

**8<sup>TH</sup> WEND COMMITTEE MEETING**  
**Tokyo, Japan, 5-6 March 2004**

**ENC Assistance Questionnaire (by IHB)**

<b>SUMMARY</b>	
<b>Executive summary:</b>	As a result of CHRIS 14, CL 54/2004 polled Member States as to their need for assistance in producing ENC or their ability to provide assistance to other for the production of ENC. Subsequently, CL 47/2003 requested those Member States not responding to CL 54 to do so. In total 51 Member States responded. The results are included in tabular form at Annex A and in a presentation found at Annex B.
<b>Actions to be taken:</b>	Discuss and propose bilateral and multilateral assistance programs to stimulate ENC production.
<b>Related documents:</b>	WEND8-4E

## 1. Background

CHRIS 14 concluded that, although the rate of ENC production was improving, it remained far below that necessary for worldwide safety of navigation. These shortcomings are in spite of improved and readily available ENC production tools. To better understand the reasons for these shortcomings and to gain information on which to base remedial and technical assistance programs, Member States were requested to inform the IHB as to their need for ENC production assistance or their ability to provide ENC production assistance. Although the responses are not complete, they form an initial body of information for analysis. These responses are found at Annex A.

## 2. Discussion

The WEND Task Group was charged with developing initiatives to stimulate ENC production. To this end the responses to the ENC Assistance Questionnaire were reviewed and potential bilateral and multilateral arrangements discussed. The questionnaire results and potential arrangements to stimulate ENC production are provided in the presentation at Annex B. At the second meeting of the WEND Task Group, the members discussed the meaning of “integrated services.” The definition proposed by the Chairman of the Task Group and generally agreed to by the members was<sup>1</sup>:

*“A ~~are sold~~ variety of end-user services where each service is selling all its ENC data, regardless of source, to the end user within a single service proposition embracing format, data protection scheme and updating mechanism, packaged in a single exchange set and within a single set of license terms and pricing conditions.”*

## 3. Conclusion and Recommendations:

The WEND Committee Members are encouraged to discuss the questionnaire results and propose technical assistance programs to stimulate ENC production.

<sup>1</sup> Changes marked in blue in the definition below have subsequently been proposed by Mr. H. Hecht (Germany), Chairman of WEND Task Group.

## ASSISTANCE IN ENC PRODUCTION

SUMMARY OF REPLIES TO IHB CIRCULAR LETTER 54/2002 (ANNEX H)  
AS UPDATED WITH REPLIES TO CL 47/2003

Member State	Question ( <sup>2</sup> )	Question ( <sup>1.1</sup> )	Comments	Question ( <sup>2</sup> )	Comments
Algeria	Yes	Yes	-	No	-
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.
China	No	-	-	Yes	-
Croatia	Yes	Yes	-	No	-
Cuba	No	-	-	Yes	Our resources are fully devoted to ENC production. Later we could consider providing assistance to other Member States, preferably Spanish-speaking countries.

<sup>2</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 ( <sup>2</sup> )	Question ( <sup>1.1</sup> )	Comments	Question ( <sup>2</sup> )	Comments
Cyprus	Yes	Yes	-	No	We have no capability for such.
Denmark	No	-	-	No	-
Ecuador	Yes	Yes	Ecuador has established a primary production line and a secondary for ENC's and has acquired the equipment and basic programs for completion of our objectives but it is always necessary to gain technical assistance, capacity and experience of others member states that have a major capacity to produce ENC's.	Yes	Our level of experience is limited and restricts the support we could provide but as we acquire greater experience we are willing to collaborate.
Egypt	Yes	Yes	Our HO needs support in all stages of ENC Production; we are looking forward any assistance on the matter (Hardware – software – Training, etc.)	No	We have not started Producing ENC yet.
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.
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	-	-	Yes	Since the circulation of CL54/2002, we would like to inform you that HNHS is now in a position to provide limited assistance in ENC production and updating, especially to MS that have signed bilateral arrangements or MOU.
Iceland	Yes	Yes	-	No	-
India	No	-	India has carried out in-house training for this purpose.	Yes	-
Iran	Yes	Yes	As a pilot project, Iran in cooperation with a Canadian company (CARIS) has produced an ENC chart for part of the Persian Gulf Area. Therefore, we wish to be able to cover all the Northern Part of the Persian Gulf and Sea of Oman through our close partnership with the above-mentioned country.	-	
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.

