

SV3-121: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2017-01-09T16:00:58.227Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	Mbari
Payload(s)	S1, s2, s3 and g1	Project	BOG BIN BED
Ship/Op Area	Mb	Location	Using GPSUBlox declination=13.274193, failoverC

Software Information

Id	SV3-121, Running Regulus software version of 2015-12-01_16-50-31, production build 35
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2147483647). Channel is WAITING.(no internet connectivity)	☒
WGMS Iridium	<input "="" type="text" value="ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060771430, consecutiveErrors=0, sessionErrors="/>	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 15.9 Report Rate 4hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	N/a		☐
Hull RDF Frequency	N/a		☐
Tracker WGMS name			☐
Drybox WGMS name	Tinytoo		☒
Float name	Tiny		☒
Glider name	Tiny		☒
Thruder 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	Initials
Battery [Wh] > 700 Wh	880.026	☒
Solar Power Indicators: > 0	0.0 0.0 0.602 0.665	☒

Item/Procedure	Readings				Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	
Domain_Name=Host, Node=1, HW_SerNum=0x333451153936383700260039 On=Y	OK	16.9	112.1	Uptime: 0 days, 00:31:53	☒
Domain_Name=Thruder, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	14.3	145.3	Uptime: 0 days, 00:24:33	☒
Domain_Name=PubDist					

DomainName=Fyurnt- 0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	16.1	116.9	Uptime: 0 days, 00:18:22	☒
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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	458.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2017-01-09T16:00:54.059Z,desiedHeading=330.3,compass=22.8,rack=-13.1,post=-13.1)	Right, Left, Center	☒
Thrudder Compass Correction	Thrudder compass is NOT corrected		☒
Fixed heading test (spin)	270	Avoidance Off, Note Heading Used	☒
Waypoint course test (spin)	44	Avoidance Off, Note Waypoint Course Used	☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0	Catch release buoy by hand	☒
Octopus Cable 01	OK	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 338149219 (AEOWS). Pos=36.80150Q, -121.786633. t=36:0:NOT_DEFINED, 2017-01-09T15:58:53.159Z	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	At [36.80241233, -121.78714800] @ 2017-01-09T16:00:56Z, quality=100
Airmar GPS	Not Available!
Torpedo GPS	At [36.80240043, -121.78717200] @ 2017-01-09T16:00:52Z, quality=65
Water speed readings	Out of the water; Unknown speed; Not yet running
Obstacle Avoidance Status	Enabled
RDF beacon tested w/receiver	
Check alarms	<input all="" green"="" red.="" type="text" value="Out of bounds" yellow=""/>

Comments

Solar panel blocked actually working
Sub keel removed and reassembled, less slop now
S1 hotspot, s2 ctd plus do, s3 pco2 plus ph, g1 vr2c plus ecopuck
Lf acoustic modem
Swapped airMar light mast with spare

Technician Signature:

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*