



CONSEJO SUPERIOR  
DE INVESTIGACIONES  
CIENTÍFICAS



Balearic Islands  
Coastal Observing  
and Forecasting  
System

## GLIDER PREPARATION CHECKLIST

Reference: 20121023-GPC-538



**Platform:** *GLIDER SEAGLIDER*

**Platform ID:** *sdeep02 (Unit538)*

**Mission:** *JERICO TNA SARDINIA OCT12*

**Dates:** *October, the 23<sup>st</sup>, 2012*    **to**    *October, the 30<sup>st</sup>, 2012*

**Issue:** Glider Preparation Checklist

**Description:** This document contains information on Pre-Mission, On Mission and Post-Mission checklists performed to the glider for the mission *JERICO TNA SARDINIA OCT12*

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### Pre-Mission Checklists

#### Argos Tag

Argos Tag Serial Number	11S1081	
Configuration according to iRobot	Yes	<input checked="" type="checkbox"/>
Total Transmissions	7809	<input checked="" type="checkbox"/>
Maximum transmissions expected	57x250=14250	<input checked="" type="checkbox"/>
Transmissions end of mission < maximum	22059<60000	<input checked="" type="checkbox"/>
Test transmission voltage > low limit	3,17 V > 2,9 V	<input checked="" type="checkbox"/>
Test sensors voltage > low limit	3,63 V > 3,0 V	<input checked="" type="checkbox"/>
Temperature has a reasonable value	24,7°C	<input checked="" type="checkbox"/>
Conductivity in air > low limit	255 > 200	<input checked="" type="checkbox"/>
Tef-Gel on bolts	Yes	<input checked="" type="checkbox"/>
Top bracket 1 inch from antenna's refractory band	Yes	<input checked="" type="checkbox"/>
When antenna fixed to the glider, tag is aligned with CT sail.	Yes	<input checked="" type="checkbox"/>

#### Ballasting and Sealing

Weights and foams according to updated Pinwheel diagram	Yes	<input checked="" type="checkbox"/>
Weights and foams secured	Yes	<input checked="" type="checkbox"/>
O-Ring present in antenna cable connector	Yes	<input checked="" type="checkbox"/>
All connectors tightened	Yes	<input checked="" type="checkbox"/>
Oil bladder visually inspected	Yes	<input checked="" type="checkbox"/>
Tef-Gel on all bolts	Yes	<input checked="" type="checkbox"/>



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### Deck Tests

Access to primary and secondary basestations	Only one BS	<input checked="" type="checkbox"/>
Argos message received	Yes	<input checked="" type="checkbox"/>
Self-Test directory listing does not show tar files or remainder files	Yes	<input checked="" type="checkbox"/>
Self-Test devices' limits and timeouts according to Trim Sheet	Yes	<input checked="" type="checkbox"/>
Self-Test .log file errors	None	<input checked="" type="checkbox"/>
Self-Test .eng file has reasonable values	Yes	<input checked="" type="checkbox"/>
Emails received from the basestation (.pagers)	Yes	<input checked="" type="checkbox"/>
Free space in 2 GB CF Card	99,57%	<input checked="" type="checkbox"/>
5 simulated dives average number of connections <= high limit. Primary and Secondary numbers.	2<=2   N/A	<input checked="" type="checkbox"/>
Movedata.sh to a folder	Yes	<input checked="" type="checkbox"/>

### Mission Launch

Mission started and instrument with correct sensors and parts on socib.es/Instrumentation	Yes	<input checked="" type="checkbox"/>
Cmdfile with necessary parameters to start the mission and \$QUIT	Yes	<input checked="" type="checkbox"/>
Targets file	Yes	<input checked="" type="checkbox"/>
Science file	Yes	<input checked="" type="checkbox"/>
Pdoscmds.bat with first target name	Yes	<input checked="" type="checkbox"/>
Argos tag ON	Yes	<input checked="" type="checkbox"/>
Port Self-Test accepts new \$PRESSURE_YINT value	Yes	<input checked="" type="checkbox"/>
Tef-Gel on all bolts	Yes	<input checked="" type="checkbox"/>
All sensor covers removed	Yes	<input checked="" type="checkbox"/>
Waterline below the rudder	Yes	<input checked="" type="checkbox"/>
Glider replies to acoustic transponder	Yes	<input checked="" type="checkbox"/>
30 meter dive shows good behaviour and no errors	Yes	<input checked="" type="checkbox"/>



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### On Mission Checklists

Communications	1 <sup>st</sup> call attempt > 55%, 5 <sup>th</sup> call attempt < 15%	N/A	
Argos Tag	messages received, positions received, transmission voltage, sensor voltage	N/A	
Batteries	24 V battery consumption, 24 V battery voltage, 10 V battery consumption, 10 V battery voltage	Faulty	
Safety	Leak indicators within range	N/A	
	Accumulated errors	N/A	
Data	Sensors data coherent and at right interval. Used CF card space.	N/A	

### Post-Mission Checklist

Recovery and storage	Glider visual inspection	Yes	<input checked="" type="checkbox"/>
	Glider and sensors rinsed and cleaned	Yes	<input checked="" type="checkbox"/>
	Mission stopped on socib.es/Instrumentation	Yes	<input checked="" type="checkbox"/>
	Glider stored ready or for refurbishment	Refurbishment	<input checked="" type="checkbox"/>
Argos Tag (S/N 11S1081)	Total transmissions	9929	<input checked="" type="checkbox"/>
	Mission transmissions/Transmissions per day	2120/302	<input checked="" type="checkbox"/>
	Test transmission voltage > low limit	3,38 V > 2,9 V	<input checked="" type="checkbox"/>
	Test sensors voltage > low limit	3,64 V > 3,0 V	<input checked="" type="checkbox"/>
	Tag in freezer or refurbishment	Freezer	<input checked="" type="checkbox"/>
Data	Data on portal.socib.es to be processed	sg538/20121023	<input checked="" type="checkbox"/>

Battery voltage of the 24V pack dropped suddenly and the glider had to be set drifting after 5 days of being deployed. Batteries need to be analysed by the manufacturer. A detailed report about this issue (DR8) will be created.