Member State	Question ( <sup>2</sup> )	Question ( <sup>1.1</sup> )	Comments	Question ( <sup>2</sup> )	Comments
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 ENC's production of Korea in writing.
Kuwait	Yes	Yes	We are in the process of procuring a system for producing ENC's very soon, (beginning 2004).	No	-
Malaysia	Yes	Yes	We are producing ENC but with very limited capacity. More training programmes for our staff will increase our capability and capacity.	-	
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 HO's.
Morocco	Yes	Yes	Morocco benefits from technical assistance financed through the European Union (MedChartNet). That said Morocco still needs additional assistance from other countries in ENC production and particularly suffers from a lack of "know-how".	No	Morocco is not a producer country of ENC's, but hopes to become a producer country in the not too distant future and would then be happy to provide technical assistance.
Mozambique	Yes	Yes	-	No	-
Netherlands	No	-	Especially close coordination between IC-ENC and Primar Technical Working Groups facilitates more conformity of ENC's in European waters.	No	Lack of resources.
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.
Pakistan	Yes	Yes	Technical assistance is not needed at this stage. Need for assistance will be intimated later.	Yes	After development of expertise in ENC this office will be pleased to render assistance to other IHO Member States.
Peru	No	-	-	Yes	Preference to Spanish-speaking countries.
Philippines	Yes	Yes	Presently we are receiving assistance from Japan HO through JICA	No	
Portugal	No	-	-	Yes	To Member States of EAHC and SAIHC, preferably those with Portuguese as official language.

Member State	Question ( <sup>2</sup> )	Question ( <sup>1.1</sup> )	Comments	Question ( <sup>2</sup> )	Comments
Serbia & Montenegro	Yes	Yes	We are especially interested in participating in the following regional projects: North Adriatic VRENC Pilot project and MEDChartNet project.	No	We are not able to provide this kind of technical assistance.
Singapore	No	No		Yes	We conduct training on the production and quality assurance of ENC's. The training is conducted annually. However no financial assistance is available.
Slovenia	No	-	-	Yes	We are willing to share our experience in ENC production. We use dKart software for production and updating of ENC's. We are also in a position to produce ENC's for other HO's.
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.
Sri Lanka	Yes	Yes	Preferably from UKHO (covering technical assistance and training)	No	Not applicable.
Sweden	No	-		No	
Thailand	Yes	Yes	We need only theoretical ENC training course or on the job training for ENC production and updating services.	No	We need Member States' experience in ENC production in form of report, guideline and suggestion.
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 ENC's in Turkey. Technical assistance could be provided to HO's that use the same software; otherwise only theoretical ENC training could be provided.
Ukraine	No	-		Yes	We are ready to provide assistance on production ENC's in S-57 standard depending upon workload and in case when some financial support is available.

Member State	Question ( <sup>2</sup> )	Question ( <sup>1.1</sup> )	Comments	Question ( <sup>2</sup> )	Comments
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.
Venezuela	Yes	Yes	-	No	

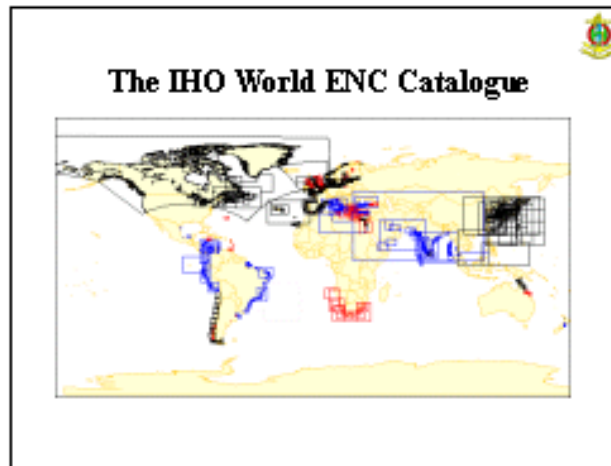
Questionnaire Results and Potential Arrangements to Stimulate ENC Production



