

**13<sup>th</sup> Meeting of the Hydrographic Commission on Antarctica (HCA)  
Cadiz, Spain, 3-5 December 2013**

## ENC SCHEMES AND PRODUCTION STATUS IN ANTARCTICA

**November 2013**

### Summary

#### I. ENC SCHEMES

An ENC scheme for Usage Bands 1 “overview” and 2 “general” was agreed in 2007 (HCA Letter 1/2007 refers). An ENC scheme for Usage Band 3 “coastal” was agreed in 2009 (Action 8/13 from HCA8 refers). They are available from the IHO website: [www.iho.int](http://www.iho.int) > Committees & WGs > HCA > Miscellaneous > Scheming and Production of INT Charts and ENCs in Region M. However, at HCA-12 in 2012, HPWG, as INT chart and ENC coordinator for Region M, was tasked to develop a large scale ENC scheme (navigational purposes 4 and 5) and review the existing smaller scale schemes, and submit to HCA by correspondence for comments / approval. (Action HCA12/4 refers). As a result, revised ENC schemes for Usage Bands 1, 2 and 3, as well as new ENC schemes for Usage Bands 4 and 5, are proposed in docs. HCA13-HPWG1 to 8.

#### II. ENC PRODUCTION

From the information available at the IHB, 87 ENCs have been published to date (70 as of October 2012). These include 13 “overview”, 18 “general”, 20 “coastal”, 17 “approaches”, 18 “harbour” and 1 “berthing”. An additional 23 ENCs are planned for publication in 2013-15. The current status of ENC production in Antarctica is as follows (main changes from the information provided in previous reports have been emphasized in **yellow**):

- **Argentina**

- Planned 2013/14
  - 1 “coastal” ENC (AR307240) based on INT 9156 and AR H-724.
  - 1 “harbour” ENCs based on INT 9142.

- **Australia**

- Published
  - 8 « general » ENCs based on INT 9038 (AU270040), INT 9035 (AU270050), INT 9035 & 9033 (AU270060), INT 9033 & 9030 (AU270070), INT 9030 & 9031 (AU270080), INT 9020 (AU270100 and AU270110) and Aus 597 (AU2597P0).
  - 1 “coastal” ENC based on INT 9014 (AU367142) ?
  - 4 “approaches” ENCs based on INT ??? (AU467142), INT 9036 (AU468062 and AU468063), INT 9014 (AU468142) and INT 9032 (AU460280). ?
  - 2 “harbour” ENCs based on INT 9036 (AU5600P1), INT ?? (AU5601P1) and INT 9014 (AU5603P1).
  - 1 « harbour » ENC based on INT 9021 (AU601P1) ?
- Planned 2013/14
  - 4 « overview » ENCs based on INT 74 (AU190060, AU190090, AU190120 and AU190150) ?
  - 1 « general » ENC based on INT 9031 (AU270090) ?
  - 4 « approach » ENCs based on INT 9037 (AU68060 and AU68061), INT 9021 (AU466110 and AU467110). ?

