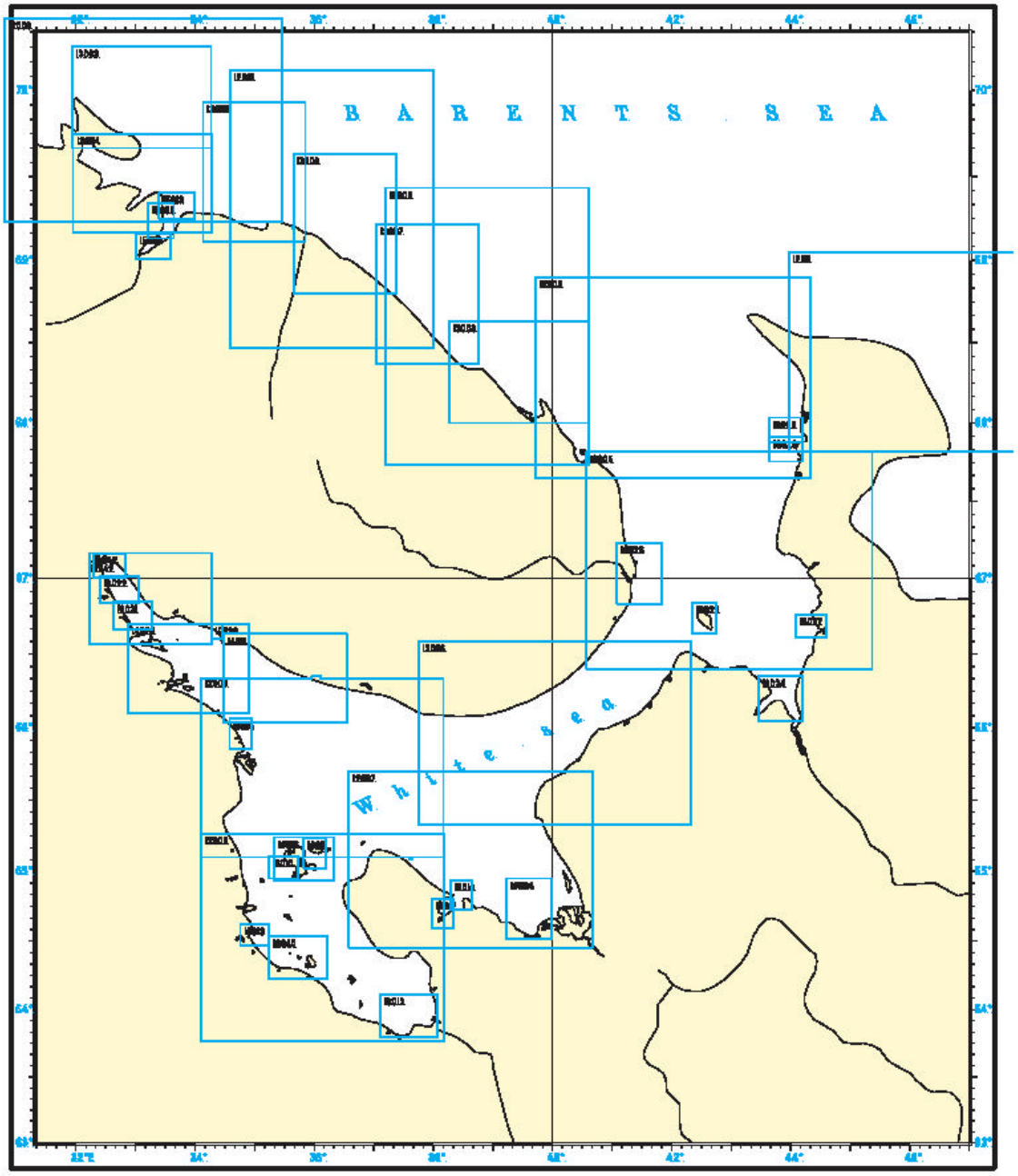
| Nos (char s) | No (cel s) | Charts | ENC cells RU***** |
|---|---|---|---|
| | | (Kaliningradskiy z - liv) | |
| 212. | 216. | 25051 | 4NDJS0 |
| | 217. | 25051-? | 5NDK00 |
| | 218. | 25051-? | 5NDJT0 |
| 213. | 219. | 27001 | 6NDJT1 |
| 214. | 220. | 27002 | 6NDJT0 |
| 215. | 221. | 27003 | 6NDK00 |
| 216. | 222. | 27004 | 6NEK00 |
| 217. | 223. | 27005 | 6NEK01 |
| 218. | 224. | 27006 | 6NEK10 |
| **Lake Ladoga (Ladozhskoye ozero)** | | | |
| 219. | 225. | 23030 | 3NTL20 |
| 220. | 226. | 23031 | 3O1L00 |
| 221. | 227. | 23032 | 3O2KT0 |
| | 228. | 23032-A | 6O4L21 |
| | 229. | 23032-? | 6O4L22 |
| 222. | 230. | 23033 | 3O2L20 |
| 223. | 231. | 23034 | 3O1L50 |
| 224. | 232. | 25064 | 4O0L20 |
| 225. | 233. | 25067 | 4NTL30 |
| 226. | 234. | 25068 | 4O0L30 |
| 227. | 235. | 25069 | 4O0L60 |
| 228. | 236. | 25070 | 4O1L70 |
| 229. | 237. | 25071 | 4O2L60 |
| 230. | 238. | 25072 | 5O2L10 |
| 231. | 239. | 25073 | 4O3L70 |
| 232. | 240. | 25074 | 4O3L30 |
| | 241. | 25074-? | 5O4L30 |
| 233. | 242. | 25075 | 5O4L10 |
| | 243. | 25075-? | 6O4L20 |
| 234. | 244. | 28070 | 6NTL20 |
| 235. | 245. | 28071 | 5NTL30 |
| 236. | 246. | 28072-? | 6O3L00 |
| | 247. | 28072-? | 6O1L10 |
| 237. | 248. | 28073 | 5O3K20 |
| 238. | 249. | 28074 | 6O3KT0 |
| 239. | 250. | 28075 | 5O3L00 |
| 240. | 251. | 28076 | 6O4L00 |
| 241. | 252. | 28077 | 6O3L70 |
| 242. | 253. | 28078 | 6O2L70 |
| 243. | 254. | 28079 | 5O1L70 |
| | 255. | 28079-? | 6O1L70 |
| 244. | 256. | 28080 | 6O2L71 |
| 245. | 257. | 28081 | 6O0L60 |
| 246. | 258. | 28082 | 6O0L70 |
| 247. | 259. | 28083 | 5O0L70 |
| **Lake Onega (Onezhskoye ozero)** | | | |
| *248.* | *260.* | *23040* | *3OPLF0* |
| *249.* | *261.* | *23041* | *3O4LD0* |
| *250.* | *262.* | *23042* | *3O5LC0* |
| *251.* | *263.* | *23043* | *3O7LC0* |
| *252.* | *264.* | *25060* | *4O2LG0* |
| *253.* | *265.* | *25061* | *4O3LF0* |
| | *266.* | *25061-?* | *6O3LG0* |
| 254. | 267. | 25062 | 4O4LD0 |
| *255.* | *268.* | *25063* | *4O5LC0* |
| *256.* | *269.* | *25065* | *4O3LH0* |
| *257.* | *270.* | *25066* | *4O4LG0* |
| 258. | 271. | 25077 | 5O5LH0 |

