

## **8<sup>TH</sup> WEND COMMITTEE MEETING**

**Tokyo, Japan, 5-6 March 2004**

### **Report on Activities of Japan Hydrographic Association**

Submitted by

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#### **1. Background**

The Japan Hydrographic Association (JHA) is a public utility corporation established in 1971 under the guidance and supervision of the Japan Coast Guard (JCG) in order to address the increasing need for more comprehensive hydrographic services, that is, the further development of techniques in hydrography and oceanography, publication and distribution of a wider variety of navigational reference charts and publications, as well as reproduction and distribution of all Japanese official nautical charts and publications.

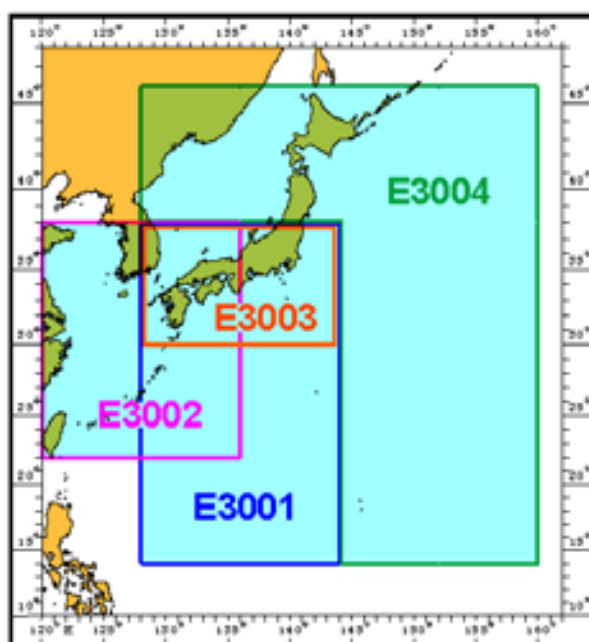
Japanese official nautical charts and publications are compiled and produced by the Hydrographic & Oceanographic Department (JHOD) of JCG, and the reproduction and distribution of these charts and publications is managed by, under the responsibility of, JHA. The Electronic Navigational Charts (ENCs) covering Japanese waters and approaches are also produced by JCG and reproduced and distributed by JHA. Thus, since the inception of services, JHA has taken an important role in the reproduction and distribution of Japanese official ENCs.

#### **2. Reproduction of Japanese Official ENCs**

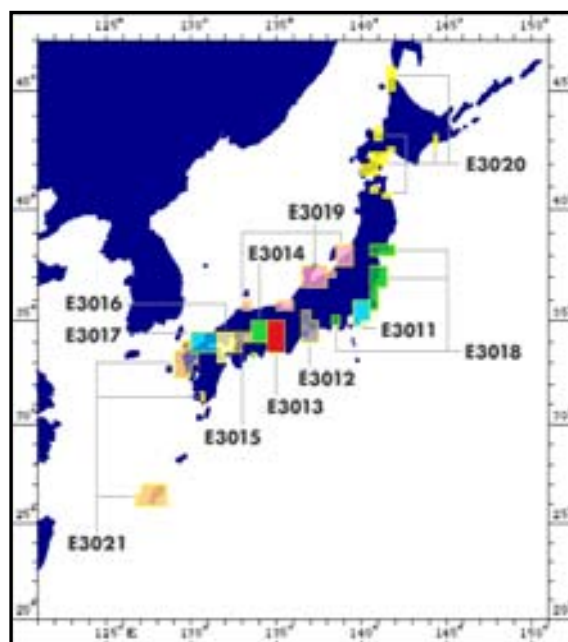
In accordance with the instructions of and the permission granted by the Commandant of JCG, JHA began reproduction and distribution of the Japanese ENCs in 1995 when the first Japanese ENC was released by JCG.

