SV3-121: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2017-03-06T22:36:24.780Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	Mbari
Payload(s)	S1, s2, s3 and g2	Project	Station m
Ship/Op Area	Mb, r paragon	Location	Using GPSUblox declination=13.258892, failoverC

Software Information

Id	SV3-121, sn=1531399927, Running Regulus 1.1.1, software version of 2016-08-24T17:05:27Z, production build 7

Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☑
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is TALKING.(77/78 success rate) sleepTime=60000 packetSize=8192	☑
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060771430, consecutiveErrors=0, sessionErrors=	☑
Vehicle telemetry received		☑
Tracker telemetry received	**Battery (bars)** 15 volts **Report Rate** 4 hrs	☑

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	N/a		☐
Hull RDF Frequency	N/A		☐
Tracker WGMS name	Spare tracker		☑
Drybox WGMS name	Tinytoo		☑
Float name	Tiny		☑
Glider name	Tiny		☑
Thrudder Serial Number	2c001c	Last 6 digits of Hardware ID found on AMPS page	☑
Event definitions		Compare against standard list	☑
Vehicle and tracker op area defined		Note area name(s) and enable alarms	☑
Escalation list created/populated			☑

Vehicle Status

Item/Procedure	Readings	Initals
Battery [Wh] > 700 Wh	887.933	☑
Solar Power Indicators: > 0	10.687 0.0 0.479 5.35	☑

Item/Procedure	Readings				
Domain Info	**AMPS Hardware Status**	**Temperature (°C)**	**Pressure (kPa)**	**Hardware Uptime**	**Initials**
Domain_Name=Host, Node=1, HW_SerNum=0x3334511539363837002600 39 On=Y	OK	23.9	114.8	Uptime: 3 days, 00:58:37	☑
Domain_Name=Thrudder-1, Node=3, HW_SerNum=0x333347073837363400 2c001c On=Y	OK	16.1	148.1	Uptime: 3 days, 00:52:50	☑

Domain_Name=PyldInt-0x3332470932363032002b0025, Node=7, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	23.1	120.3	Uptime: 0 days, 02:45:58	☑

Mechanical Checks

	Item/Procedure	Specifications	Initials
Float	Wet-mates connected/lubed	3M Silicone Lubricant Spray: 3M ID No. 62-4678-4930-3	☑
	Connector covers secure		☑
	Drybox secure	Wiggle test	☑
	Contact info secure		☑
	Hull	Free of cracks and dings	☑
	Skeg/Fin	Secure	☑
Sub	Hardware secure		☑
	Umbilical visual inspection	Free of voids/defects	☑
	Roll pins inserted	Flushed with surface	☑
	Wings	Hardware secure with Loctite and Lock Nuts	☑
	Thrudder	Hardware secure	☑

Vehicle Functionality

Item/Procedure	Readings	Specifications	Initials
Thruster Spin	445.0	Spins freely, slow and fast speeds	☑
Rudder Range of Motion		Rudder moves freely and smoothly	☑
Rudder right, left, center	Rudder(2017-03-06T22:36:18.875Z,desiredHeading=320.1,compass=9.6,rack=-13.1,post=-13.6rudderStatus=0x3	Right, Left, Center	☑
Thrudder Compass Correction	Thrudder compass is NOT corrected		☑
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used	☑
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used	☑
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=1	Catch release buoy by hand	☑
Octopus Cable 01	OK	Must Pass	☑
Octopus Cable 02	OK	Must Pass	☑
AIS Status	No AIS reports yet received	If in harbor, must see MMSI	☑
Photo Document			☑

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=NaN°C, Press=NaNmb, Wind Speed=NaNkn, Wind Dir=NaN°. Heading=NaN°
UBLOX GPS	2017-03-06T22:36:33Z@36.802373,-121.7868525, lastRx=0.461s, quality=100, clockDt=0.605s
Airmar GPS	Not Available!
Torpedo GPS	2017-03-06T22:36:29Z@36.8023756,-121.7868536, lastRx=4.392s, quality=65, clockDt=4.608s
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false
Obstacle Avoidance Status	Enabled
RDF beacon tested w/receiver	
Check alarms	"Out of bounds" red. All yellow/green

Comments

Umbilical bushings starting to wear on upper end.
FowaRd wing pinching a little bit on the bent Glider frame.
New Lf direction transducer installed with lr stock fin, floppy
S1 hotspot, s2 ctd plus do, s3 pco2 plus ph and g2 eco puck plus vr2c
Airmar off

Technician Signature: cwahl

Note: Once vehicle is launched the following tasks must be completed

1. Clear alarms
2. Log vehicle modifications in notebook
3. Vehicle on mission
4. Create *LAUNCHED* comment into WGMS
5. Upload photos to gallery website with album name: *YYYY-MM-DD VehicleName*

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