

**CIRCULAR LETTER 47/2003**  
**30 June 2003**

**ASSISTANCE IN ENC PRODUCTION**

- Ref: 1) IHB Circular Letter 54/2002 dated 18 November 2002  
2) IHO Technical Resolution K2.19

Dear Hydrographer,

One of the fundamental “WEND Principles” (IHO T.R. K2.19) states: “A Member State has responsibility for the preparation and provision of digital data and its subsequent updating for waters of national jurisdiction.” To achieve global ENC coverage within a reasonable time frame, it is therefore of utmost importance for as many IHO Member States as possible to rapidly acquire an adequate ENC production capability.

In view of the insufficient ENC coverage for worldwide safety of navigation and in order to speed up the ENC production globally, MS were invited, via CL 54/2002 (Annex H), to provide information on their need for technical assistance or ability to provide technical assistance in the production of ENCs.

The IHB thanks the 33 MS who provided responses, which have been summarized in **Annex A**. This table reveals that:

- The following MS, at least, would be prepared to assist other HOs in producing their ENCs: Australia, Canada, Chile, Estonia, Finland, France, Germany, India, Italy, Japan, Norway, Portugal, Turkey, UK and USA. The level and character of technical assistance varies by Member State, as indicated in the right hand column of the table.
- The following MS, at least, are in need of technical assistance in ENC production: Bahrain, Brazil, Croatia, Iceland, Kuwait, Mozambique, New Zealand, Tunisia, Ukraine, and Serbia & Montenegro.

Individual Member States are encouraged to pursue bilateral arrangements based on the information provided in Annex A. Furthermore, Chairmen of Regional Hydrographic Commissions are requested to include as a standing agenda item the availability of and need for ENC production assistance within their region and methods of matching resources to requirements. In related efforts, assistance in

ENC production was on the agenda of the 7<sup>th</sup> meeting of the IHO WEND<sup>1</sup> Committee, Lima, Peru, 15-16 May 2003 and the newly formed ENC Production Task Group was tasked to further assess these responses with a view towards increasing ENC production. Additionally, the IHO Technical Assistance and Capacity Building Committee will consider this information at its inaugural meeting, 11-12 September 2003.

A number of those MS who did not answer CL 54/2002 are reportedly lacking ENC production capabilities and could therefore be interested in receiving some assistance in the matter. In order to identify their needs, they are kindly requested to fill in the response form at **Annex B** and return it to the IHB **by 15 September 2003**. Member States who have already responded are free to update or amplify their previous responses as warranted.

On behalf of the Directing Committee  
Yours sincerely,

A handwritten signature in black ink, appearing to read 'K. Barbor', with a horizontal line drawn underneath the signature.

Rear Admiral Kenneth BARBOR  
Director

Encl: Annex A – Summary of Replies to CL 54/2002 (Annex H)  
Annex B – Response Form

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<sup>1</sup> World-wide Electronic Navigational chart Database

### Summary of Replies to IHB Circular Letter 54/2002 (Annex H)

Member State	Question (1)	Question (1.1)	Comments	Question (2)	Comments
Argentina	Yes	Yes	We need to share experiences with other MS who are more advanced than ourselves in the ENC area. It would be important to maintain easy communications on problems that could arise now and then.	Yes	We are willing to share the experience of other States who are less advanced or who have just started on ENC production. We believe that on a technical level we could be of some advice to them. At the moment due to economical restrictions we are limited in the ENC production area, however it is a subject that we are interested in and that we will keep to one side.
Australia	No	-	-	Yes	Visits secondment welcome. No financial assistance is available for visitors.
Bahrain	Yes	Yes	The IC-ENC (UKHO) has offered assistance in finalising ENC-Cells created. Presently 3 cells are nearly ready.	Yes	When production has been properly established.
Brazil	Yes	Yes	The Technical assistance should not implicate financial charge since our budget for the next two years does not include this activity.	No	-
Canada	No	-	-	Yes	We are willing to provide technical assistance on a case-by-case basis depending upon workload at the time.
Chile	No	-	-	Yes	Mainly to Latin American countries.
Croatia	Yes	Yes	-	No	-
Denmark	No	-	-	No	-
Estonia	No	-	-	Yes	In case, when some financial support from outside is available.
Finland	No	-	-	Yes	For the next few years our relevant capacity is fully occupied by our own ENC production. Assistance to other IHO Member States might be considered after that.

<sup>1</sup> Do you need technical assistance in the production of ENCs?

<sup>1.1</sup> If YES, would you be interested in receiving technical assistance on the matter from other IHO Member State(s)?

<sup>2</sup> Would you be prepared to provide technical assistance to other IHO Member State(s) in the production of ENCs?

