

SV3-121: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2017-10-19T19:00:26.410Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	Mbari
Payload(s)	S1, s2, s3 and g2	Project	Station m
Ship/Op Area	Paragon mb	Location	Using GPSUblox declination=13.19308, failoverC

Software Information

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

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is TALKING.(92/93 success rate) sleepTime=60000 packetSize=8192	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060771430, consecutiveErrors=0, sessionError	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) Report Rate New Batts 15.x? 4hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	N/a		☐
Hull RDF Frequency	N/a		☐
Tracker WGMS name	Tiny tracker		☒
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	775.845	☒
Solar Power Indicators: > 0	13.868 0.0 13.649 6.62	☒

Item/Procedure	Readings				Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	
Domain_Name=Host, Node=1, HW_SerNum=0x3333451153936383700260039 On=Y	OK	26.0	115.1	Uptime: 0 days, 20:19:22	☒
Domain_Name=Thruder-1, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	20.0	147.0	Uptime: 0 days, 20:11:33	☒
Domain_Name=PydInt-	OK	16.0	114.1	Uptime: 0 days, 00:01:21	☒

0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y				
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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	454.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2017-10-19T19:00:25.718Z,desiredHeading=0.2,compass=50.8,rack=-13.1,post=-12.5rudderStatus=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=0	Catch release buoy by hand	☒
Octopus Cable 01	OK	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 367583000 (WESTWARD). Pos=36.804855, -121.785002. t=37:0:UNDERWAY_ENGINE, 2017-10-19T19:00	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=14.9°C, Press=1016.6mb, Wind Speed=3.46kn, Wind Dir=243.5°. Heading=67.7°
UBLOX GPS	2017-10-19T19:00:30Z@36.80228,-121.7868425, lastRx=0.360s, quality=100, clockDt=0.523s
Airmar GPS	2017-10-19T19:00:29.590Z@36.8022867,-121.7868317, lastRx=0.660s, quality=80, clockDt=0.934s
Torpedo GPS	2017-10-19T19:00:29Z@36.8022903,-121.7868777, lastRx=1.297s, quality=65, clockDt=1.524s
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	<input all="" green"="" red.="" type="text" value="Out of bounds" yellow=""/>

Comments

S1 hotspot with Lf transducer
S2 gpctd plus do
S3 pco2 plus ph
G2 ecopuck plus vr2c
Some corrosion on bailing wire

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*