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**CIRCULAR LETTER 32/2001
11 July 2001**

**FIRST MEETING OF THE WORKING GROUP ON THE IHO
MANUAL ON HYDROGRAPHY
Monaco, 20-22 June 2001**

References: - IHB CL 37/2000 dated 4 September 2000
- IHB CL 8/2001 dated 9 February 2001.

Dear Sir,

The First Meeting of the Working Group on the IHO Manual on Hydrography was held at the I.H. Bureau from 20 to 22 June 2001. The following countries participated: Argentina, Australia, Chile, Germany, Italy, Pakistan, Portugal, Spain, and the UK. The Working Group meeting was chaired by Captain H. Gorziglia (International Advisor, SHOA, Chile).

The President of the Directing Committee, Rear Admiral Giuseppe Angrisano, in his opening remarks drew the delegates' attention to the fact that the creation of an IHO Hydrographic Manual was in line with the Strategic Plan requirements (achievement of an adequate global hydrographic data coverage and provision of services other than for navigation).

The Chairman, Captain Hugo Gorziglia (Chile), thanked the participants for attending the first meeting of the Group and briefed them with background information regarding the mandate given by Member States. Reference was made to IHB CLs 37/2000, 8/2001 and other correspondence received from nominated Members who had not been able to attend this meeting.

The Group reviewed the Terms of Reference and the Terms of Procedure approved by Member States.

The Chairman gave his views in relation to the scope of the task, including the aim of the publication and identification of end users. The Group agreed that the Manual's content should be a balance between conceptual matters required to understand hydrographic operations, the procedures and methodologies used, and a sort of practical guideline for conducting a hydrographic survey. Also, the Manual should provide references to enable the user to find more specific and detailed information. It was agreed that no mention should be made of any brand of instruments.

As regards the format to be adopted, it was agreed that, for the time being, a digital version of the Manual would be produced, and to provide maximum access to it by a wide range of users through the IHO web site.

The Group thoroughly reviewed the Draft Table of Contents which had been circulated to Member States under cover of CL 37/2000. After a detailed examination, the Group agreed to make the following major changes, and some other minor modifications to improve the content:

- a) Deletion of Mathematics, Statistics, Computation and Physics from the former Chapter I "Previous Fundamental Knowledge".
- b) Introduction of a new Chapter entitled "Topographic Surveying".
- c) Deletion of former Chapter VII "Special Hydrographic Surveys".

Taking into account each member's personal experience and background, the WG identified Task Team Leaders, with the responsibility for the development of all Chapters in accordance with the Table of Contents. (See the Action Sheet in Annex A herewith).

The Group, in the light of the discussions and results of the meeting, agreed upon a Work Programme which envisages the completion of this challenging task in two years, and at the same time identified the need to convene a second meeting in February 2003. The exact date and place will be decided one year in advance of the above mentioned time period, to facilitate arrangements and to ensure the participation of as many WG members as possible.

Member States, with key staff members experienced in this domain, should feel free to contact the Team Leaders and offer their assistance in the development of specific items, in any of the identified chapters of the Manual.

The Directing Committee wishes to thank the Chairman and those Member States who have made staff members available for this important task.

On behalf of the Directing Committee
Yours sincerely,



Rear Admiral Giuseppe ANGRISANO
President

Encl: Annex A

IHO Manual on Hydrography
ACTION SHEET-LEADER TEAM IDENTIFICATION (22 June 2001)

PREFACE Captain Hugo M. Gorziglia (CHILE)

- ?? *Justification of the publication.*
- ?? *Hydrographic Manual objective.*
- ?? *Details of the Hydrographic Manual content.*
- ?? *Updating procedures.*

TABLE OF CONTENTS Captain Hugo M. Gorziglia (CHILE)

INTRODUCTION Captain Hugo M. Gorziglia (CHILE)

- ?? *Brief history of hydrography.* Author identified : Adm. Ritchie
- ?? *Importance of Hydrography*
- ?? *Fields of competence associated with hydrography.*

CHAPTER I "PRINCIPLES OF HYDROGRAPHIC SURVEYING" Captain M. Zafaryab (PAKISTAN)

- ?? *Introduction.*
- ?? *Conceptual specifications.*

CHAPTER II "POSITIONING" LCDR Lamberto Lamberti (ITALY)

- ?? *Introduction*
- ?? *Principles of positioning*
- ?? *Horizontal Control methods*
- ?? *Vertical control methods.*
- ?? *Instruments used to establish horizontal and vertical control*
- ?? *Positioning methods.*

CHAPTER III "DEPTH DETERMINATION" LT Fernando FREITAS (PORTUGAL)

- ?? *Introduction*
- ?? *Acoustic fundamentals*
- ?? *Transducers*
- ?? *Acoustic Systems*
- ?? *Non acoustic systems*

CHAPTER IV "SEA FLOOR CLASSIFICATION AND OBJECT DETECTION"

LCDR Peter Johnson (AUSTRALIA)

- ?? *Introduction*
- ?? *Sea floor classification*
- ?? *Sea floor object detection*

CHAPTER V "WATER LEVELS AND FLOW" Commander Jerry Mills (USA)

- ?? *Introduction*
- ?? *Tides*
- ?? *Tidal currents*
- ?? *Water level variation not associated with tides*

CHAPTER VI "TOPOGRAPHIC SURVEYING" Mr. Federico Mayer (ARGENTINA)

?? Introduction

?? Topography: Coast line delineation and Aids to navigation positioning

?? Remote Sensing

CHAPTER VII "HYDROGRAPHIC PRACTICE" LCDR Bob Wilson (UK)

?? Introduction

?? Hydrographic survey planning.

?? Survey reconnaissance

?? Horizontal and vertical control

?? Depth determination

?? Sweeping and object detection

?? Water level observation

?? Water flow observation

?? Coastline delineation

?? Hydrographic Survey Final Records.

ANNEXES:	All
FIGURES:	All
TABLES:	All
REFERENCES:	All
BIBLIOGRAPHY:	All