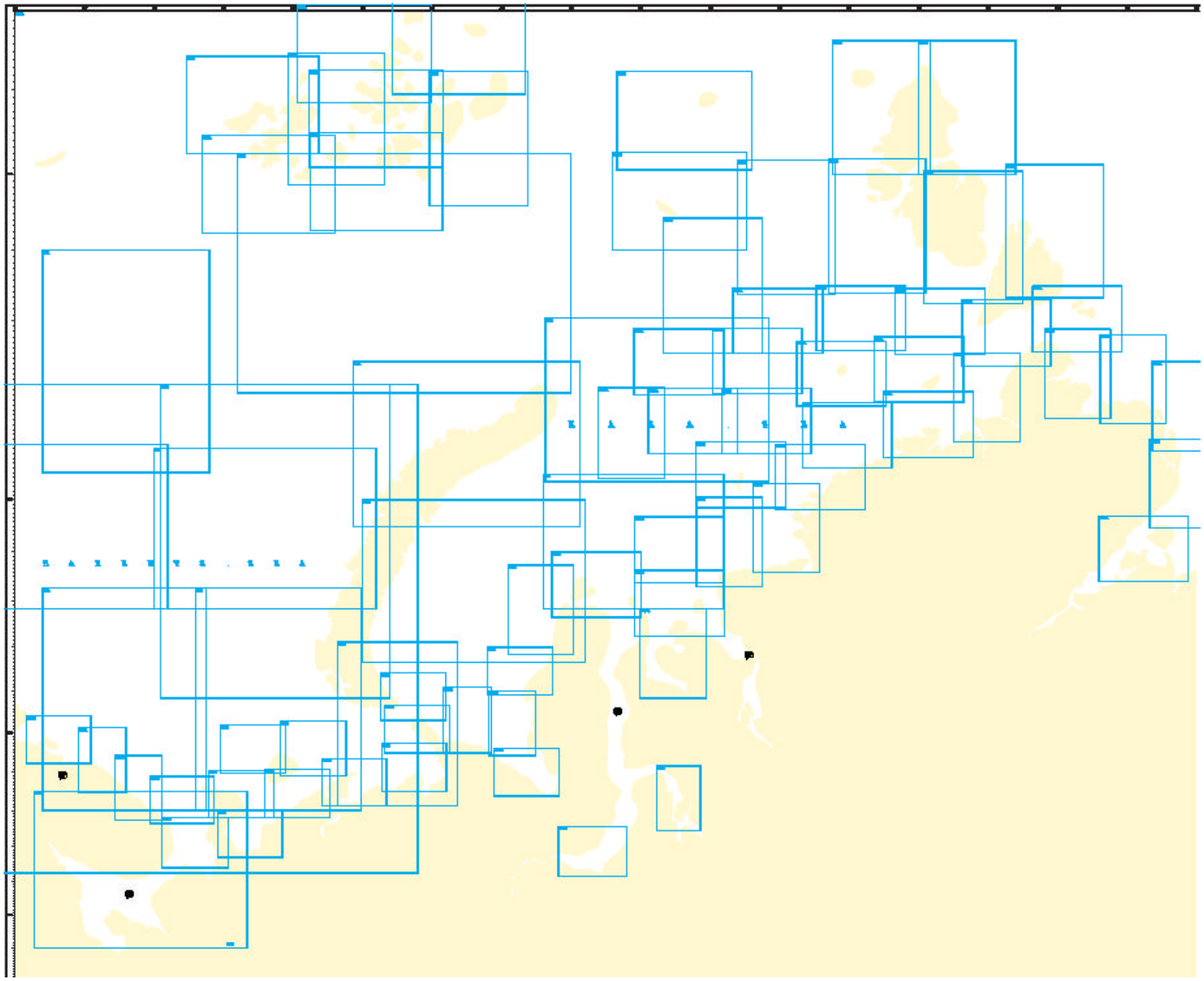
| Nos (chars) | No (cels) | Charts | ENC cells RU***** |
|---|---|---|---|
| *259.* | *272.* | *25078* | *5 O 5 L G 0* |
| 260. | 273. | 25079 | 5 O 5 L G 1 |
| 261. | 274. | 25080 | 5 O 6 L G 0 |
| *262.* | *275.* | *25081* | *5 O 6 L G 1* |
| *263.* | *276.* | *25082* | *5 O 6 L G 2* |
| | *277.* | *25082-?* | *6 O 7 L H 0* |
| 264. | 278. | 25086 | 5 O 7 L E 0 |
| 265. | 279. | 25087 | 5 O 8 L D 0 |
| 266. | 280. | 25089 | 5 O 5 L E 0 |
| *267.* | *281.* | *25090* | *5 O 6 L D 0* |
| *268.* | *282.* | *25091* | *5 O 6 L D1* |
| 269. | 283. | 25092 | 5 O 6 L C 0 |
| 270. | 284. | 25093 | 5 O 5 L D 0 |
| *271.* | *285.* | *25094* | *5 O 5 L C 0* |
| *272.* | *286.* | *28086* | *5 O 2 L G 0* |
| *273.* | *287.* | *28093* | *6 O 5 L F 0* |
| | *288.* | *28093-?* | *6 O 5 L F 1* |
| | *289.* | *28093-?* | *6 O 5 L F 2* |
| *274.* | *290.* | *28094* | *6 O 5 L F 3* |
| | *291.* | *28094-?* | *6 O 6 L F 0* |
| 275. | 292. | 28095 | 5 O 5 L F 0 |
| *276.* | *293.* | *28097* | *5 O 7 L F 0* |
| **CASPIAN SEA** | | | |
| 277. | 294. | 31003 | 2 M 8 M J 0 |
| 278. | 295. | 31004 | 2 L T M J 0 |
| 279. | 296. | 31005 | 2 L H M J 0 |
| 280. | 297. | 32003 | 3 M 5 M M 0 |
| 281. | 298. | 32004 | 3 M 8 M L 0 |
| 282. | 299. | 32005 | 3 M C M J 0 |
| 283. | 300. | 32006 | 3 M E M M 0 |
| 284. | 301. | 32007 | 3 M F M Q 0 |
| 285. | 302. | 32008 | 3 M G N 1 0 |
| 286. | 303. | 32010 | 3 M D M Q 0 |
| 287. | 304. | 35010 | 5 M 6 M O 0 |
| 288. | 305. | 35011 | 5 M 7 M N 0 |
| 289. | 306. | 35012 | 5 M 7 M N 1 |
| 290. | 307. | 35013 | 5 M 7 M N 2 |
| 291. | 308. | 35014 | 5 M 8 M M 1 |
| 292. | 309. | 35021 | 4 M B M N 0 |
| 293. | 310. | 35022 | 4 M B M M 0 |
| 294. | 311. | 35023 | 4 M C M M 0 |
| 295. | 312. | 35024 | 4 M D M M 0 |
| 296. | 313. | 35026 | 4 M E M M 0 |
| 297. | 314. | 35027 | 4 M G M M 0 |
| 298. | 315. | 38015 | 5 M 8 M M 0 |
| 299. | 316. | 38016 | 5 M 9 M M 0 |
| **SEA OF JAPAN** | | | |
| 300. | 317. | 61001 | 2 M 0 U Q 0 |
| 301. | 318. | 62010 | 3 M P V T 0 |
| 302. | 319. | 62074 | 3 M E V I 1 |
| | 320. | 62074-? | 5 M E V J 1 |
| | 321. | 62074-? | 5 M F V K 0 |
| | 322. | 62074-? | 5 M I V O 0 |
| 303. | 323. | 62075 | 3 M J V O 0 |
| | 324. | 62075-? | 5 M N V S 0 |
| | 325. | 62075-? | 5 M L V Q 0 |
| | 326. | 62075-? | 6 M L V Q 0 |
| 304. | 327. | 62077 | 3 N 0 W 0 0 |
| 305. | 328. | 62079 | 3 M J V T 0 |
| 306. | 329. | 62100 | 3 M F W 2 0 |

