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PROVOR

PROCEDURE OF DEPLOYMENT OF PROVOR PER LOSABLE CRATE

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Evolution							
Nom Dépt / Service Entreprise	**Visa**	**Nom Dépt / Service Entreprise**	**Visa**	**Nom Dépt / Service Entreprise**	**Visa**	**Date**	**Ind.**
Rédigé par		**Vérifié par**		**Approuvé par**		**Version**	

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TABLE DES MATIERES

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1. Purpose of document

Description of operation in order to deploy the PROVOR floats with the losable launching crates.
Operations will be noted in the deployment of PROVOR floats sheet in the appendix.

Please refer to the user's manual.

2. Reference documents

- PROVOR CTS2 ref Martec DOC03110 ind A
- mission report MFSTEP1 D590702a

3. Description of the means of deployment

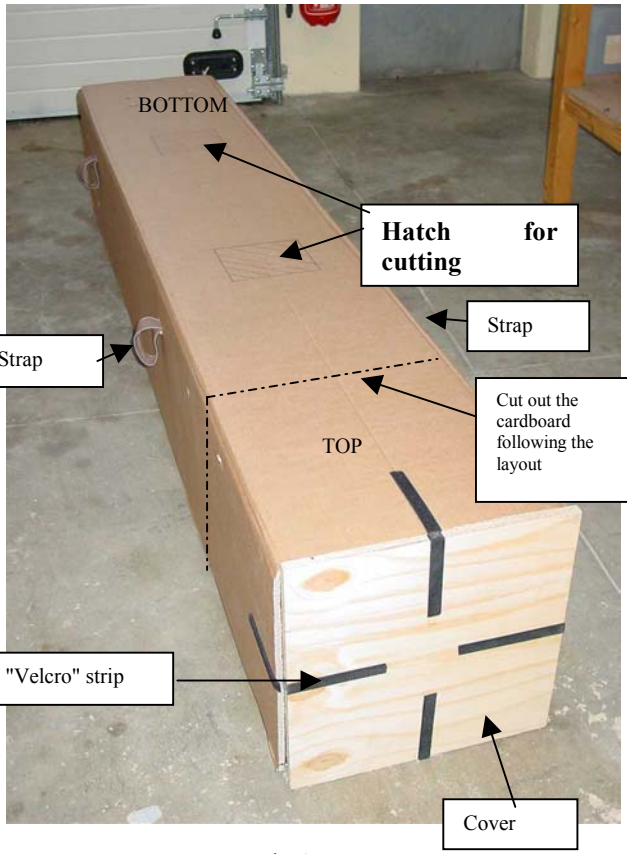

Fig 1

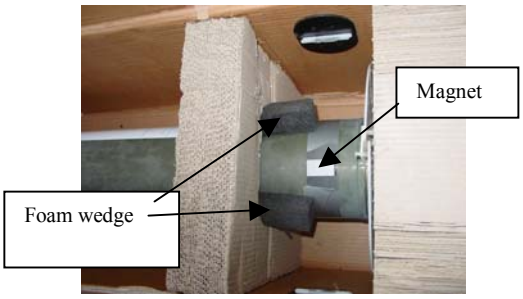

Fig2

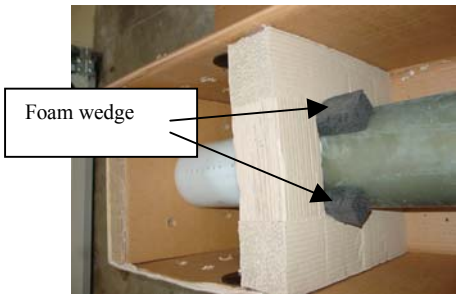

Fig3

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The losable crate ,drawing C490310B (fig1) is used for the PROVOR shipment as well as the deployment. The float which is armed is positioned inside ; the magnet is directed to the top (fig2). It is maintained in the 2 cardboard blocks by 4 holds placed in the higher angles (fig 2 &3).

Dimensions of the crate: 2.40* 0.40 * 0.40 m , weight ~13 kg.
weight of the float: ~33 kg.