- **Brazil**

- Published

- 1 “coastal” ENC based on INT 9150 (BR325110).
  - 3 «approaches» ENCs based on BR 25119 (BR425119), BR 25120 (BR425120) and BR 25121 (BR425121).
  - 1 “harbour” ENC based on BR 25121 (BR525121).
- **Chile**
  - Published:
    - 1 “coastal” ENC (CL3MA850)
    - 1 « approaches » ENC based on INT 9124 (CL4MA600).
    - 6 “harbour” ENCs based on INT 9102 (CL5MA890), INT 9155 (CL5MA800 and CL5MA860) and INT 9123 (CL5MA930, CL5MA950 and CL5MA970).
  - Planned 2014 :
    - 1 “harbour” ENC based on CL 15352.
- **France**
  - Published:
    - 1 “approaches” ENC based on INT 9016 FR475940).
    - 1 “harbour” ENC based on INT 9017 (FR575930).
    - 1 “berthing” ENC based on INT 9017 (FR67593A).
  - Planned:
    - None
- **Germany**
  - Published
    - 1 “general” ENC based on INT 9055 (DE260001).
    - 1 «coastal» ENC based on INT 9057 (DE360010).
  - Planned 2014:
    - 1 “overview” ENC based on INT 905.
- **Italy**
  - Published
    - 2 « coastal » ENCs based on INT 9004 (IT300884) and INT 9005 (IT300881).
    - 1 “harbour” ENC based on INT 9005 (IT400881).
- **Japan**
  - Published:
    - 1 “general” ENC based on INT 9045. ?
    - 4 “coastal” ENCs based on INT 9046 (JP30ODCO, JP30ODCS, JP30PKEO, JP30PKES) in 2011.
    - 4 “approaches” ENCs based on INT 9047 (JP40P0TS, JP40P0TU, JP40PKES, JP40PKEU) in 2011.
    - 2 “harbour” ENCs based on INT 9047 (JP50PAME, JP50PKEU) in 2011.
- **New Zealand**
  - Published:
    - 2 “overview” ENCs based on INT 65 (NZ14065E and NZ14065W).
    - 2 “general” charts based on INT 900 (NZ21490E and NZ21490W).
  - Planned 2013:
    - 3 “coastal” ENCs based on INT 9008 (NZ314908), INT 9009 (NZ314909) and INT 9012 (NZ314912).
    - 5 “approach” ENCs based on INT 9001 (NZ414901), INT 9003 (NZ414903), INT 9006 (NZ414961 and NZ414962) and INT 9007 (NZ414907).
    - 4 “harbour” ENCs based on INT 9002 (NZ514902), INT 9003 (NZ514903) and INT 9006 (NZ514961 and NZ514962).

- **Norway**
  - Published:
    - 1 “overview” ENC based on INT 904 (NO1A5500).
  - Planned 2013:
    - 1 “overview” ENC based on INT 909.
  
- **Russian Federation**
  - Published:
    - 2 “overview” ENCs based on INT 903 (RU1A2K00) and INT 902 (RU1B0PF0).
    - 6 “general” ENCs based on INT 9172 (RU2A1AD0), INT 9060 (RU2ANEN0), INT 9050 (RU2A0ES0), INT 9040 (RU2BNM40), INT 9025 (RU2BLQN0) and INT 9010 (RU2A2X10).
    - 3 “coastal” ENCs based on INT 9051 (RU3A2J30), INT 9041 (RU3BNMF0) and INT 9011 (RU3BRXL0).
    - 1 “approaches” ENC based on INT 9026 (RU4BKR40).
    - 2 “harbour” ENCs based on INT 9042 (RU5BNMH0) and INT 9027 (RU5BJR80).
  - Planned 2013:
    - 4 “harbour” ENCs based on RU 48922 (RU5BNMH2), RU 48919 (RU5BNMH1), **RU 48956 and RU 48956-A.**
  
- **South Africa**
  - Published:
    - 1 “coastal” ENC based on INT 9056 (ZA300300).
  - Planned 2014:
    - None
  
- **Spain**
  - Published:
    - **1 “harbour” ENC based on Spanish national chart 7002 (which will be converted to INT chart) (ES507002).**
  - Planned 2014/2015:
    - 1 “approaches” ENC based on INT 9121.
    - 1 “harbour” ENC based on INT 9128.
  
- **UK**
  - Published:
    - 8 “overview” ENCs based on **INT 24 (GB14024C)**, INT 64 (GB14064B), INT 75 (GB104075), INT 63 (GB104063), INT 74 (GB104074), **INT 906 (GB104906)**, INT 907 (GB104907), and on national charts BA 4213 (GB104213) and BA 3200 (GB103200).
    - 5 “coastal” ENCs based on INT 9158 (GB372110), INT 9153 (GB372220), INT 9154 (GB372210), INT 9163 (GB302974) and **INT 9061 (GB303629).**
    - 2 “approaches” ENCs based on INT 9106 (GB47211A) and INT 9109 (GB47201A).
    - 2 “harbour” ENCs based on INT 9158 (GB57211A and GB57211B).
  - Planned 2013:
    - **1 “coastal” ENC (GB303566), based on BA 3566. ?**
  
- **USA**
  - Published:
    - **1 “coastal” ENC based on INT 9062 (US30029K).**
    - **1 “approaches” ENC based on INT 9105 (US5AN01).**