

**12<sup>th</sup> CHRIS MEETING**  
**Valparaiso, Chile, 23-25 October 2000**

**REVIEW OF IHO WORK PROGRAMME 2001**  
**(by John Leech, IHB)**

**Introduction**

Elements 3.1 and 3.4 of the IHO Work Programme identify the work being carried out by the WEND and CHRIS committees and their sub-committees. This work responds principally to the strategic issue of transition to the digital environment.

**Discussion**

In March 2000 the Extraordinary IH Conference approved the IHO inter-sessional Work Programme, which had been drafted by the SPWG after consultation with the Member States.

The Conference also approved in principle a planning cycle which requires that the Work Programme be reviewed annually.

The Chairman of the SPWG considers that the work listed in elements 3.1 and 3.4 of the Work Programme should be reviewed by the CHRIS, to ensure that it correctly reflects the Committee's views about content and priority. A copy of these elements of the Work Programme is attached.

**Action requested of CHRIS**

CHRIS is requested to review elements 3.1 and 3.4 of the Work Programme, and to pass any comments to the Chairman of the SPWG.

**Enclosure;** Extracts from IHO Work Programme.

## Enclosure to CHRIS Document

## Extract from IHO Work Programme

**Element 3.1 - Cartography and Hydrographic Information Services**

The principal tasks for this element will be

*Ongoing Tasks*

**Task 3.1.1** Continuation of the co-operative work on development of ECDIS services, particularly:

3.1.1.1 On-going refinement and expansion of specifications and standards through the CHRIS and its working groups, with links to the CSC and ISO, with current emphasis on:

W/G on Technical Standards etc [TSMAD]	}	
New edition of S-57 [Ed 3.1]	}	[HP]
W/G on Updating of ENC	}	

W/G on Colours and Symbols Maintenance	}	
W/G on Maritime Information Objects	}	
W/G on Data quality	}	
W/G on Standardisation of Nautical Publications	}	[MP]
W/G on Technology Assessment	}	
New edition of S-52	}	

3.1.1.2 Support and encouragement for the production and distribution of ENC data sets through the WEND Committee, the Northern Europe RENC, and other emerging vehicles such as the SHARED concept in South East Asia/Australasia and initiatives in the Caribbean [HP].

3.1.1.3 Involvement in the regulatory aspects of ECDIS through the IMO/IHO HGE, notably matters concerning ECDIS, RCDS, and ECS [HP].

3.1.1.4 Intensify the contacts with the international bodies representing private industry [umbrella organizations], to reduce potential conflicts and to maximise quality and availability of adequate digital nautical products, by inviting their participation in appropriate IHO forums [HP].

3.1.1.5 Participation in the testing and certification aspects of ECDIS through the IEC/TC80 [HP].

**Task 3.1.2** Continuation of participation in the development of standards for cartography and geographic information in association with groups such as DGIWG, ICA and ISO, in order to ensure that the interests of IHO members receive attention in the formulation of standards. Of particular current interest is the work of:

IEC/TC 80 [ECDIS] [HP]  
 ISO TC 211 Working Group 5 [HP]  
 European Union TENT-T Project [MP]

- Task 3. 1. 3** Continuation of the development of the international [paper] chart series through the work of the Chart Standardisation Committee, the Regional Hydrographic Commissions and the coordinators of INT Charting Areas [see also programme 1], particularly;
- 3.1.3.1 Development of new symbology for ship routeing, including archipelagic sea lanes, vessel traffic services, environmentally sensitive areas, etc [HP]
- 3.1.3.2 Progress of the work of the Committee for the Standardisation of Nautical Publications, particularly the development of standard formats for Notices to Mariners, and for Sailing Directions and other nautical publications [MP].
- 3.1.3.3 Resolution of issues concerning the extension of the INT chart scheme to include large scale charts [MP]
- 3.1.3.4 Development of policy on the integration of and transition between analogue and digital products [MP]
- 3.1.3.5 Consult with Member States on the need to establish specific standards for cartography in navigable rivers and inland waterways (see also 3.2.11) [MP].
- Task 3. 1. 4** Provide advice and technical assistance to Member States on request, especially advice on cartographic systems and processes, and advice on the construction of national chart schemes [MP].
- Task 3. 1. 5** Provide advice on the content of courses in cartography and spatial data management [MP].
- Task 3. 1. 6** Provide advice and technical assistance to users of IHO standards, whether from Member States or Industry [MP]
- Task 3. 1. 7** Revise, develop, and maintain the following publications:
- S-52, S-57 [HP]  
 M-4, M-11, S-23, [MP]  
 S-59 [LP]
- Task 3. 1. 8** Produce graphics for the digital versions of publications M-4, M-11 [HP]

