

SV3-121: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2017-06-30T16:56:15.697Z	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	Location	Using GPSUBlox declination=13.22499, failoverCo

Software Information

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

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is ALKING.(82/84 success rate) sleepTime=6000 packetSize=8192	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is ALKING. IMEI:300434060771430, consecutiveErrors=0, sessionErrors=}	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 15.78 Report Rate 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	612.647	☒
Solar Power Indicators: > 0	10.105 0.0 10.129 10.216	☒

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	21.0	113.6	Uptime: 0 days, 16:00:17	☒
Domain_Name=Thruder-1, Node=3, HW_SerNum=0x333470738373634002c001c On=Y	OK	15.2	142.2	Uptime: 0 days, 15:52:54	☒
Domain_Name=PyIdInt-	OK	18.5	117.4	Uptime: 0 days, 13:51:40	☒

0x3332470932363032002b0025, Node=5,
HW_SerNum=0x3332470932363032002b0025 On=Y

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	☒
	Thruder	Hardware secure	☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Initials
Thruster Spin	0.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2017-06-30T16:56:14.566Z,desiredHeading=341,compass=31.2,rack=-20,post=-13.4rudderStatus=0x340	Right, Left, Center	☒
Thruder Compass Correction	Thruder 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 367458170 (F/V GREYBEARD). Ids=36.801057, -121.784252. t=30:0:NOT_DEFINED, 2017-06-30T16:55:50	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=84.5°C, Press=1016.1mb, Wind Speed=2.14kn, Wind Dir=232.0°. Heading=17.5°
UBLOX GPS	2017-06-30T16:56:21Z@36.802332,-121.7871325, lastRx=0.336s, quality=100, clockDt=0.538s
Airmar GPS	2017-06-30T16:56:20.800Z@36.8023717,-121.7871283, lastRx=0.385s, quality=80, clockDt=0.738s
Torpedo GPS	2017-06-30T16:56:17Z@36.8022843,-121.7871276, lastRx=4.206s, quality=65, clockDt=4.539s
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false
Obstacle Avoidance Status	Disabled
RDF beacon tested w/receiver	
Check alarms	"Out of bounds" red. All yellow/green

Comments

New umbilical, original purchased for sparky
Freshly calibrated science sensors
S1 hotspot, s2 ctd plus do, s3 pco2 and pH and g2 ecopuck and vr2c

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*