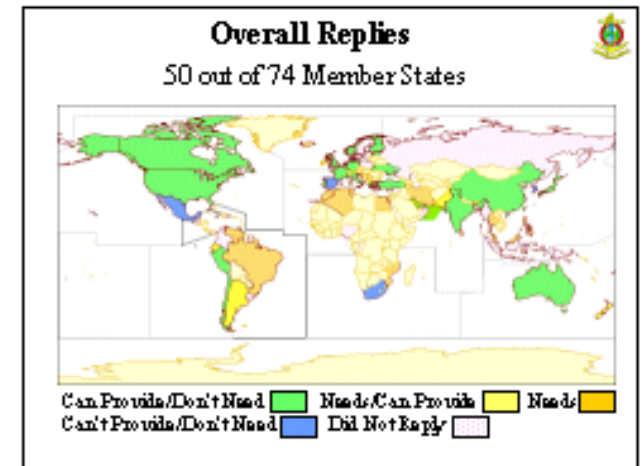
## ENC Assistance

Replies to CL 47/2003 & 54/2002  
With Proposed Bilateral and  
Multilateral Arrangements  
And Small Scale Producers

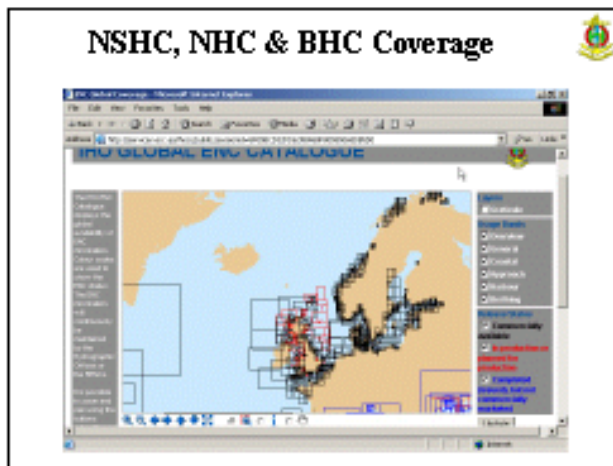
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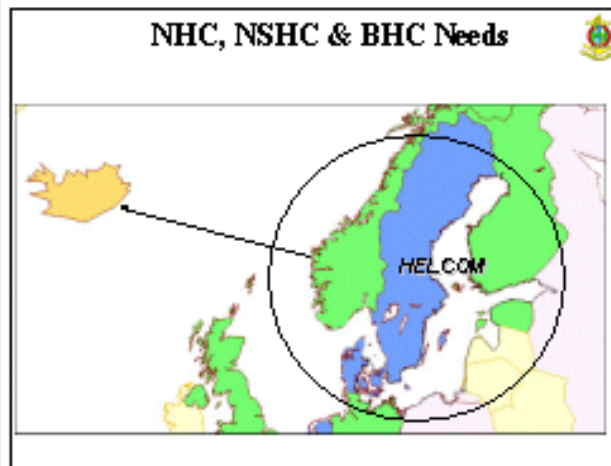
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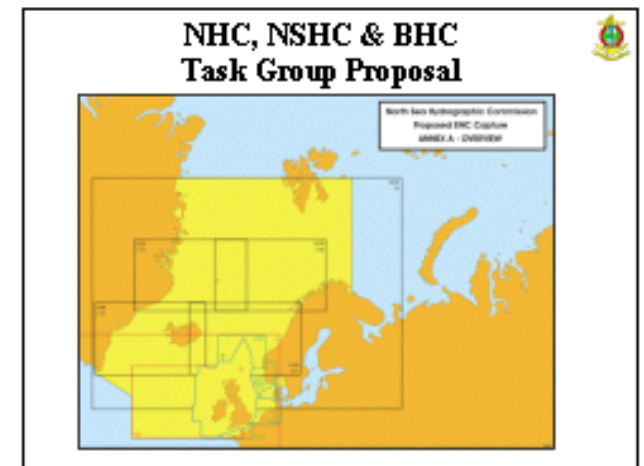
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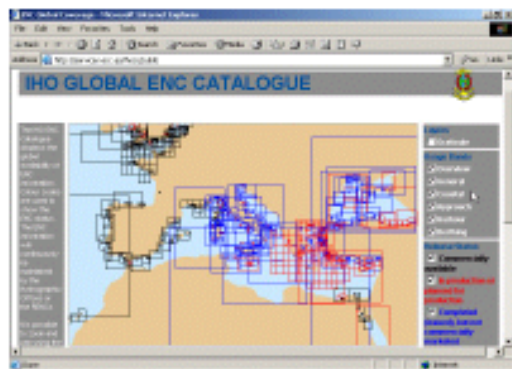