Since then, a series of ENCs has been published covering the Japanese waters and approaches: ENCs for “ports and approaches” and ENCs for “general and coastal

navigation”, which has been compiled and produced in accordance with the IHO standard formats, S-57 Edition 3.0. Eleven (11) ENC CD-ROMs of Japanese ports and approaches including “Tokyo Wan (bay)”, “Ise Wan”, “Osaka Wan and Harima Nada (sea)”, “Bisan Seto (channel)”, “Bingo Nada and Aki Nada” and “Kanmon Kaikyo (straits)” have been published and are available for purchase. In addition, four (4) ENC CD-ROMs for general and coastal navigation are also available. Information on ENC updates is given in the weekly Notices to Mariners issued by JCG, and updates (ER) in CD-ROM format are also distributed monthly by JHA.



Coverage of ENCs for General & Coastal Navigation



Coverage of ENCs for Ports & Approaches

### ENCs for General and Coastal Navigation

| ENC No. | Title   | Pub. Date  | Price (¥) |
|---------|---|------------|-----------|
| E3001   | Tokyo Wan to Ashizuri Misaki                              | Mar. 1995  | 73,200    |
| E3002   | Kita Kyushu to Ishigaki Shima                             | Nov. 1999  | 73,200    |
| E3003   | Seto Naikai and Tsushima to Sado Kaikyo                   | Nov. 1999  | 73,200    |
| E3004   | Northern Part of Japan Sea and Soya Kaikyo to Shioya Saki | Sept. 2000 | 73,200    |

