Argo-España

Parte de la estrategia global de observación del océano

Report on Argo float WMO 6901249 deployment

ARGO ESPAÑA - IEO / 17 - 27

Deployment for Argo float WMO 6901249

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Deployment Design

Taking into account the distribution of the Argo floats in the western Mediterranean, a gap was identified, between the coast of Algeria and the Balearic Islands. Thus, Argo Spain and SOCIB worked together to carry out a deployment of an Arvor - I float at the study area and thus, extending the coverage of the Argo network in the western Mediterranean. The deployment was carried out in *Canales '17* survey from the R/V *Catamaran SOCIB* under the supervision of SOCIB team with no remarkable issues during the deployment. There is no CTD cast at the deployment location. Moreover, Coriolis was notified February 22, 2017 and all the information was registered at Argo Information Center database. Technical details are showed next:

Transmision system	IRIDIUM
Transmission ID	463598 n/a
Platform Model	ARVOR 70-10-596 C147542-0020
Platform ID	IEO
Sensors	DRUCK-2900PSIA SBE41CP-V3 SBE41CP-V3
Sensores s/n	5760 5760 5760
Data Centre (Format Version)	IF (3.1)
Project Name	ARGO SPAIN
Float Owner	SOCIB
PI Name	VELEZ BELCHI Pedro
Parking Depth (dbar)	350 (0350 0350 0350 0350)
Profile depth (dbar)	700 (2000 0700 2000 0700)
Status	Active
Deployment Date	16-Feb-2017 00:00:00
Deployment Position	Lat 38.56 Lon 0.60

Table 1. Technical information of the float.

The checklist was firstly reviewed on land, full auto - test done, and double checked at the pre-deployment. The parameters MC2, MC3, MC11, MC12, MC13, MC14 and MC15 were modified according to scientific requirements. The deployment was developed according to the nine days surface currents forecast. The estimated deployment position according to the predictions was set at the third West - East transect between Valencia - Ibiza. Deployment operators: *Benjamín Casas and Irene Lizarrán.*

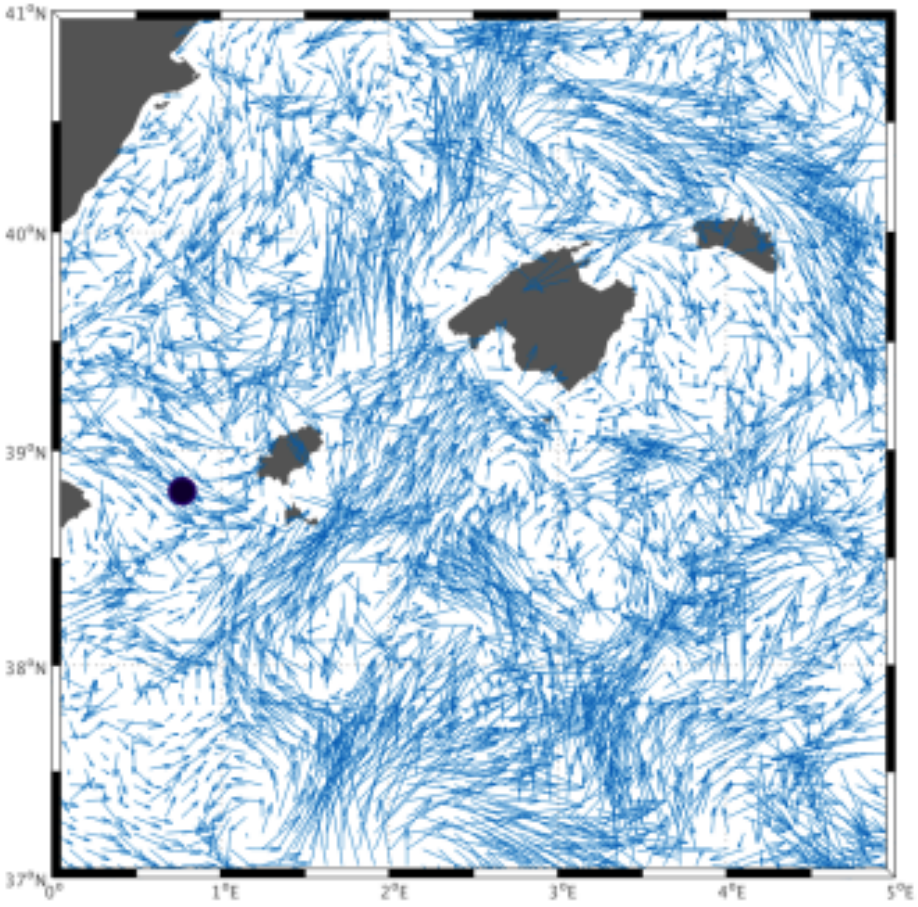

Figure 1: Ocean surface currents forecast for WMO 6901249 from the SOCIB modelling facility for May 15,2017.