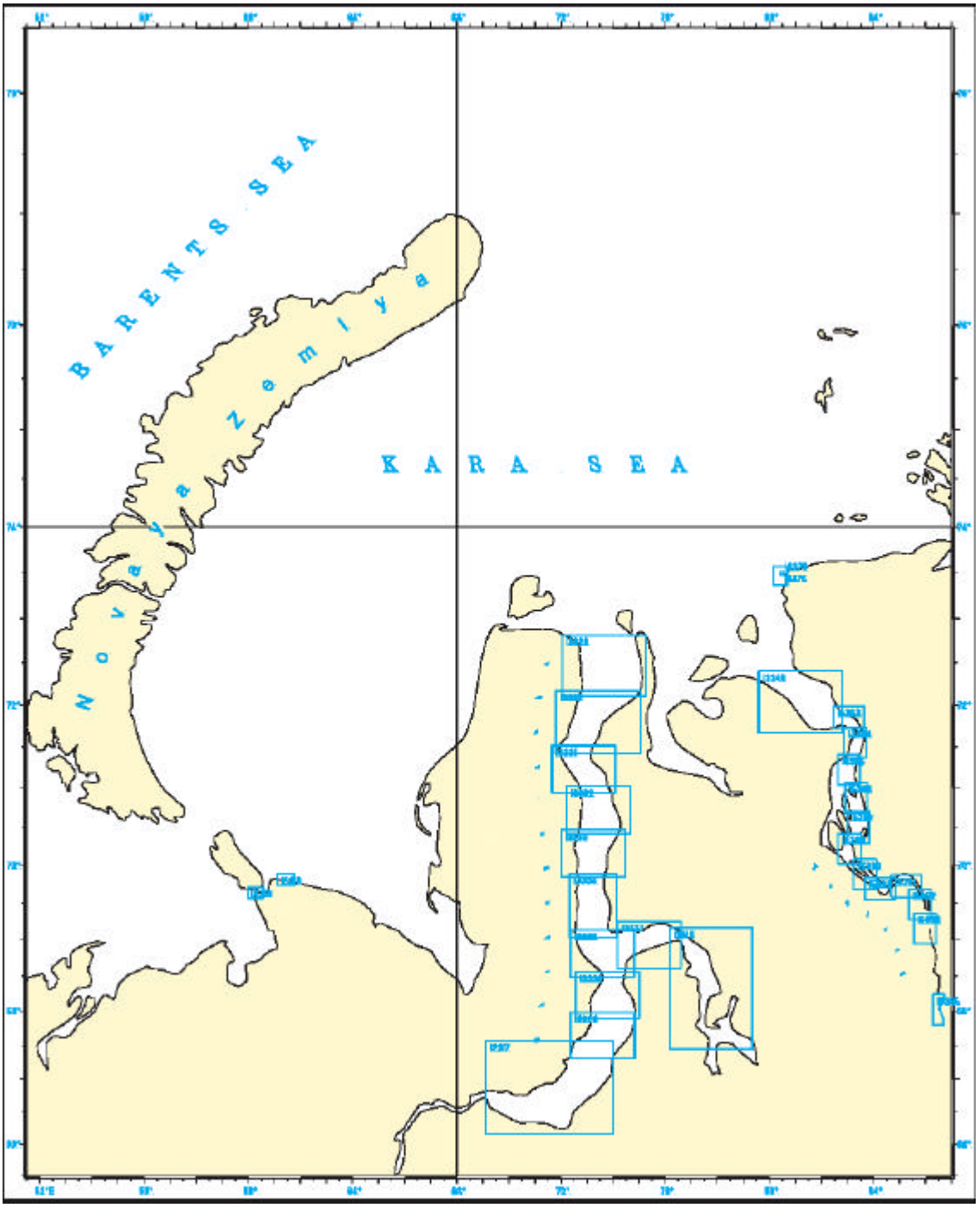
| Nos (chars) | No (cels) | Charts | ENC cells RU***** |
|---|---|---|---|
| 307. | 330. | 62199 | 3N4W00 |
| 308. | 331. | 63000 | 3M6V10 |
| 309. | 332. | 63001 | 3M6V40 |
| 310. | 333. | 63002 | 3M8V40 |
| 311. | 334. | 63003 | 3M6V60 |
| 312. | 335. | 63004 | 3M7V80 |
| 313. | 336. | 63005 | 3M8VB0 |
| 314. | 337. | 63006 | 3M8VD0 |
| 315. | 338. | 63007 | 3MAVF0 |
| 316. | 339. | 63008 | 3MBVG0 |
| 317. | 340. | 63009 | 3MCVH0 |
| 318. | 341. | 63010 | 3MEVI0 |
| | 342. | 63010-A | 5MEVJ0 |
| 319. | 343. | 65004 | 4M9V40 |
| 320. | 344. | 65009 | 5M8V70 |
| 321. | 345. | 65010 | 5M8V81 |
| 322. | 346. | 65011 | 4E7V80 |
| 323. | 347. | 68005 | 6M9V50 |
| 324. | 348. | 68006 | 5M9V50 |
| 325. | 349. | 68011 | 5M8V80 |
| 326. | 350. | 68013 | 5M8V90 |
| **Tatarskiy proliv** | | | |
| 327. | 351. | 65138 | 4N9W30 |
| 328. | 352. | 65139 | 4N8W30 |
| 329. | 353. | 65140 | 4N8W31 |
| 330. | 354. | 65141 | 4N8W10 |
| 331. | 355. | 65142 | 4N7W30 |
| 332. | 356. | 65143 | 4N6W30 |
| | 357. | 65143-? | 5N6W40 |
| 333. | 358. | 65144 | 4N5W30 |
| 334. | 359. | 65145 | 4N4W30 |
| **SEA OF OKHOTSK** | | | |
| 335. | 360. | 61018 | 2M9W50 |
| 336. | 361. | 61019 | 2MIW70 |
| 337. | 362. | 61020 | 2N1W80 |
| 338. | 363. | 61021 | 2N9VN0 |
| 339. | 364. | 61023 | 2NLW20 |
| 340. | 365. | 61024 | 2NLWM0 |
| 341. | 366. | 61028 | 2N9X50 |
| 342. | 367. | 61029 | 2N0WR0 |
| 343. | 368. | 61030 | 2MLX10 |
| 344. | 369. | 61031 | 2MCWM0 |
| 345. | 370. | 61032 | 2N9W70 |
| 346. | 371. | 61033 | 2N9WL0 |
| 347. | 372. | 61035 | 2MIWL0 |
| 348. | 373. | 61036 | 2MSXA0 |
| 349. | 374. | 62128 | 3NSY00 |
| 350. | 375. | 62129 | 3O1Y20 |
| 351. | 376. | 62130 | 3O3Y50 |
| 352. | 377. | 62131 | 3O5Y70 |
| 353. | 378. | 62172 | 3MHW70 |
| 354. | 379. | 62173 | 3MNW70 |
| 355. | 380. | 62174 | 3MRW90 |
| 356. | 381. | 62175 | 3N3W70 |
| 357. | 382. | 62176 | 3N8W60 |
| 358. | 383. | 62177 | 3N9VS0 |
| 359. | 384. | 62178 | 3NAVJ0 |
| 360. | 385. | 62179 | 3NDVF0 |
| 361. | 386. | 62180 | 3NEVL0 |
| 362. | 387. | 62181 | 3NJVO0 |