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### MBSHC Coverage



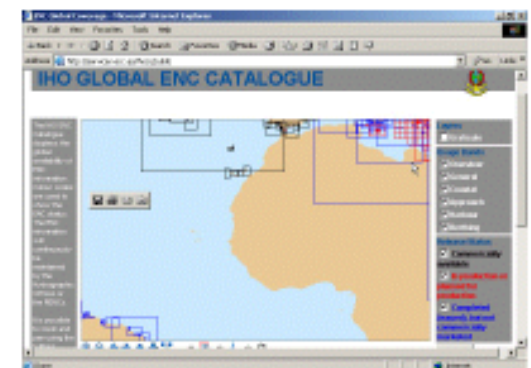
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### MBSHC Needs



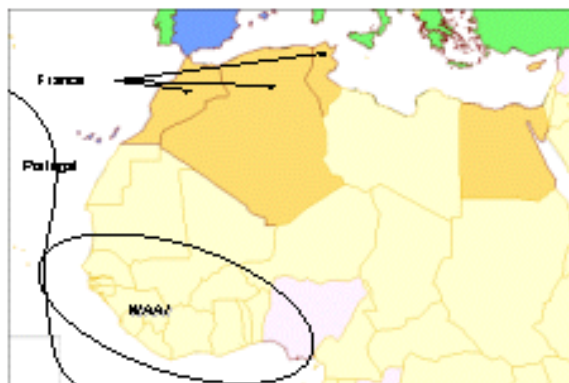
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### SEAtHC Coverage



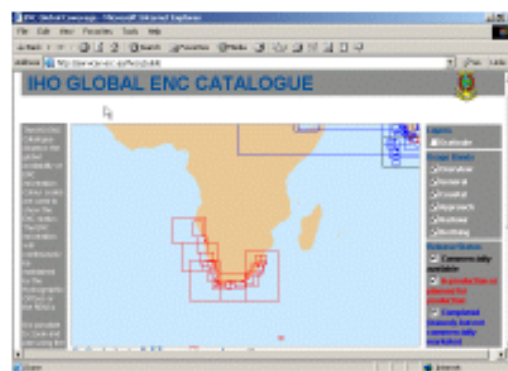
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### SEAtHC Needs



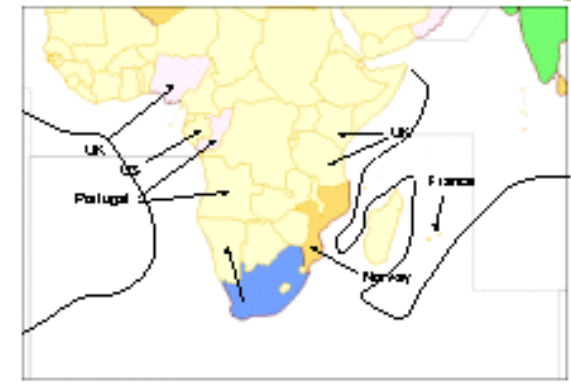
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### SA&IHC Coverage



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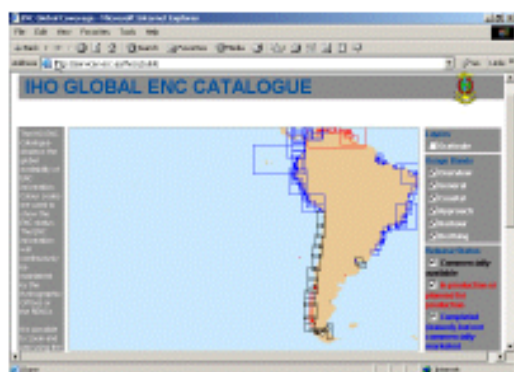
### SA&IHC Needs