Member State	Question (1)	Question (1.1)	Comments	Question (2)	Comments
France	No	-	-	Yes	Normally according to bilateral agreements between States.
Germany	No	-	-	Yes	BSH is prepared to host members of other HOs for on-the-job training in ENC production and updating (travel costs must be borne by the sending HO).
Greece	No	-	-	No	-
Iceland	Yes	Yes	-	No	-
India	No	-	India has carried out in-house training for this purpose.	Yes	-
Italy	No	-	-	Yes	The Italian HO is ready to provide technical assistance to other MS as already done with Croatia and Slovenia within the North Adriatic Pilot project..
Japan	No	-	-	Yes	Japan has been dispatching experts and accepting interns from Philippines, Malaysia and Indonesia, which are all IHO MS. We have also held seminars / workshops for ENC production, and are willing to continue these types of technical aids in future.
Korea (Rep of)	No	-	-	No	However, we can provide some information on ENCs production of Korea in writing.
Kuwait	Yes	Yes	We are going to get our own system for producing ENCs very soon, so we need other MS' experiences in this field, in the form of reports, studies etc.	No	-
Mexico	No	-	-	No	At the moment our staff are concentrating on accomplishing other matters. However once we have finished and we have more time and experience we will be in a position to give our advice to other HOs.
Mozambique	Yes	Yes	-	No	-
Netherlands	No	-	Especially close coordination between IC-ENC and Primar Technical Working Groups facilitates more conformity of ENCs in European waters.	No	Lack of resources.

Member State	Question (1)	Question (1.1)	Comments	Question (2)	Comments
New Zealand	Yes	Yes	We are currently receiving help from US/NOAA and the Australian HO. We had approached all IHO MS earlier about their ENC programmes, when planning our ENC folio.	Yes	Limited assistance – due to our current level of experience.
Norway	No	-	-	Yes	Any request will be considered. Primarily NHS will prioritise bilateral projects through Norwegian Foreign Aid Programmes.
Portugal	No	-	-	Yes	To Member States of EAtHC and SAIHC, preferably those with Portuguese as official language.
South Africa	No	-	-	No	-
Spain	No	-	Spain has established a production line for ENC and does not require technical assistance. Nevertheless, Spain is maintaining contacts with neighbouring countries to clear up technical issues related to production.	-	Due to staff limitations, Spain is in principle unable to offer technical assistance in the wide sense. Nevertheless, it could be considered for certain cases.
Tunisia	Yes	Yes	The THOS is very interested in ENC production and is looking forward any assistance on the matter (hardware, software, training, etc.).	No	-
Turkey	No	-	-	Yes	CARIS software is being used for the production of ENCs in Turkey. Technical assistance could be provided to HOs that use the same software; otherwise only theoretical ENC training could be provided.
Ukraine	Yes	Yes	Ukraine would appreciate if the following Cartographic equipment could be provided: 1) Workstation based on PC PIV/ 2.0GHz/512Mb/40Gb/21" Monitor –7 units 2) Internet server IBM x Series 232/ 1.4GHz/16b/54.9Gb SCSI – 1 unit 3) File-server IBM x Series 232/ 1.13GHz/16b/100Gb SCSI – 1 unit 4) Graphic station Intellistation M ProDua L8650 2.4GHz/2Gb/440Gb SCSI –1 unit 5) Graphic station Intellistation M ProDua L6850 2.4GHz/2Gb/140Gb SCSI –1 unit	Yes	We use modern technological line dKart Office to produce ENC compliant to S-57 ed. 3.x Standard and paper nautical charts on the base of digital data sets. We are ready to render services on production of ENCs in S-57 Standard and traditional paper charts on the base of information and materials provided.

<b>Member State</b>	<b>Question (1)</b>	<b>Question (1.1)</b>	<b>Comments</b>	<b>Question (2)</b>	<b>Comments</b>
UK	No	-	-	Yes	The UKHO offers a 5-week course (at Taunton) which covers ENC production, maintenance and distribution. Bursaries are available to many countries, to cover costs associated with the course. The UKHO is in a position to produce ENCs for, and on behalf of, other HOs, upon request.
USA (NOS)	No	-	-	Yes	Limited technical assistance by the Naval Oceanographic Office is provided to MS which are engaged in conducting cooperative survey operations through the auspices of international bilateral agreements. This responsibility falls under the purview of the International Division within the Naval Oceanographic Office.
Serbia & Montenegro	Yes	Yes	-	No	-

**QUESTIONNAIRE**

(to be returned to the IHB by 15 September 2003  
E-mail: [info@ihb.mc](mailto:info@ihb.mc) - Fax: +377 93 10 81 40)

**ASSISTANCE IN ENC PRODUCTION**

**Note:** No response to CL 54/2002 (Annex H) was received at the IHB from Member States listed at the bottom of this page<sup>1</sup>.

**Member State:** .....

1. Do you need technical assistance in the production of ENCs?

YES  NO

1.1 If yes, would you be interested in receiving assistance on the matter from other IHO Member State(s)?

YES  NO

Comments : .....  
.....

2. Would you be prepared to provide technical assistance to other IHO Member State(s) in the production of ENCs?

YES  NO

Comments : .....  
.....

Name/Signature ..... Date : .....

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<sup>1</sup> Algeria, Bangladesh, Belgium, China, Colombia, Cuba, Cyprus, DPR Korea, Ecuador, Egypt, Fiji, Guatemala, Indonesia, Iran, Jamaica, Malaysia, Monaco, Morocco, Nigeria, Oman, Pakistan, Papua New Guinea, Peru, Philippines, Russian Federation, Singapore, Slovenia, Sri Lanka, Syrian Arab Republic, Thailand, Tonga, Trinidad & Tobago, United Arab Emirates, Uruguay, Venezuela.