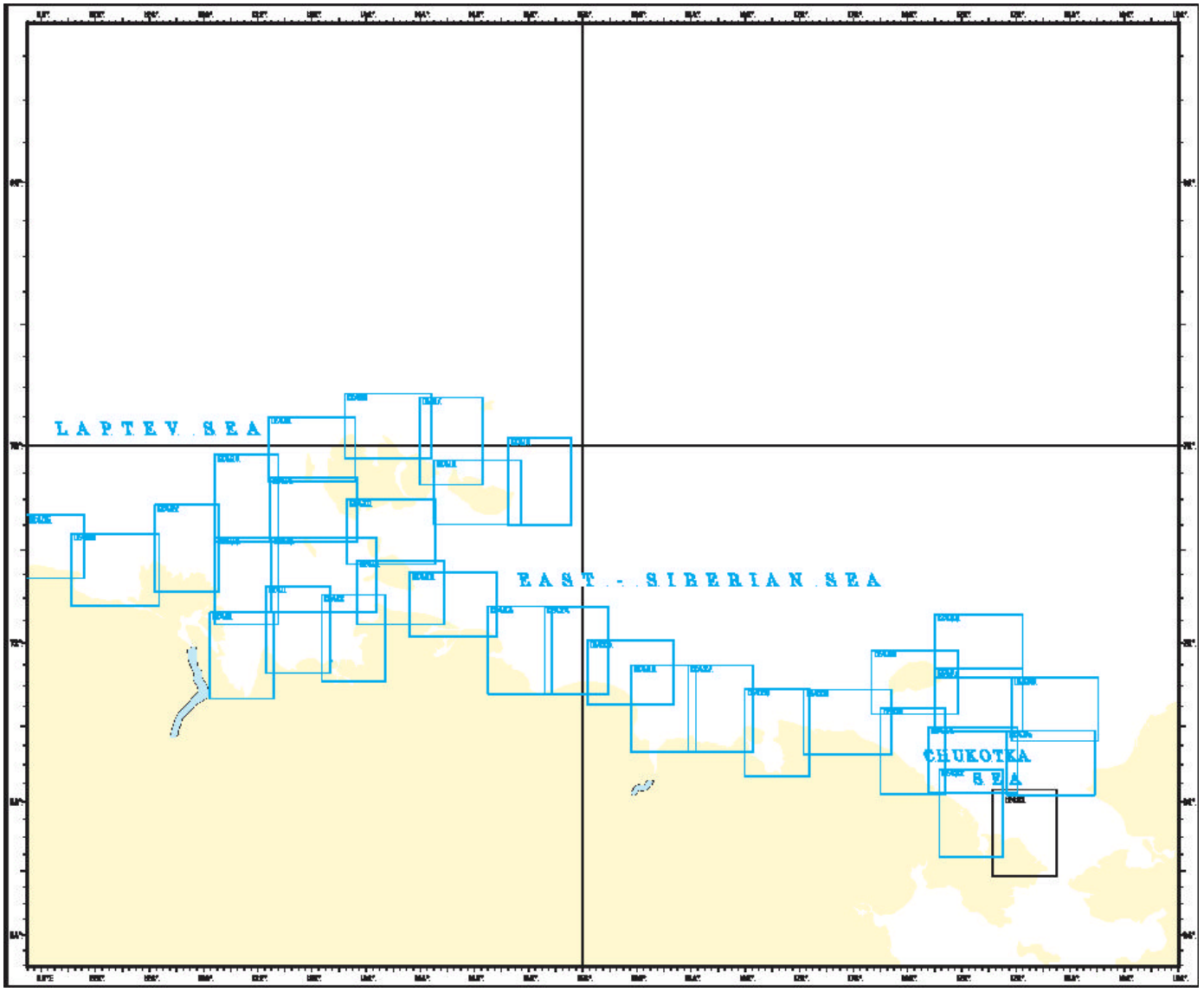
| Nos (chars) | No (cels) | Charts | ENC cells RU***** |
|---|---|---|---|
| 363. | 388. | 62182 | 3 N M V T 0 |
| 364. | 389. | 62183 | 3 N P W 3 0 |
| 365. | 390. | 62184 | 3 N P W C 0 |
| | 391. | 62184-A | 5 N S W G 0 |
| 366. | 392. | 62185 | 3 N 0 W L 0 |
| 367. | 393. | 62186 | 3 N P W Q 0 |
| 368. | 394. | 62187 | 3 N N X 0 0 |
| | 395. | 62187-A | 6 N R X 1 0 |
| 369. | 396. | 62188 | 3 N O X 8 0 |
| 370. | 397. | 62189 | 3 N Q X C 0 |
| 371. | 398. | 62190 | 3 N T X C 0 |
| 372. | 399. | 62191 | 3 O 1 X H 0 |
| 373. | 400. | 62192 | 3 O 1 X O 0 |
| 374. | 401. | 62193 | 3 N P X L 0 |
| 375. | 402. | 62194 | 3 N N X I 0 |
| 376. | 403. | 62195 | 3 N K X C 0 |
| 377. | 404. | 62196 | 3 N F X B 0 |
| 378. | 405. | 62197 | 3 N 9 X B 0 |
| 379. | 406. | 62198 | 3 N 4 X E 0 |
| 380. | 407. | 62271 | 3 M B W 6 0 |
| 381. | 408. | 62272 | 3 M 8 W F 0 |
| 382. | 409. | 62273 | 3 M D W K 0 |
| 383. | 410. | 62274 | 3 MG W R 0 |
| 384. | 411. | 62275 | 3 M L X 3 0 |
| | 412. | 62275-? | 5 MM X 8 0 |
| 385. | 413. | 62276 | 3 M P X 8 0 |
| 386. | 414. | 62277 | 3 M S X C 0 |
| | 415. | 62277-A | 4 N O X F 0 |
| 387. | 416. | 62278 | 3 N1 X G 0 |
| 388. | 417. | 62279 | 3 N 3 X O 0 |
| 389. | 418. | 63206 | 3MBWH0 |
| 390. | 419. | 63209 | 3MFWo0 |
| 391. | 420. | 63220 | 3MSXC1 |
| 392. | 421. | 64140 | 3N2XH0 |
| 393. | 422. | 65265 | |
| 394. | | 65266 | 4N1Xi9 |
| **BERING SEA** | | | |
| 395. | 423. | 62280 | 3 N 9 X R 0 |
| 396. | 424. | 62281 | 3 N D Y B 0 |
| 397. | 425. | 62282 | 3 N B Y B 0 |
| 398. | 426. | 62283 | 3 N H Y 5 0 |
| 399. | 427. | 62284 | 3 N N Y 5 0 |
| 400. | 428. | 62285 | 3 N Q Y 8 0 |
| 401. | 429. | 62286 | 3 N R Y I 0 |
| 402. | 430. | 62287 | 3 N R Z 0 0 |
| 403. | 431. | 62288 | 3 O 0 Z 7 0 |
| 404. | 432. | 62289 | 3 O 4 Z F 0 |
| 405. | 433. | 62290 | 3 O 5 Z O 0 |
| | 434. | 62290 west | 3 O 5 0 T 0 |
| 406. | 435. | 62291 | 3 O A Z M 0 |
| | 436. | 62291 west | 3 O A 0 T 0 |
| 407. | 437. | 62292 | 3 O E 0 T 0 |
| | 438. | 62292 west | 3 O E Z R 0 |
| 408. | 439. | 62293 | 3 O C 0 P 0 |
| 409. | 440. | 62294 | 3 O B 0 L 0 |
| 410. | 441. | 62295 | 3 O 9 0 C 0 |
| 411. | 442. | 62296 | 3 O D 0 9 0 |
| 412. | 443. | 62297 | 3 O E 0 4 0 |
| 413. | 444. | 65280 | 4N7XP9 |