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## SEPHC Coverage



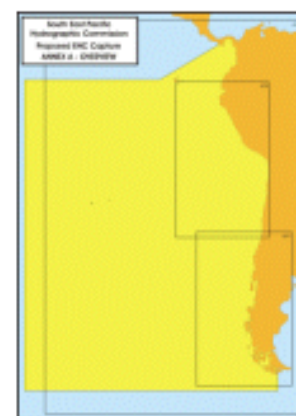
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## SEPHC Needs



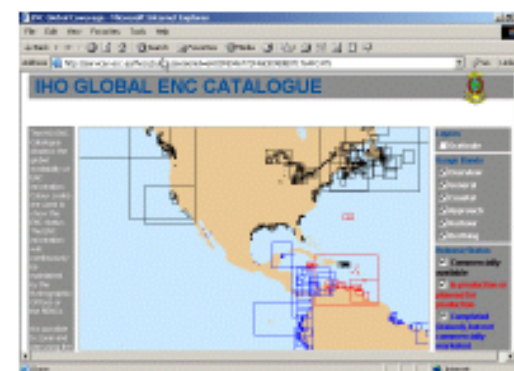
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## SEPHC Task Group Proposal



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## MACHC Coverage



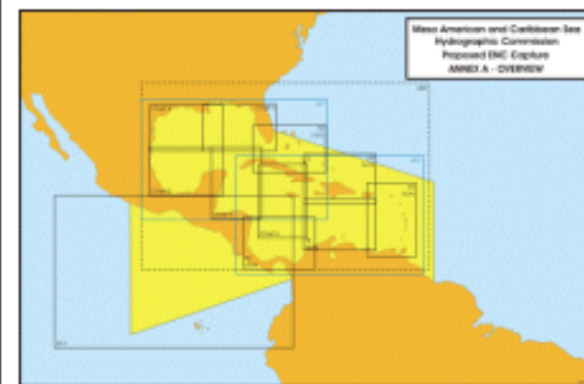
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## MACHC Needs



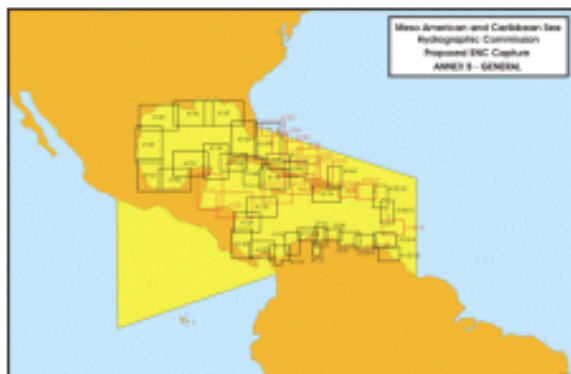
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## MACHC Task Group Proposal



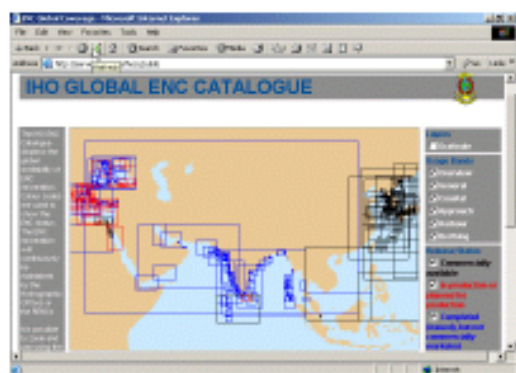
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## MACHC Task Group Proposal



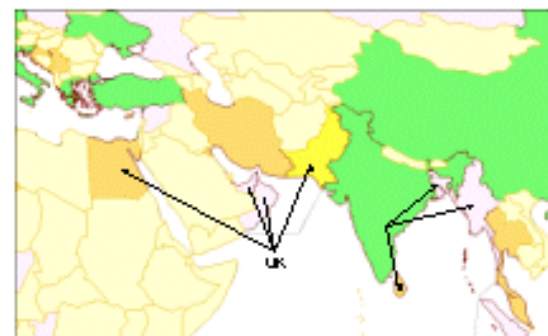
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## RSAHC & NIOHC Coverage



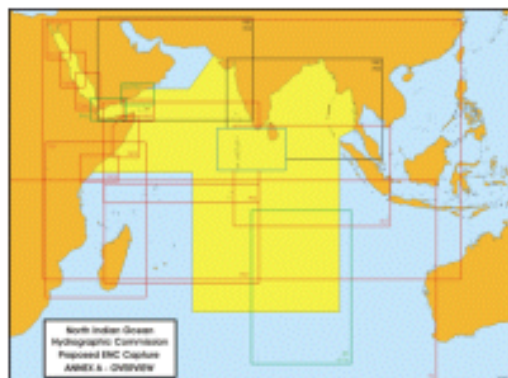
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## RSAHC & NIOHC Needs



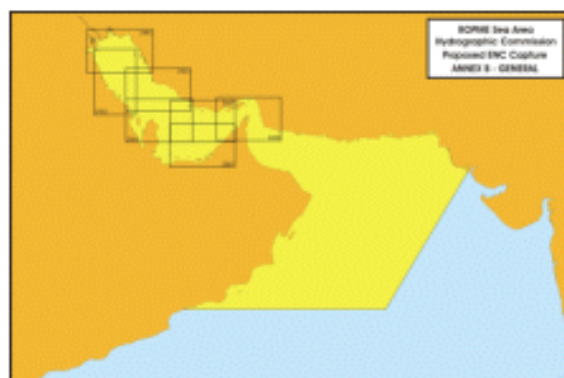
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## NIOHC Task Group Proposal



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## RSAHC Task Group Proposal

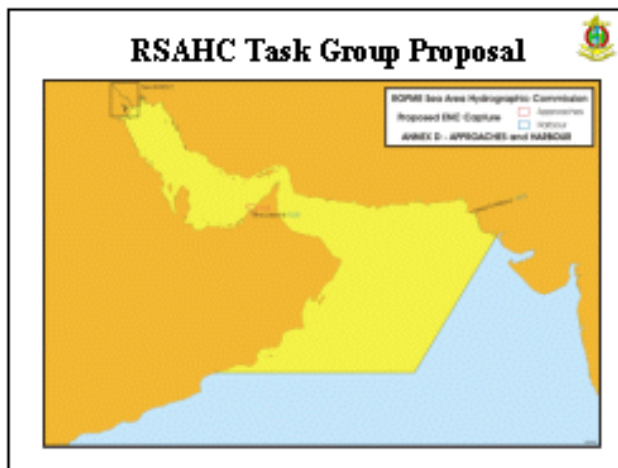


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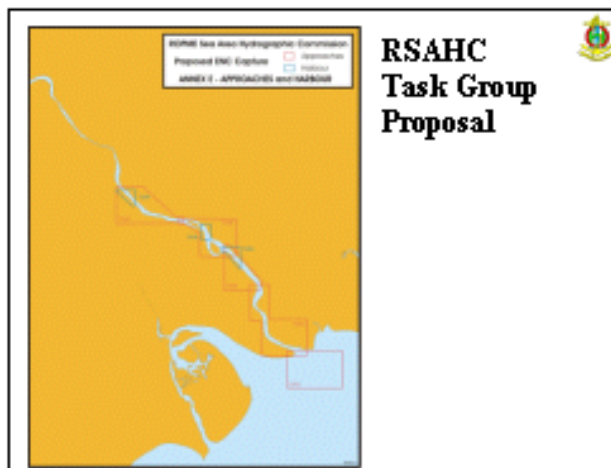
## RSAHC Task Group Proposal