4. Course of the deployment

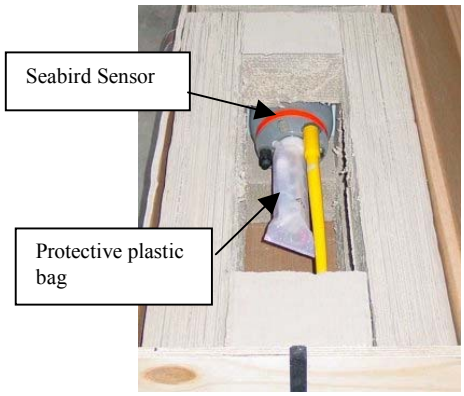
4.1 Necessary means

- 2 persons for the launching of the crate,
- 1 stanley,
- 1 stethoscope,
- if possible an Argos receiver,
- if possible 2 ropes to go down the crate (according the height of the deck).

4.2 Course of the operations

The deployment is preferably carried out at fallback speed, some knots, leeward side, or at the back of the ship.

- Extract the cover by withdrawing the Velcro bands which retain it. Cut out with the cutter the top of the cardboard according to the layout.
- In case of a Seabird sensor, withdraw the plastic bag of the CTD circuit as well as the 3 plugs, connected by a string, blocking the openings .



- Cut out with the stanley the 2 marked positions in order to realize the 2 hatches.
- By the bottom hatch, remove the 2 foam wedges.
- Perform the same operation with the top hatch.
- Approximately 15 with 20mn before arriving on the point of launching, remove and move away the magnet maintained by adhesive tape (top hatch). The float performs a couple of checks. 5 Argos emissions of approximately 20s are generated at the end of 2/3mn. If a Argos receiver is available, check the reception of the float's ARGOS ID as well as the received level.

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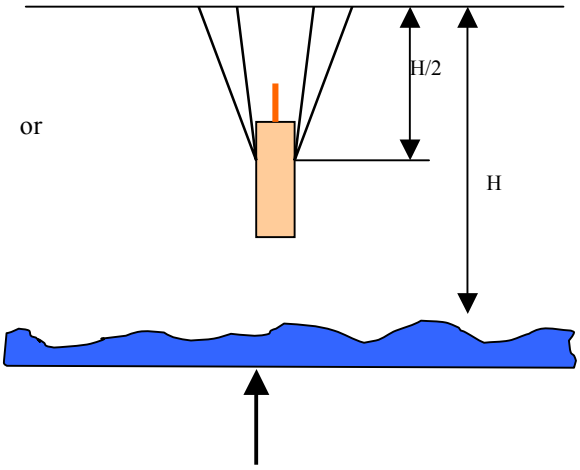
The effective departure of the mission of the PROVOR is materialized by 10 successive clicks of the electrovalve, separated from 0.5s. 10/11 mn after removing the magnet, check the clicks introducing the stethoscope by the bottom hatch on the hull of the PROVOR. If the clicks are not detected after 13mn, a new test can be tried replacing the magnet on the hull of the float (located nominal position) during ten seconds. Try again removing the magnet and check the 10 clicks 10mn afterwards.

- The clicks have been heard, you can proceed to the deployment of the float without precipitation.
- Put the bottom of the crate overboard. The crate is maintained by 2 persons with the 2 straps. Overflow then rock the crate vertically maintaining it by the straps. The launching is carried out with a few meters of water, the launching of the straps being done simultaneously. (cf mission report MFSTEP1 D590702a)



If the deck of the ship is too high, the crate can be seized by a rope double in each strap (with possible intermediate ring) in order to approach the crate of water before launching. It should however be taken care that the launching is carried out with more half the height of the edge, so that the ropes emerge from the straps before the cardboard touch water.

Once at water, the crate lies down and fills gradually. It rocks then vertically and sinks, releasing the float. This phase takes a few minutes. If possible, notice the good course of operation until the vanishing of the crate.

5. Appendix

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DEPLOYMENT OF PROVOR FLOATS SHEET

CAMPAIGN:
SHIP:

S/N Float:

Project:

Argos ID (dec):

Date of mission launching:
Hour of mission launching (UT)

Date of deployment:
Hour of deployment (UT)
Position of deployment: Lat: Long:

Sea status:
Height of the swell:
Means for deployment:
Level of the float's emergence after deployment (visual observation)

Observations: