

CHAPTER 14

A14.0	AUTOMATIC RELEASE MECHANISM AND AUTOMATIC ACTIVATION TESTS
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14-1 TEST SPECIFICATIONS AND PROGRAMME

The automatic release mechanism and the assembly is mounted on a fixture simulating a deck or a bulkhead as per manufacturer's instructions.

The fixture is then submerged in water as specified in RTCM document " Recommended Standards for 406 MHz Satellite EPIRBs, Version 2.0 Feb 5,1997", appendix A, section A14.0.

The EUT must float free before reaching a depth of 4 meters and must automatically active .

11.2. EQUIPMENT UNDER TEST

Beacon Unit : 1/2
Name : JOTRON
Type : TRON 40GPS
Number : 7000

14.3. TEST SITE

Toulouse Fire Station VION - Beacon certification laboratory .

14.4. TEST EQUIPMENT

- Climatic chamber : CLIMATS F.C.H. – Type: Austral 137H60/1,5E - S/N: S4880.
- Dive well .
- Cospas/Sarsat Receiver : SERPE-IESM RMD01 S/N 004996
- Argos - Cospas/Sarsat Test Bench

14.5 TEST IMPLEMENTATION AND RESULTS

TOULOUSE :Dive well of Fire Station VION

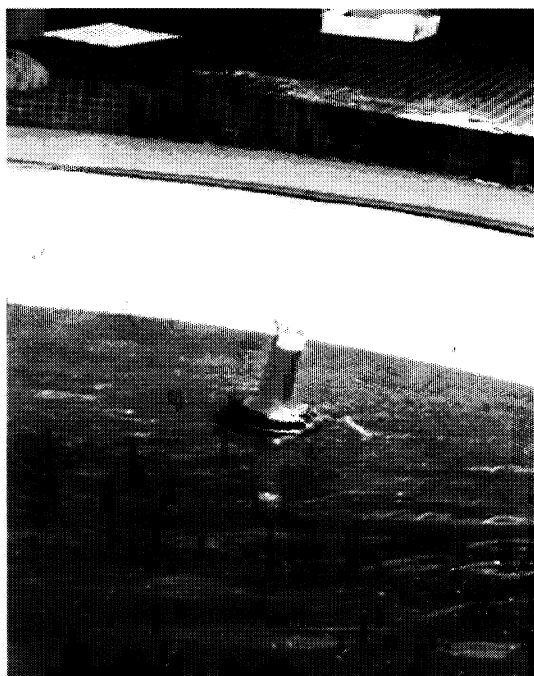
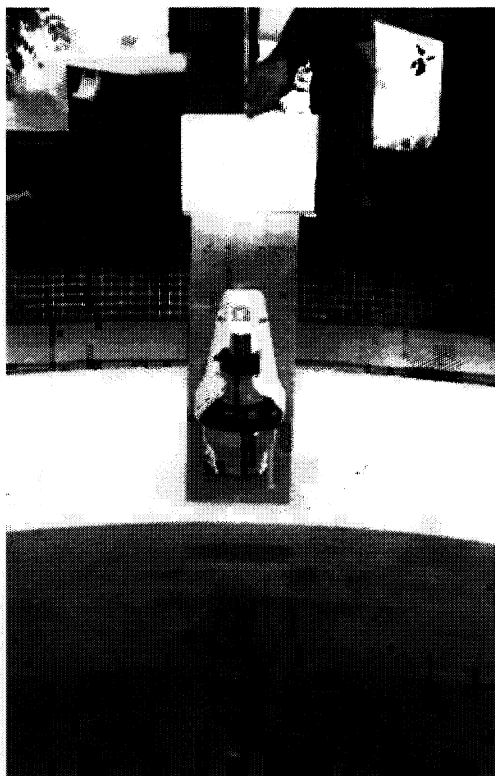
28 June 2000, 16 :00 EPIRB TronGPS S/N 7000 into oven at stowage temperature -30°C

TEST A14 : Automatic Release and Automatic Activation

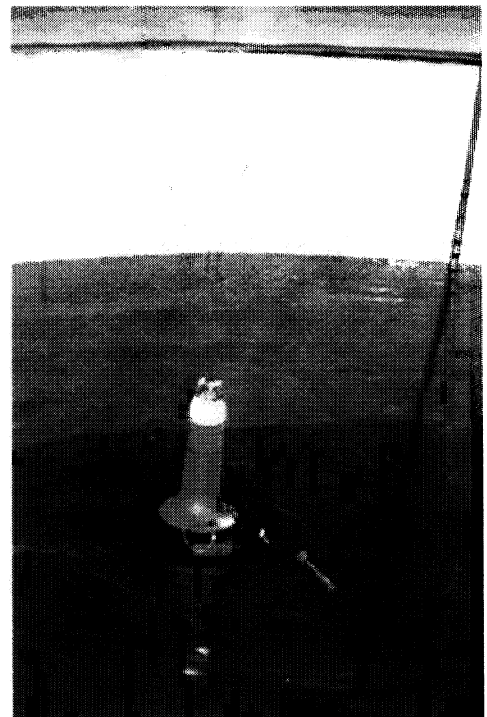
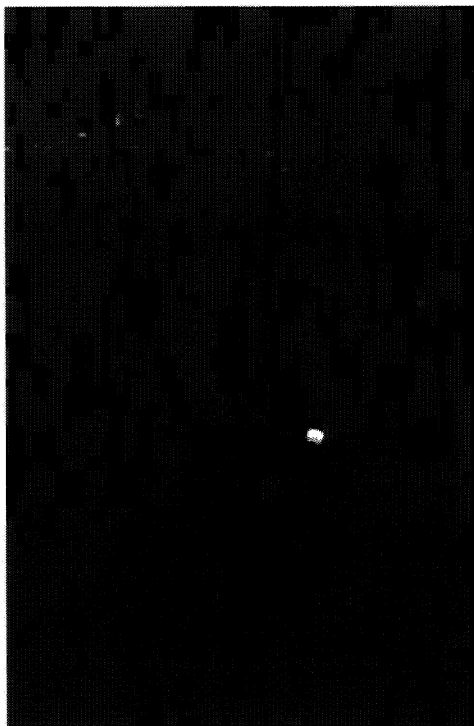
	Stowage temp.	Date/Hours	Deep releasing	Mechanical control	Electrical control
CONFIGURATION 1  Normal mounted orientation	1a -30°C	29June 2000 09:00	3.90 m	OK	OK
	1b $+70^{\circ}\text{C}$	29June 2000 16:00	3.05 m	OK	OK
	1c $+22^{\circ}\text{C}$	29June 2000 09:45	3.15 m	OK	OK
CONFIGURATION 2  Rolling 90° starboard	$+22^{\circ}\text{C}$	29June 2000 10:10	3.30 m	OK	OK
CONFIGURATION 3  Rolling 90° port	$+22^{\circ}\text{C}$	29June 2000 10:35	3.00 m	OK	OK
CONFIGURATION 4  Pitching 90° bow down	$+22^{\circ}\text{C}$	29June 2000 11:00	3.15 m	OK	OK
CONFIGURATION 5  Pitching 90° stern down	$+22^{\circ}\text{C}$	29June 2000 11:20	3.10 m	OK	OK
CONFIGURATION 6  Upside-down	$+22^{\circ}\text{C}$	29June 2000 11:40	3.25 m	OK	OK

See photo next pages

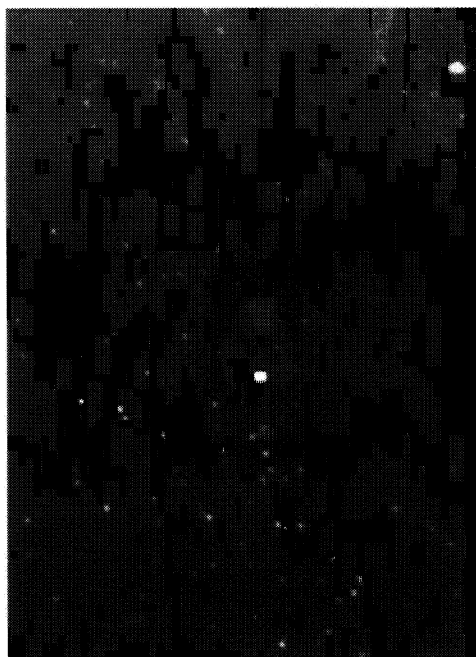
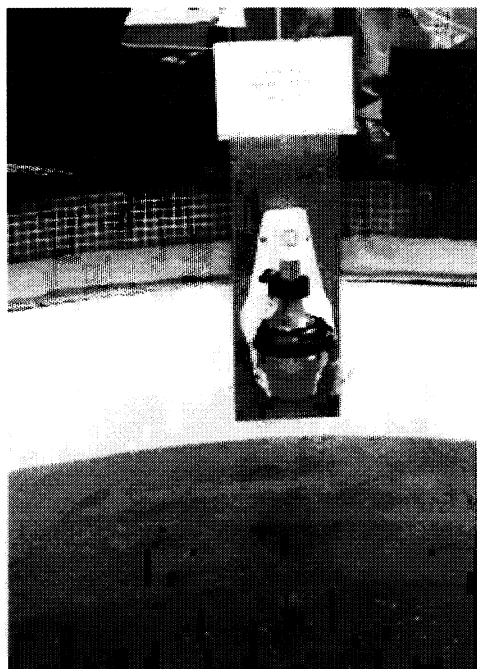
CONFIGURATION 1 a
Normal mounted orientation at - 30° C



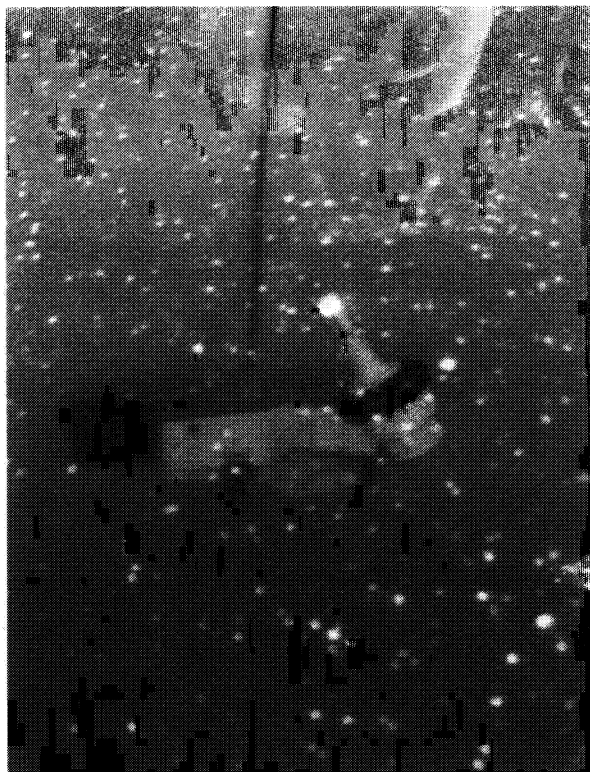
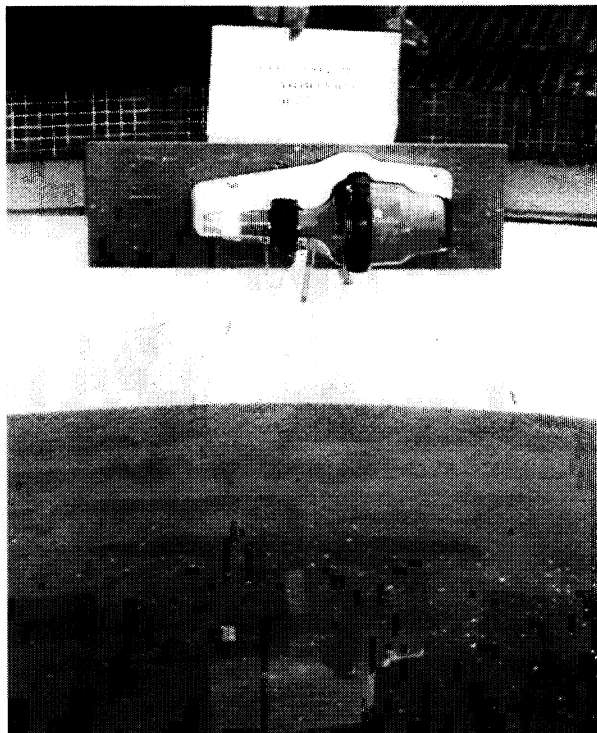
CONFIGURATION 1 b
Normal mounted orientation at + 70° C



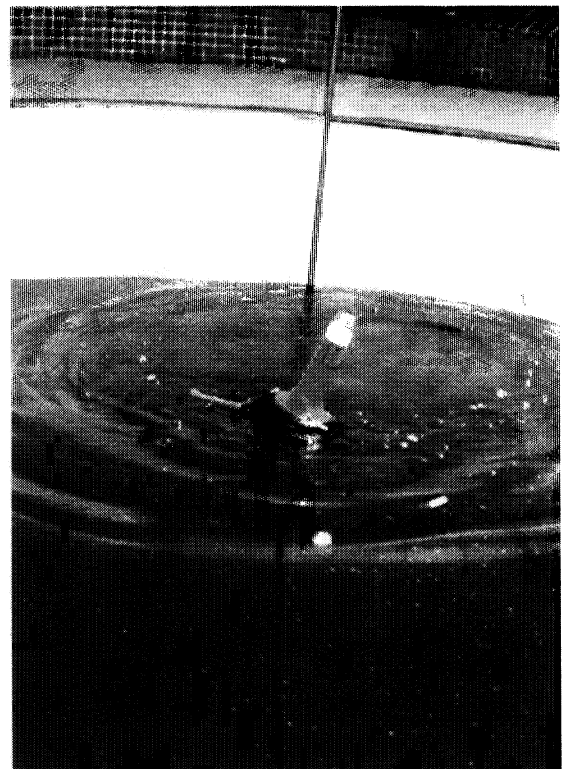
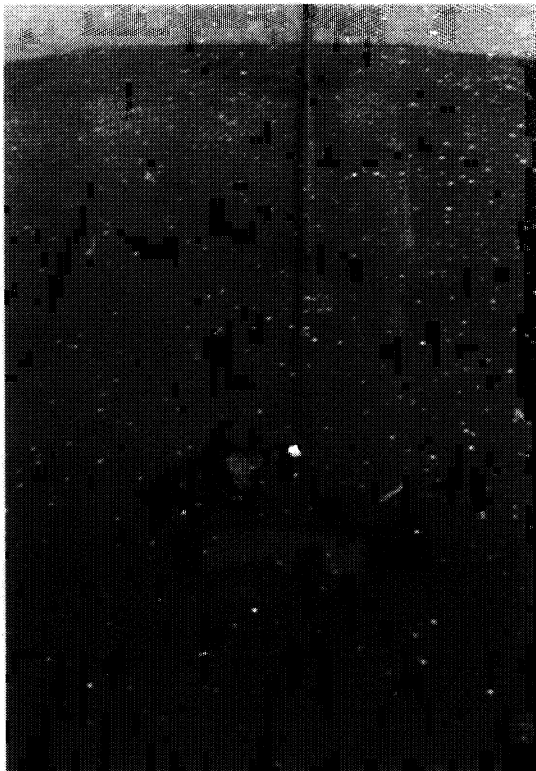
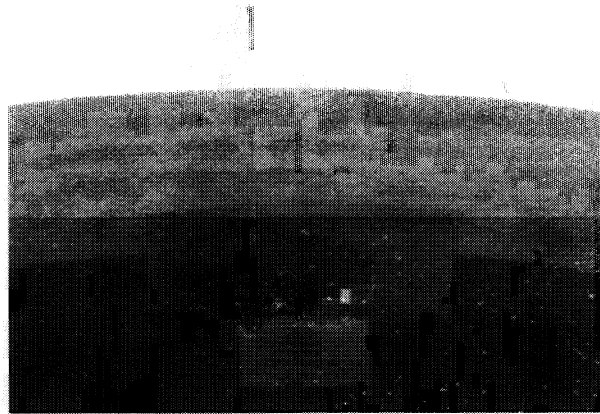
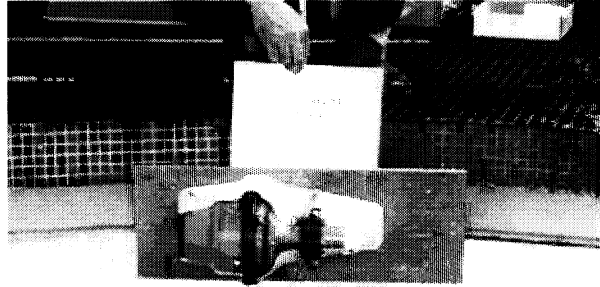
CONFIGURATION 1 c
Normal mounted orientation at + 25° C



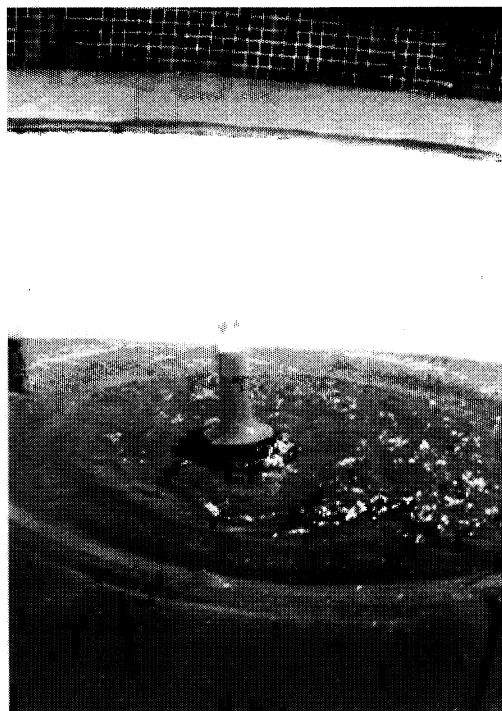
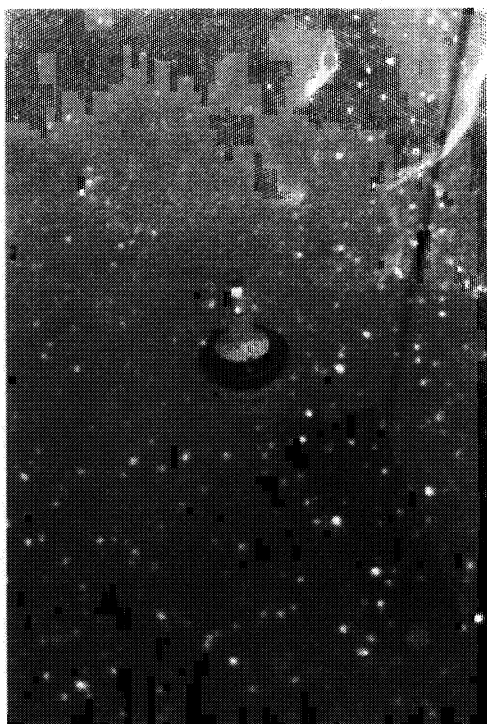
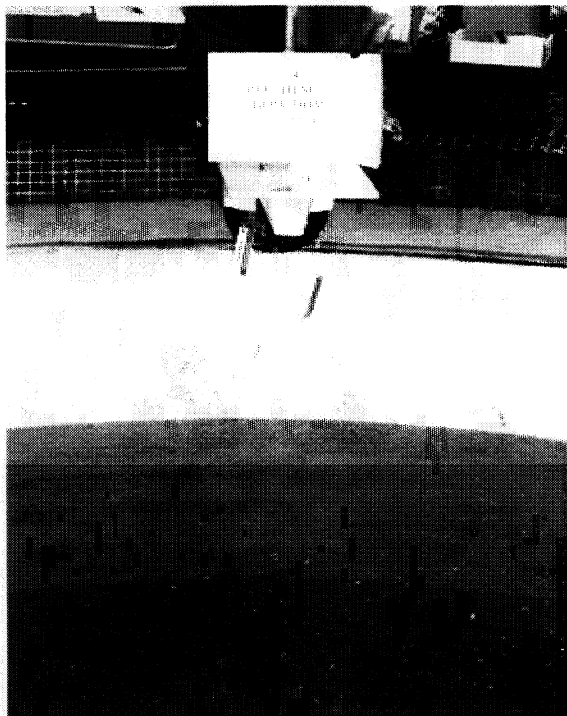
CONFIGURATION 2
Rolling 90° starboard at + 22° C



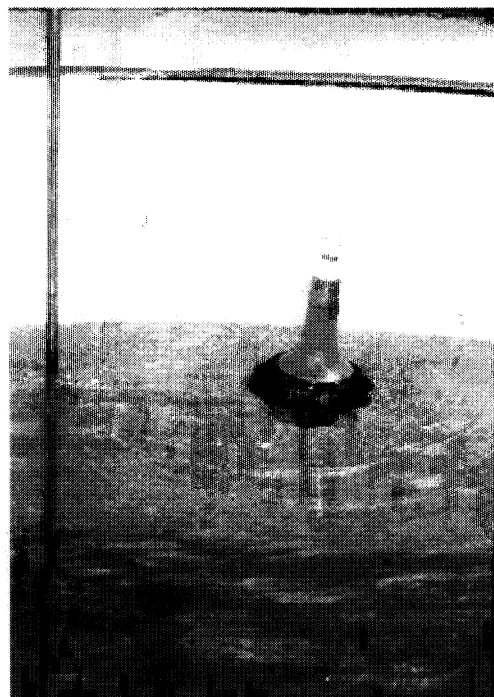
CONFIGURATION 3
Rolling 90° port at + 22° C



CONFIGURATION 4
Pitching 90° bow down + 22° C



CONFIGURATION 5
Pitching 90° stern down + 22° C



CONFIGURATION 6

Upside down + 22° C