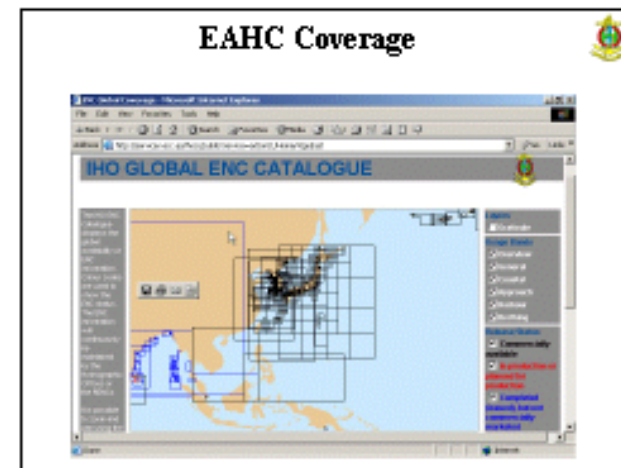
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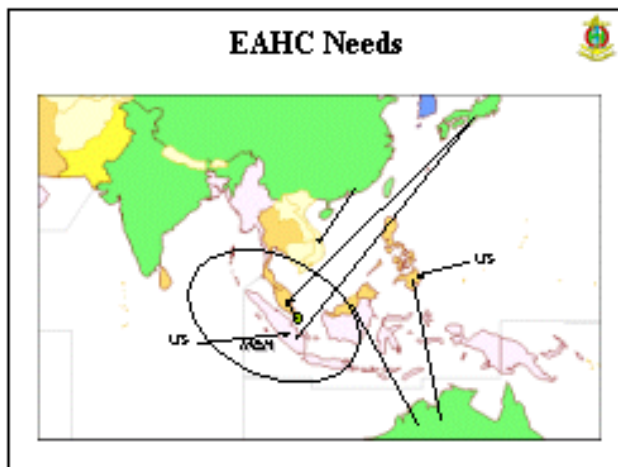
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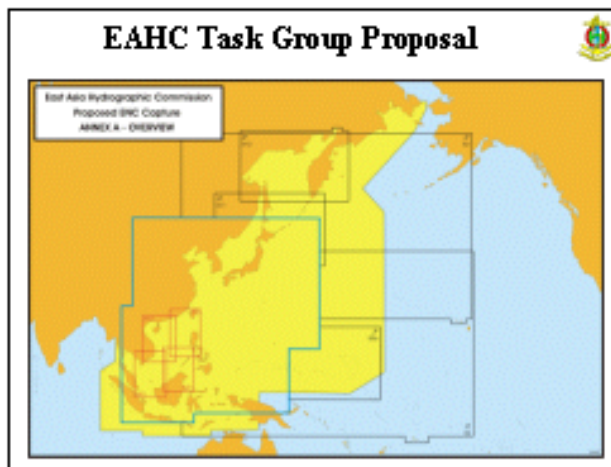
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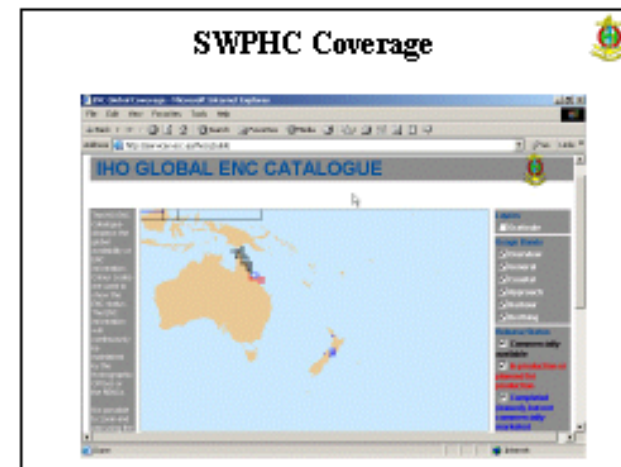
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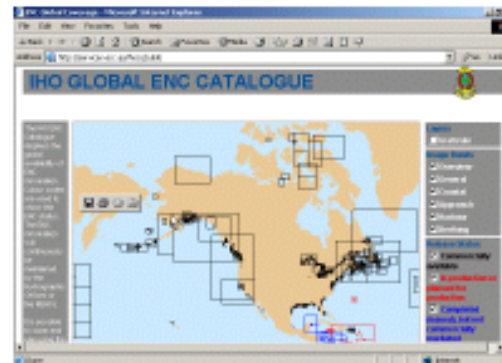


### SWPHC Needs



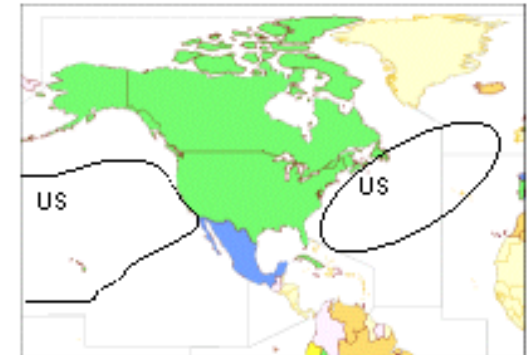
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### USCHC Coverage



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### USCHC Needs



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Discussion?



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