### **Element 3.4 - Data for GIS and other Applications**

The principal tasks under this heading are :

#### *Ongoing Tasks*

**Task 3.4.1** To assist member states to optimise and extend the use of their hydrographic data sets for purposes other than navigation through;

- 3.4.1.1 Monitoring of developments around the world, especially those connected with coastal zone data management and the development of national, regional and global spatial data infrastructures **[HP]**.
- 3.4.1.2 Exchange of information about effective practices, popular services and products, media for distribution, pricing, customer profiles, market research etc **[HP]**.
- 3.4.1.3 Development of generic product and service specifications **[HP]**.
- 3.4.1.4 Encouraging the holding of workshops, conferences and training on the above subjects **[MP]**.
- 3.4.1.5 Engagement in the process of development of the interpretation of the law of the sea through the ABLOS group. **[HP]**

**Task 3.4.2** Continuation of participation in the development of standards for cartography and geographic information, and the alignment of IHO standards with more general standards for spatial data, through the work of:

ISO TC 211 Working Group 5 **[HP]**  
 European Union TENT-T Project **[MP]**  
 Global Spatial Data Infrastructure **[MP]**  
 ICA Commission on Spatial Data Standards **[MP]**

**Task 3.4.3** To continue to contribute to the development of world-wide ocean and shallow water mapping through:

- 3.4.3.1 Encouraging member states to contribute data for international ocean mapping **[MP]**.
- 3.4.3.2 Continuing development of the digital data centre at Boulder, Colorado **[MP]**.
- 3.4.3.3 Re-affirming the role of Hydrographic Offices in collecting and managing digital bathymetric data for GEBCO and ocean mapping projects **[HP]**.
- 3.4.3.4 Participating in the definition and development of GEBCO and IOC products and projects **[HP]**.
- 3.4.3.5 Participation in the IOC sponsored regional international bathymetric chart **[LP]**
- 3.4.3.6 Co-operating with IOC and the United Nations in monitoring the naming of undersea features in international waters **[LP]**
- 3.4.3.7 Providing an information service for Oceanographic matters **[LP]**

**Task 3.4.4** Revise, develop and maintain the following publications ; B-2, B-4, B-6, B-7, and B-8 **[MP]**

### List of Key Targets [KT]

- KT 3.1 Complete the regulatory aspects of ENC/RNC by end 2000.
- KT 3.2 Co-ordinate and publish regional ENC production and service plans, commencing with Europe in 2000, followed by North America, South East Asia and the Caribbean by 2001, South West Pacific and South America by 2002.
- KT 3.3 Ensure that the target dates of committee and working group work plans are adhered to.
- KT 3.4 Develop a co-operation agreement with DGIWG and ISO/TC 2111 by end 2000.
- KT 3.5 Prepare a report on proposed IHO Manual of Hydrographic Surveying by end 2000
- KT 3.6 Complete “Standards of Competence for Nautical Cartographers” and submit to Member States by end 2001.
- KT 3.7 Complete the revision of the GEBCO Guidelines by end 2000.
- KT 3.8 Publish new edition of listed publications by the following dates;
- M-4 Digital form E,F,S by mid-2000
  - M-5 E, F, S by end 2000
  - M-6 E, F, S, by March 2000
  - M-11 Sections J, M, C1 and C2 by mid-2000 [update other sections]
  - M-12 E, F, S by mid-2000
  - S-23 End 2001
  - S-59 Digital form by mid-2000
  - B-2 Digital form by end 2000
  - B-4 Digital Form by mid –2000
  - B-6 E/F and E/S, digital, by end 2000
  - B-8 Digital, end 2000
  - S-57 Edition 3.1 by end 2000