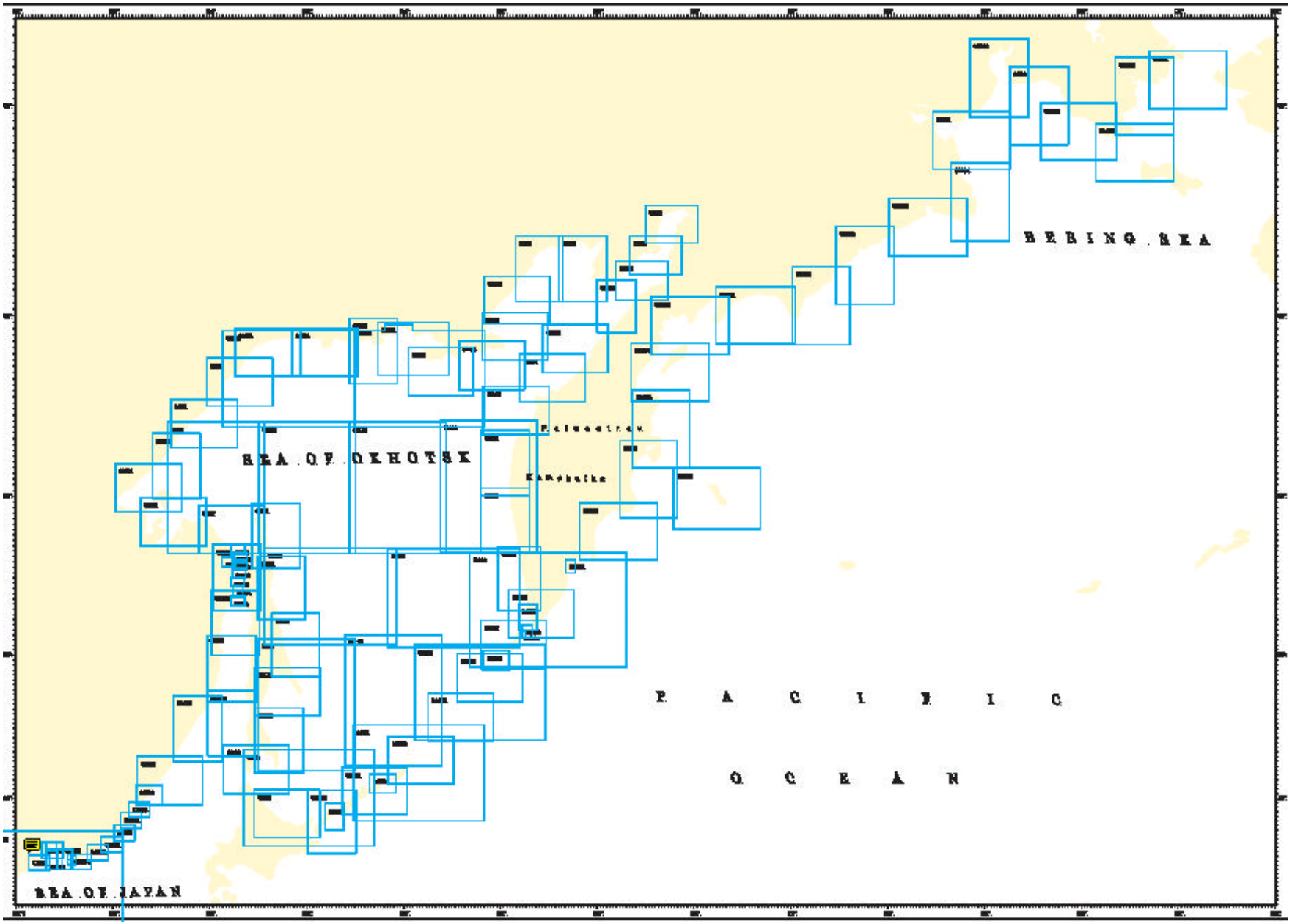
| Nos (chars) | No (cels) | Charts | ENC cells RU***** |
|---|---|---|---|
| 414. | | 68280 | |
| | 445. | 68280-? | 6N8XP0 |
| | 446. | 68280-? | 6N9XP0 |
| | 447. | 68280-? | 6N9XP1 |
| *BLACK SEA, SEA OF AZOV (to be issued)* | | | |
| *415.* | *448.* | *32106* | *3 M B L K 0* |
| *416.* | *449.* | *32121* | *3 M F L J 0* |
| *417.* | *450.* | *33146* | *3 M J L M 0* |
| *418.* | *451.* | *33147* | *3 M K L O 0* |
| *419.* | *452.* | *35145* | *4 M K L Q 0* |
| *420.* | *453.* | *35149* | *4 M I L N 0* |
| *421.* | *454.* | *35156* | *4 M D M L 0* |
| *422.* | *455.* | *35160* | *4 M B L Q 0* |
| | *456.* | *35160-?* | *6 M C L R 0* |
| | *457.* | *35160-?* | *6 M C L P 0* |
| *423.* | *458.* | *38160-A* | *6 M L L Q 0* |
| | *459.* | *38160-?* | *6 M K L O 0* |
| *424.* | *460.* | *38169* | *6 M F L L 0* |
| *425.* | *461.* | *38172* | *6 M E L N 0* |
| *426.* | *462.* | *38174* | *6 M E L N 1* |

