

**INTERNATIONAL HYDROGRAPHIC
ORGANIZATION**



**ORGANISATION HYDROGRAPHIQUE
INTERNATIONALE**

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**CIRCULAR LETTER 74/2007
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EQUIPMENT NEEDS OF THE HYDROGRAPHIC OFFICE OF CUBA

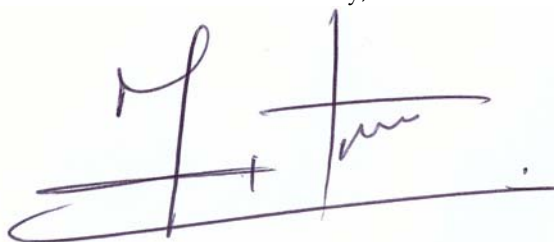
Dear Hydrographer,

1 On different occasions the Directing Committee has had discussions with the Director and other Officials of the Cuban Hydrographic Office, about their needs and requirements to enhance their hydrographic and cartographic capabilities.

2 The Cuban Hydrographic Office needs to provide the services required under Regulation 9 of Chapter V of SOLAS, to train the Cuban hydrographic and Navy Staff in order to carry out these services in the best possible way and contribute to the issues affecting safety at sea and protection of the marine environment.

3 In order to face these demands and requirements the Cuban Hydrographic Office is in need of different equipment which is listed in the annex. Member States are kindly requested to inform the Bureau, at their earliest convenience and no later than 31 October 2007, whether they have means to provide support of the equipment indicated in the annex.

On behalf of the Directing Committee
Yours sincerely,



Vice Admiral Alexandros MARATOS
President

Annex: List of equipment

HYDROGRAPHY AND NAUTICAL CARTOGRAPHY SUPPORT FOR
CUBAN HYDROGRAPHIC OFFICE

1. ECDIS and associated software packages (dKart OFFICE) for training purposes (for 10 work stations operating in a network)
2. Digital photogrammetric station
4. Multibeam echo sounder with accessories
5. Robust Portable Computer
6. Portable side scan sonar
7. Single beam conventional echo sounder
8. Motion sensor (pitch and roll)
9. CTD probe
10. Differential GPS
11. Real time digital tide gauge with transmission system
12. Geodetic GPS station for high precision surveying
13. Total station for topographic surveying
14. Laser level
15. Didactic videotapes, multimedia and other digital material to improve the knowledge of experts. Text books for the different special fields.