SV3 Pre-Launch Checklist

Date	2016-06-30T15:39:18.549Z	Glider Name	SV3-199056737(SV3-132)
Tech(s)	cwahl	Organization	Mbari
Payload(s)	Sub/float gpctd, airmar	Project	Lr engineering test
Ship/Op Area	Mb	Location	Using GPSUblox declination=13.329804, failoverC

Software Information

Id	SV3-132, sn=199056737, Running Regulus 1.1.0, software version of 2016-05-27T21:29:38Z, production build 417

Communication

Item/Procedure	Readings		Initials
WiFi Connection	WiFi is On		☑
Virtual Relay	ON. 1 queued msgs (Max=2500). Channel is ATTEMPTING.(18/69 success rate) sleepTime=60000 packetSize=81		☑
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is WAITING. IMEI:300434060796780, consecutiveErrors=5, sessionErrors=		☑
Vehicle telemetry received			☑
Tracker telemetry received	**Battery (bars)** **Report Rate**	13.59 volts 4 hrs	☑

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	N/a		☑
Hull RDF Frequency	N/a		☑
Tracker WGMS name	Sparky tracker		☑
Drybox WGMS name	Sparky		☑
Float name	Sparky		☑
Glider name	Sparky		☑
Thrudder Serial Number	530054	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	768.226	☑
Solar Power Indicators: > 0	3.626 0.0 4.134	☑

	5.099	

Item/Procedure	Readings				
Domain Info	**AMPS Hardware Status**	**Temperature (°C)**	**Pressure (kPa)**	**Hardware Uptime**	**Initials**
Domain_Name=Host, Node=1, HW_SerNum=0x333451063030373500 2f001d On=Y	OK	20.2	122.0	Uptime: 0 days, 17:44:36	☑
Domain_Name=Thrudder-1, Node=3, HW_SerNum=0x333451063030373500530054 On=Y	OK	13.0	144.5	Uptime: 0 days, 17:39:56	☑

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	0.0	Spins freely, slow and fast speeds	☑
Rudder Range of Motion		Rudder moves freely and smoothly	☑
Rudder right, left, center	Rudder(2016-06-30T15:39:14.874Z,desiredHeading=9.4,compass=59.6,rack=-20,post=-14.3rudderStatus=0x3400)	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	Failure	Must Pass	☐
Octopus Cable 02	OK	Must Pass	☑
AIS Status	MMSI 367019310 (QUIN DELTA). Pos=36.805747, -121.785668. t=90:0:MOORED, 2016-06-30T15:38:59.214Z	If in harbor, must see MMSI	☑
Photo Document			☑

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=10.7°C, Press=1014.4mb, Wind Speed=4.70kn, Wind Dir=187.9°. Heading=22.1°
UBLOX GPS	2016-06-30T15:39:20Z@36.8025282,-121.7870935, lastRx=0.185s, quality=100, clockDt=0.455s
Airmar GPS	2016-06-30T15:39:19.390Z@36.802535,-121.78708, lastRx=0.640s, quality=80, clockDt=1.067s
Torpedo GPS	2016-06-30T15:39:12Z@36.8025434,-121.7870683, lastRx=9.164s, quality=65, clockDt=8.459s
Water speed readings	Out of the water; Unknown speed; No NMEA sentences seen yet, powerState=ON, ampsPower=true, Requested by: pilotRequest
Obstacle Avoidance Status	Enabled
RDF beacon tested w/receiver	
Check alarms	"Out of bounds" red. All yellow/green

Comments

O2 failure okay ed by lr
Lr engineering test mission with new airmar software compar

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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