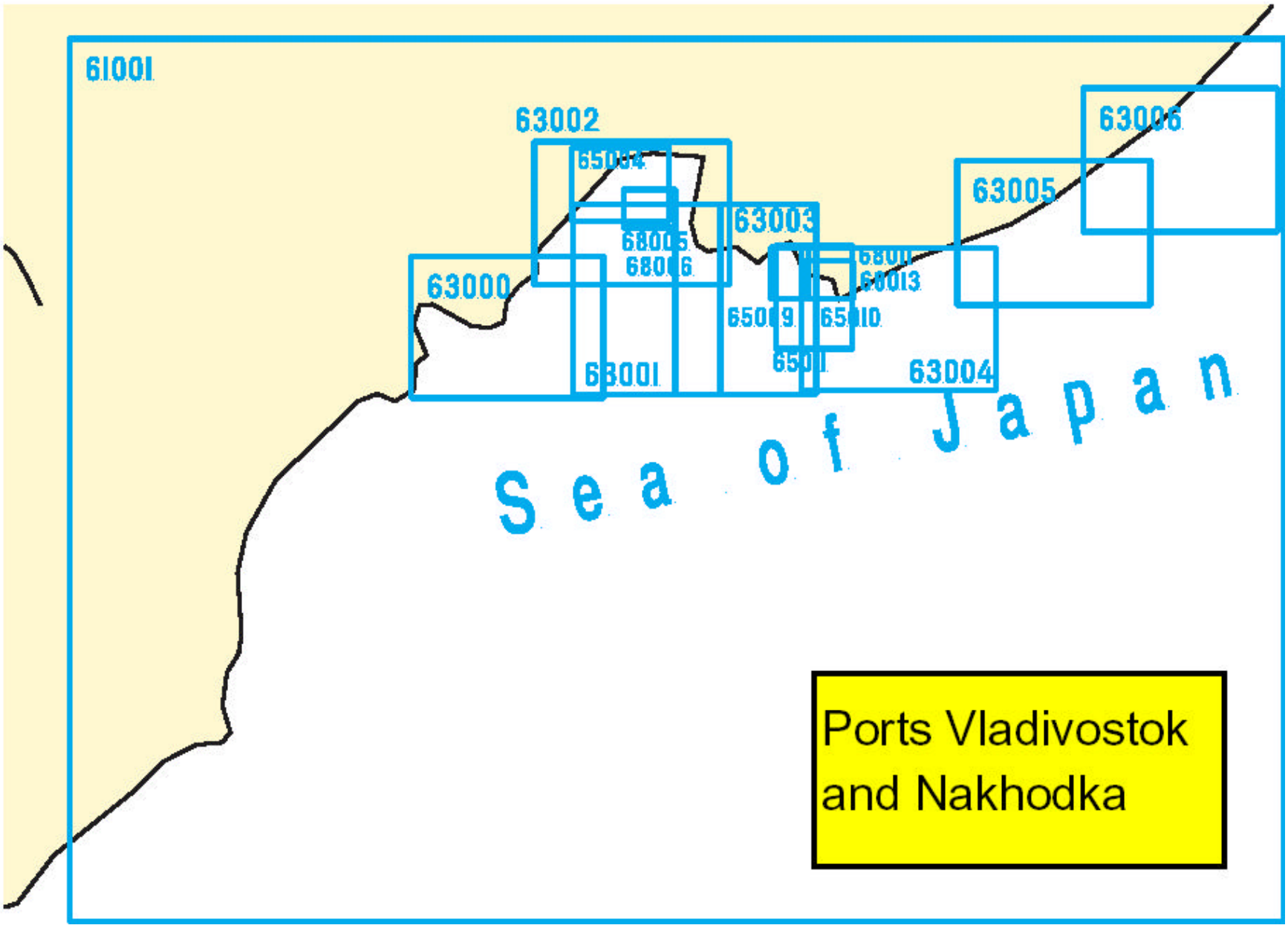

B A R E N T S S E A
W h i t e S e a

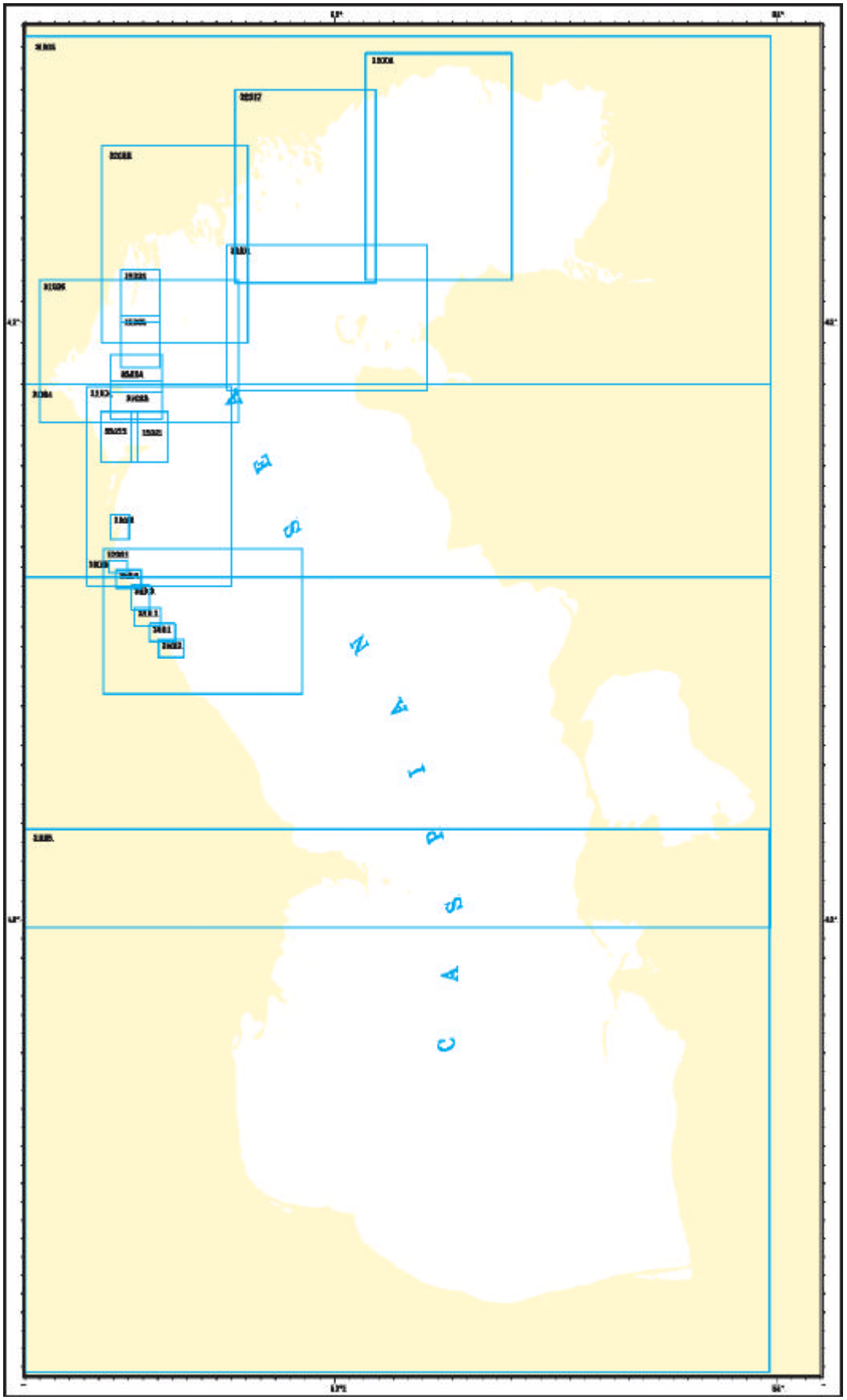


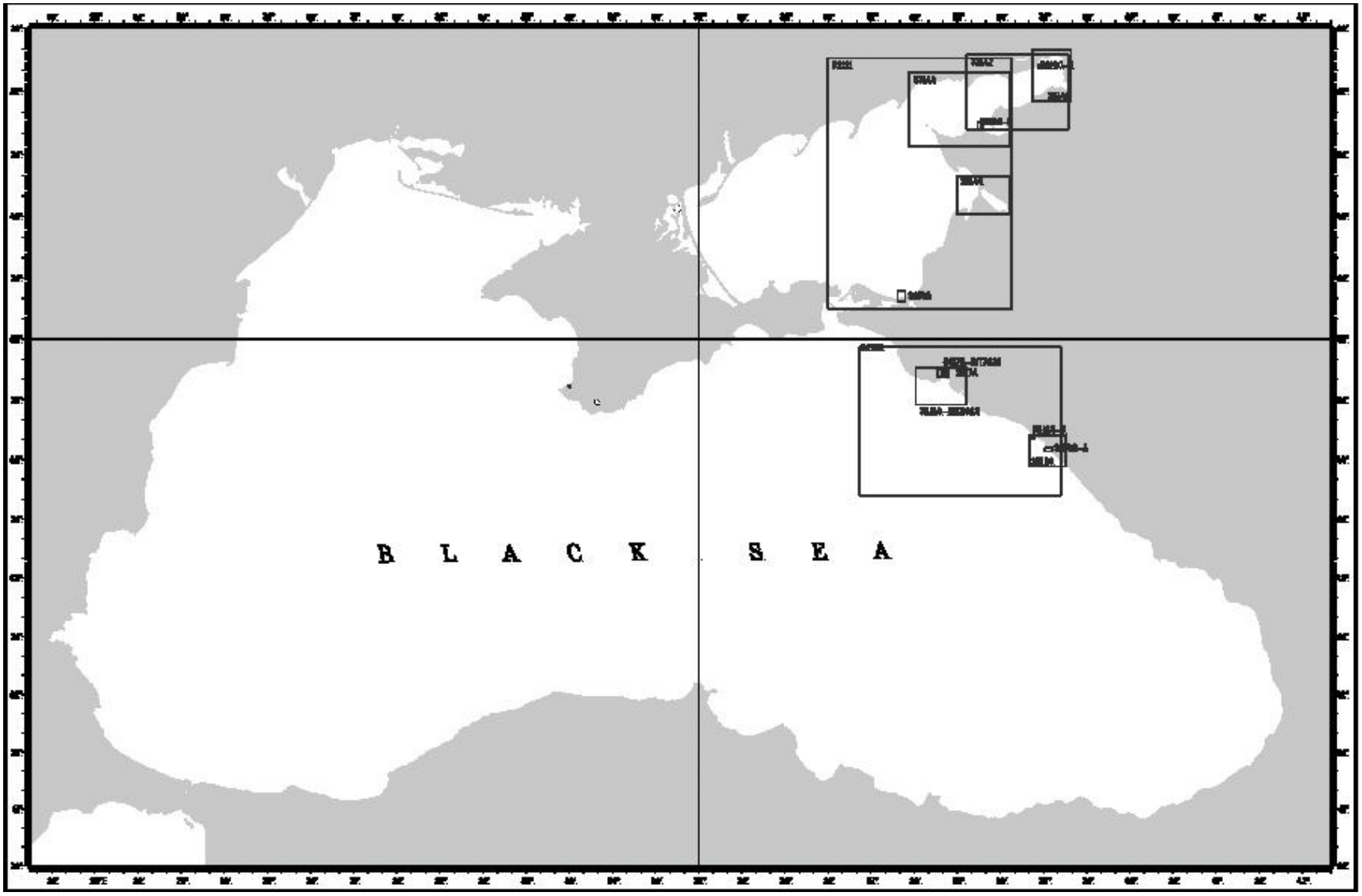

BARENTS SEA
Novaya Zemlya
KARA SEA

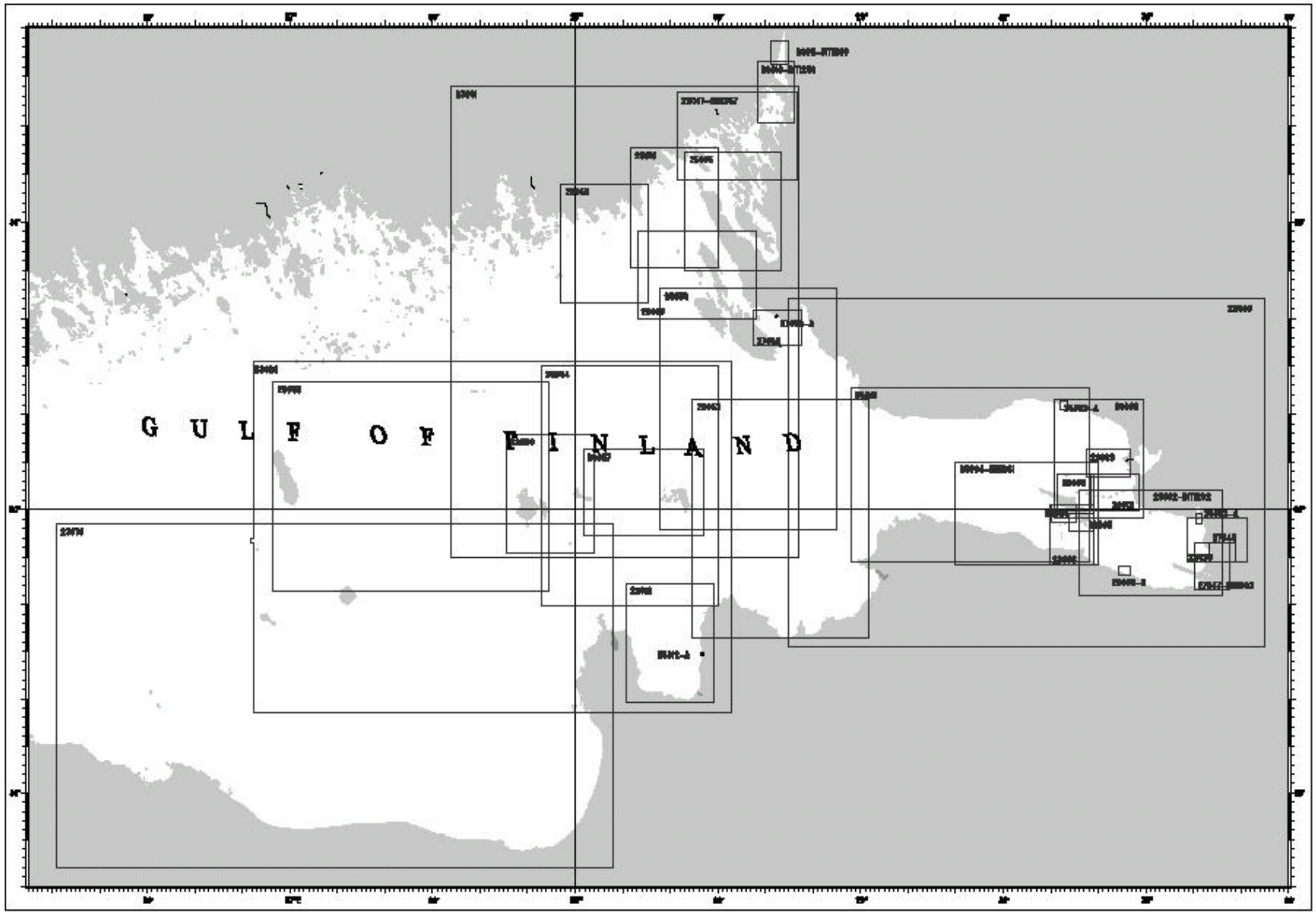

LAPTEV SEA
EAST SIBERIAN SEA
CHUKOTKA
SEA


BERING SEA
SEA OF OKHOTSK
Kamchatka
PACIFIC
OCEAN
SEA OF JAPAN


61001
63002
65004
63006
63005
63003
68005
68006
63000
68013
65009
65010
65011
63001
63004
Sea of Japan
Ports Vladivostok
and Nakhodka




B L A C K S E A


G U L F O F F I N L A N D

# SOUTH AFRICA (May 2004)

## National Report on Electronic Chart Production

### Introduction

South Africa has chosen the following paper chart – ENC relationship:

| Chart Series | ENC Usage Band |
|---|---|
| SAN Harbour charts | Harbour |
| SAN Approaches charts | Approaches |
| SAN 100 000 and 150 000 Series charts | Coastal |
| SAN 300 000, 600 000 Series | General |
| SAN 1 000 000 Series and all other small scales | Overview |

The cells in the Harbour and Approaches bands will be the equivalent of the paper chart wrt coverage area. Cells in the Coastal, General and Overview usage band will be compiled from more than one paper chart. All cells will conform to the current guidelines for SCAMIN and data consistency as discussed at the 10th TSMAD meeting in Wollongong, Australia and the subsequent proposal decided at the Sub-Working Group Meeeting recently held.

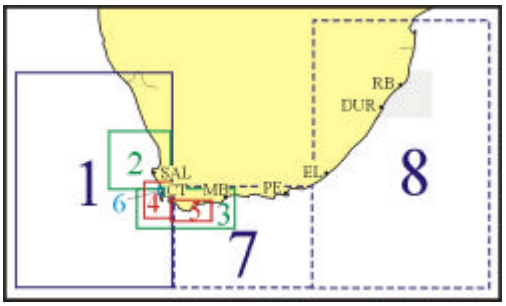