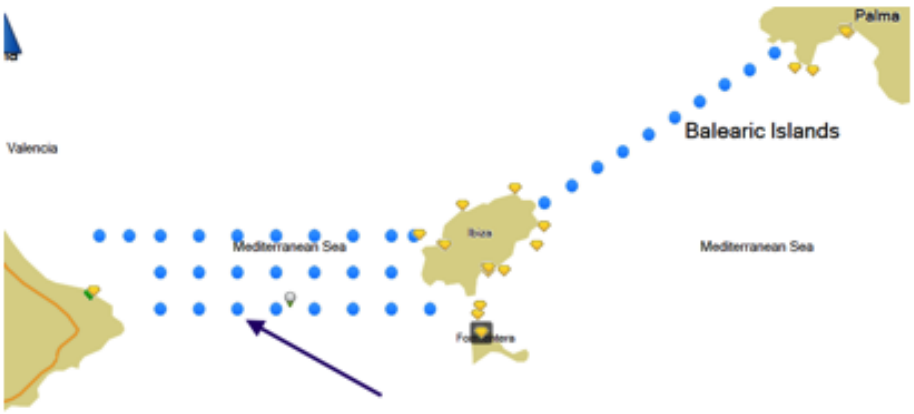

Figure 2: Estimated deployment position for WMO 6901249.

nke INSTRUMENTATION	FLOAT DEPLOYMENT QUICKSTART & CHECKLIST	33-16-035 QSTART & CHECK	
	ARVOR-I & PROVOR-I FLOAT	Rev : 0	Page 7/8

7. COMMENTS

You must notice here comments for deployment description (Timing information could be requested) :

ARGO PROJECT INFORMATION	
PI_NAME	PEDRO VELEZ
PROJECT_NAME	ARGOS.
PLATFORM INFORMATION	
PLATFORM_MODEL	ARVOR I
PLATFORM_MAKER	
ARGOS PGM Number (Argos program)	167493
BT NUMBER	2016 060135
FLOAT SAIL ID	
SERIAL NUMBER (14 characters)	AI 2600 16 SP 001
WMO NUMBER	6901249
FIMWARE VERSION	
IRIDIUM IMEI	300 23 4064 63 5980
DEPLOYMENT INFORMATION	
DEPLOY_MISSION (cruise_name)	SOCIB CANALES WINTER17
DEPLOY_SHIP (ship_name)	SOCIB
DEPLOY_AVAILABLE_PROFILE_ID (CTD or XBT available: yes/no)	+ Prof CTD + GLIDER S2-21
Magnet removal time (dd/mm/yyyy hh:mm UTC)	16/02/2017 10:55
Buzzer activation time (Step 10 : dd/mm/yyy hh:mm UTC)	11:10
DEPLOYMENT TIME (dd/mm/yyyy hh:mm UTC)	16/02/2017 11:44
LATITUDE	38° 47 737 N
LONGITUDE	0° 35 851 E
BATHY (m)	813m.
Operator name	B Casas I Ligarán
Deployment method (release box, manual, expendable cardboard, etc...)	MANUAL
Meteorology	OPTIMA.
Expected date of the first ascending profile (dd/mm/yyyy hh:mm UTC)	21/02/2017

SCB-ARV021002

(*) : Delay before mission is a Mission Parameter. Parameter number depends on float's firmware version. Check User manual, to know parameter number (MC 6 is number for Standard ARVOR & PROVOR float).

Figure 3: Float Deployment Quickstart and Check List 1.

6. CHECKLIST

Test	Description	Expected Result	Result
	Check before deployment		
1	Visual inspection	No scratch, good general state	☑ OK
2	Magnet Position	Magnet placed on ON/OFF position	☑ OK
3	Remove CTD plugs (1 red & 2 white plugs)	Plugs removed (see section 2 page 3)	☑ OK
4	Distilled Water in conductivity cell	Introduce distilled water in conductivity cell (enable CTD pump check on test 8 & 9)	☐ OK
	Check during deployment (Float must be on VERTICAL position)		
5 T0	Magnet removal	Magnet removed from ON/OFF position	☑ OK
6 T0+ [5-15s]	5 slow Ev activations	5 Ev activations heard (5-15 sec after magnet removal)	☑ OK
7	5 pump activations	5 pump activations heard	☑ OK
8	CTD pump	Water level change in CTD water circuit	☑ OK
	One Minute Delay before mission begins	During 50 sec, user can connect to float with Bluetooth to enter in dialog mode. After this delay, floats begins mission (no more dialog possible with float, until new reset)	☑ OK
9 T0+ 100s	Full Auto-Test	Full auto-test (int. vacuum, batteries, sensors test, short pump & Ev activation, GPS acquisition, and Iridium technical messages transmission (type 0 & 4)	☑ OK
10	Buzzer activation	Buzzer activates for 30 minutes	☑ OK
11	Delay before mission	Wait for "Delay before mission" Minutes ("MC6")	☐ OK
12	Satellite Transmission	IRIDIUM transmission (With refreshed GPS position)	☑ OK
	Deployment		
13	Deployment	Deployment system in place	☑ OK
14	Float drift	Float drift at surface	☑ OK

If **step 10** is not reached and Argos message are not received, place magnet on ON/OFF position and try again from beginning.

Do not DEPLOY after 3 unsuccessfull tries !

Figure 4: Float Deployment Quickstart and Check List 2.