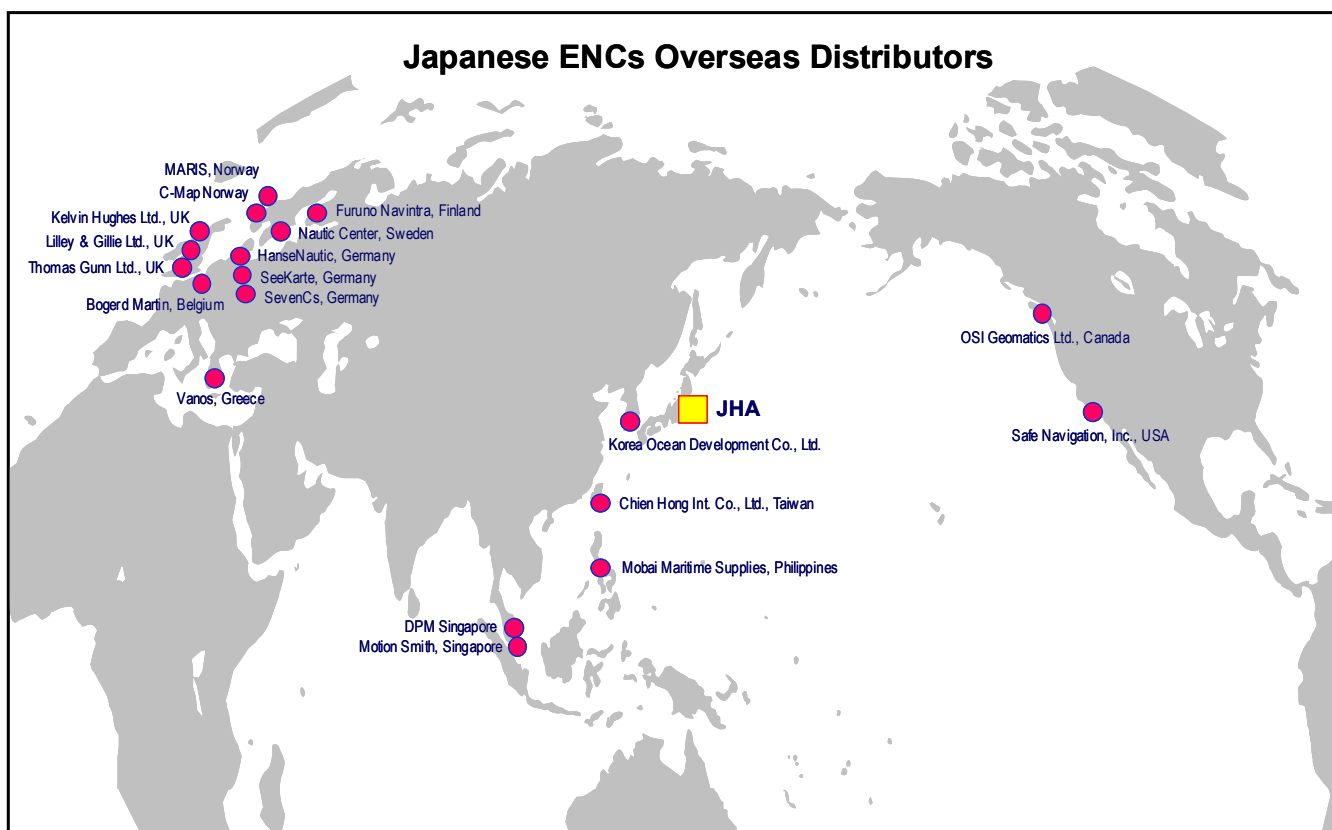
### ENCs for Ports and Approaches

| ENC No. | Title                     | Pub. Date | Price (¥) |
|---------|---------------------------|-----------|-----------|
| E3011   | Tokyo Wan                 | Mar. 1998 | 37,100    |
| E3012   | Ise Wan                   | Jan. 1999 | 37,100    |
| E3013   | Osaka Wan and Harima Nada | Mar. 1999 | 37,100    |
| E3014   | Bisan Seto                | Aug. 2000 | 37,100    |

|       |  |           |        |
|-------|--|-----------|--------|
| E3015 | Bingo Nada and Aki Nada                                    | June 2000 | 37,100 |
| E3016 | Iyo Nada and Bungo Suido                                   | Nov. 2000 | 37,100 |
| E3017 | Kanmon Kaikyo  | Feb. 2000 | 37,100 |
| E3018 | Ports on Honsyu East & South Coast and Shikoku South Coast | Mar. 2001 | 37,100 |
| E3019 | Ports on Honshu Northwest Coast                            | June 2001 | 37,100 |
| E3020 | Ports on Hokkaido and Honshu North Coast                   | Nov. 2001 | 37,100 |
| E3021 | Ports on Kyushu and Nansei Shoto                           | Mar. 2002 | 37,100 |

### 3. Distribution of Japanese Official ENCs

One copy of each original ENC disc produced by JHOD/JCG is leased to JHA each time a new ENC or new edition is published by JHOD/JCG. Through the use of the original discs, copy discs are reproduced by JHA. JHA has an extensive distribution network comprised of about 600 large and small-scale distributors and retailers throughout Japan as well as 19 overseas distributors, through which not only Japanese official paper charts and publications, but also ENCs are distributed and retailed to end-users. These paper products and ENCs are also available to users through JHA's web site (<http://www.jha.jp/>).



Since 1995, when the first ENC in CD-ROM format were released by JCG, a total of about 4,500 CD-ROMS have been sold to end-users to date. The Electronic Notices to Mariners

(ENtM) have been available in CD-ROM format since 1998, the year in which Japanese ENC's were renewed to the updated version S-57 Edition 3.0 from its previous Version 2.

#### **4. Future Plan**

Each CD contains a variety of basic cells (i.e. 8°, 4°, 1°, 30' or 15' cells), which are approximately equivalent to 15 to 50 sheets of paper charts. However, due to the fact that each Japanese ENC CD-ROM is a ready-made packaged disc containing set cells, JHA has been unable to sell individual or user-specified cells separately. In addition, no security has been applied to the cells. Accordingly, under the guidance and cooperation of JHOD, JHA is currently working to introduce ENC encryption as well as sales of user-specific licensed ENC cells. Sales of such encrypted and licensed ENC cells are scheduled to begin in December 2004. In order to execute this plan, a comprehensive system with computer programs capable of the following is now being studied and will be constructed:

- ◆ Security system: Data encryption and management
- ◆ User support and management
- ◆ Cell selection and order
- ◆ Issuance and management of licence key
- ◆ Online issuance of cell permits
- ◆ Distributor support and management

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