The SAN HO currently has four dKart Editor licences, three dKart Publisher licences, and one licence each of dKart Navaids, Catalogue Server and Archives.

Validation tools used are dKart Inspector (built into Editor, two licences of SevenCs Analyser and Transas NaviSailor 2000).

### ENC Production Priority

The priority for producing ENC cells is the approaches to the ports of Cape Town and Durban, the IMO Traffic Separation Scheme between Cape Agulhas and Mosselbaai and the overview charts for South African waters.

The following ENCs are in an advanced state of production:




| *Cell Number* | *IC-ENC Product Ref* | *Cell Title* | *S Lat* | *W Long* | *N Lat* | *E Long* | *Graphic Ref* |
|---|---|---|---|---|---|---|---|
| ZA100020 | ZA1002 | Southern Waters of South Africa | 38.500 | 19.000 | 32.000 | 26.867 | 7 |
| ZA200030 | ZA2003 | Table Bay to Mosselbaai | 35.625 | 16.983 | 33.750 | 22.583 | 2 |
| ZA200040 | ZA2004 | Walker Point to Port Alfred | 35.383 | 22.583 | 33.417 | 27.000 | 3 |
| ZA300040 | ZA3004 | Dassen Island to Kaap Hangklip | 35.123 | 17.437 | 33.383 | 18.908 | 4 |
| ZA300050 | ZA3005 | Mudge Point to Cape Infanta | 35.190 | 18.908 | 34.270 | 21.217 | 5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ZA400050 | ZA4004 | Approaches to Table Bay | 33.992 | 18.257 | 33.687 | 18.515 | 6 |
| ZA500050 | ZA5003 | Table Bay | 33.922 | 18.386 | 33.864 | 18.490 | |

(ZA500050 being revised for SCAMIN and other changes)

The cells covering Durban and Richards Bay and the third Overview charts (8) are the future priority areas.

South African ENC Products (as at 5 May 04)

All latitudes are South of the Equator and all longitudes East of Greenwich.

| ***Cell Number*** | ***IC-ENC Product Ref*** | ***Cell Title*** | ***S Lat*** | ***W Long*** | ***N Lat*** | ***E Long*** | ***Graphic Ref*** |
|---|---|---|---|---|---|---|---|
| ZA100010 | ZA1001 | Western Waters of South Africa | 38.500 | 10.000 | 28.250 | 19.000 | 1 |
| ZA500050 | ZA5003 | Table Bay | 33.922 | 18.386 | 33.864 | 18.490 | - |
| ZA500160 | ZA5005 | Durban Harbour | 29.904 | 30.991 | 29.847 | 31.091 | - |

South African commercial ENCs are distributed through IC-ENC (UK)

# SWEDEN (May 2004)

## ENC production and Distribution

Actual information of the current status of the ENCs released by the Swedish Maritime Administration (SMA) is found in the PRIMAR Stavanger Chart Catalogue, www.primar-stavanger.org.

The Swedish waters is covered by ENCs in the scale area around 1: 250 000 except for the northernmost part of the Bay of Bothnia, where two new charts are under production and where the equivalent ENCs are planned to be released late this year.

The fairways to major ports are mainly covered and according to plans all Swedish waters will be covered by ENCs by the end of this year or beginning of the next year.

The requirements as by the HELCOM Copenhagen Declaration of the 10th of September 2001 will thus be fulfilled. The declaration states that primary fairways and ports should be covered by the end of the year 2002 and the secondary ones by the end of 2004.

The ENCs is continuously updated according to the same cycle as the printed Swedish Notices for Mariners, i.e. every week.

Sweden has declared the ENCs fully compliant to the SOLAS V chart carriage requirements.

The Swedish ENCs and updates are distributed through the PRIMAR Stavanger

# UNITED KINGDOM (February 2004)

## 1. Production

1.1 By the end of January 2004, the UKHO had produced 428 ENCs. 352 of these ENCs were available for distribution through IC-ENC and the UKHO's ENC service.

1.2 The UKHO has the capacity to produce about 20 ENCs per month (either as new cells, new editions, or as a mixture of both).

1.3 All of the UKHO's ENC production processes are ISO 9001:2000 certified.

## 2. Coverage

2.1 The main areas of geographic coverage of the UKHO's ENCs are the waters around the UK and parts of the Mediterranean Sea, the Red Sea and the Gulf. Plans to extend the coverage to other parts of the world are presently under consideration.

2.2 Each of the UKHO's ENCs is broadly equivalent to a paper chart both in terms of its area of coverage and its content.

## 3. Data Capture and Verification

3.1 Initial data capture is contracted out to a company in India (IIC). This reduces the average in-house production time for new cells from 6 to 3 weeks.

3.2 The verification of data from IIC and all work on the production of updates for ENCs and new editions is done in-house in the UKHO.

## 4. Training and Assistance

4.1 The UKHO is pleased to be able to offer the following services to other national hydrographic offices:

- Production of ENCs
- Quality Assurance (QA) of ENCs
- Updating of ENCs for Notices to Mariners and New Editions
- Provision of training in ENCs and their production (see IHO Special Publication S-47)
- Assistance with the establishment of ENC production facilities
- Assistance with the establishment of a Quality Management System for ENC production
- Assistance with the distribution of ENCs (through IC-ENC and UKHO's ENC service)

5. **Distribution**

5.1 Following the disbandment of PRIMAR in 2002 the UK set up a new RENC for the collection and distribution of ENCs known as IC-ENC - International Centre for ENCs.

5.2 IC-ENC is operated by UKHO on behalf of its members – Belgium, Germany, Greece, Netherlands, Portugal, South Africa, Spain and UK. IC-ENC distributes ENCs through a series of specialist distributors known as Value Added Resellers (VARs), who package ENCs to meet the needs of the shipping market. IC-ENC carries out validation, ECDIS and consistency checks to ensure that all ENCs supplied to its VARs are consistent and of uniform quality.

5.3 IC-ENC currently has three Value Added Resellers – the UKHO, SevenCs and C-Map Norway and is currently processing applications from other potential Value Added Resellers.

5.4 As a Value Added Reseller of IC-ENC, the UKHO has established an ENC service for end-users that combines ENCs from different countries, sourced from IC-ENC, on a single CD-ROM. The ENC service works in the same way as the UKHO's existing Admiralty Raster Chart Service (ARCS). The UKHO issues the latest ENC corrections every week to ensure all subscribers have fast access to all safety critical information. Updates are supplied on CD-ROM, but the UKHO intends to expand the service to include remote updating via web or email.

For further information, please contact:

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Somerset TA1 2DN
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Tel: +44 (0)1823 337900 Ext.4201
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E-mail: peter.wright@ukho.gov.uk
www.ukho.gov.uk

February 2004

# UNITED STATES OF AMERICA (NOAA) (April 2004)

## ENC Production Status

1. The following table provides the status of ENC production for the United States (NOAA) as of April 2, 2004.

| Paper Charts Available | Raster Charts Available | ENCs | Equivalent Paper charts | Version One | Version Two | ENCs Being Updated |
|---|---|---|---|---|---|---|
| 1002 | 1002 | 397 | 397 | 29 | 368 | 397 |

2. The short-term goal is to provide ENC coverage of the major commercial ports in the U.S. This will require approximately 200 ENCs. Ninety-nine percent of this goal has been achieved. The remaining 1 percent will be completed by October 2004. Upon completion of this goal, approximately 400-450 additional ENCs will be prepared.

   The first 60 ENCs that were produced had reduced content and were intended for deep draft navigation only. These ENCs are referred to as "Version One" data in the table above. "Version Two" ENCs contain full chart detail except for roads, railroads and land contours. All ENCs presently in work, and all ENCs to be produced in the future, will be Version Two. Version One ENCs are being upgraded to Version Two as time and resources permit.

   Up-to-date information about the U.S. ENC program and the U.S. raster chart program can be found at the Web site http://NauticalCharts.noaa.gov/.

3. ENCs being produced by NOAA employees are collected using the LaserScan Automated Map Production System 2 (LAMPS2). Some data on NOAA ENCs does not come from the chart, but are re-collected from original source documents by NOAA, and then provided to contractors for inclusion in the ENCs. Final quality control is being done primarily using dKart Inspector.

   NOAA also has 5 contractors doing data collection from nautical charts, and 1 contractor doing data validation, which NOAA then re-validates.

4. Monthly updating of the completed ENCs is being performed. ENC corrections are not being distributed as incremental update. Rather, an entire new ENC is generated and re-issued. NOAA plans to implement incremental updates for critical corrections in the near future.

5. NOAA has published the announcement that makes its ENCs "official" and suitable for navigation. Mariners may now use those ENCs in lieu of paper charts when using a type-approved ECDIS aboard vessels and in situations conforming to U.S. Coast Guard regulations. To read this announcement, go to the URL http://www.gpoaccess.gov/fr/index.html and search on "Electronic Navigational Charts."

6. Distribution of the NOAA ENCs is being done using the Internet. The ENCs are distributed for free. The URL for downloading ENCs is

http://NauticalCharts.noaa.gov/mcd/enc/index.htm. Since distribution began in July 2001, 1,224,477 ENCs have been downloaded. A voluntary registration system provides the following statistics about those downloading ENCs and choosing to register.

| Organization type | Number identifying themselves as being in this category |
|---|---|
| General Public | 11,740 |
| Business | 5,312 |
| None specified | 5,941 |
| Not Assigned | 3,889 |
| Academia | 3,315 |
| Consultant | 2,860 |
| Non-profit | 2,362 |
| Research | 1,525 |
| Military | 1,320 |
| State Government | 600 |
| Utility | 629 |
| Non-NOAA Federal | 609 |
| Local Government | 555 |
| NOAA | 479 |
| Media | 304 |
| Foreign | 292 |
| Legal | 258 |
| Foreign Government | 158 |
| Foreign Business | 160 |
| Foreign Academia | 94 |
| Tribal Government | 57 |
| Congressional | 46 |
| **Total** | 42,505 |

## Daily ENC Download History