



Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2015-08-24T14:12:37.729Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	Chris wahl	Organization	Mbari
Payload(s)	S1 ctd plus do, s3 pco2 plus pl	Project	Bog timeseries
Ship/Op Area	Mb, C1 to m1 to m2	Location	Using GPSUblox declination=13.419187, failoverC

Software Information

Id	Tiny, Running Regulus software version of 2015-02-08T22:15:44.913Z, production build 65
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2147483647). Channel is TALKING.(28/38 success rate) sleepTime=300000 packetSiz	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0, sessionErrors=	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 15.6 volts 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	Tiny sv3-011		☒
Float name	Tiny		☒
Glider name	Tiny		☒
Thrudder Serial Number	450021	Last 6 digits of Hardware ID found on AMPS page	☒
Event definitions		Compare against standard list	☒
Vehicle and tracker op area defined	Same as always	Note area name(s) and enable alarms	☒
Escalation list created/populated			☒

Vehicle Status

Item/Procedure	Readings	Initials
Battery [Wh] > 700 Wh	183.773	☐
Solar Power Indicators: > 0	2.095 0.0 0.794 2.055	☒

Item/Procedure	Readings				
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	23.7	119.7	Uptime: 3 days, 14:24:19	☒
Domain_Name=Thrudder, Node=3, HW_SerNum=0x333351143733303000450021 On=Y	OK	16.2	189.0	Uptime: 3 days, 14:16:58	☒
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	21.0	124.3	Uptime: 2 days, 13:24:35	☒

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(2015-08-24T14:12:35.134Z,desiredHeading=278.4,compass=282.4,rack=-5.2,post=-1.1)	Right, Left, Center	☒
Thruder Compass Correction	Thruder compass is NOT corrected		☐
Fixed heading test (spin)	270	Avoidance Off, Note Heading Used	☒
Waypoint course test (spin)		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 367664680 (ERIN CARROLL). Pos=36.804782, -121.785833. t=30:0:NOT_DEFINED, 2015-08-24T14:12:28.98	If in harbor, must see MMSI	☒
Photo Document			☐

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=77.3°C, Press=1017.3mb, Wind Speed=2.77kn, Wind Dir=2.0°. Heading=309.2°
UBLOX GPS	At [36.80254917, -121.78706017] @ 2015-08-24T14:12:40Z, quality=100
Airmar GPS	At [36.80257333, -121.78705167] @ 2015-08-24T14:12:40.200Z, quality=80
Torpedo GPS	At [36.80227263, -121.76949352] @ 2015-08-23T02:48:48Z, quality=65
Water speed readings	Out of the water; Unknown speed; No NMEA sentences seen yet
Obstacle Avoidance Status	Enabled
RDF beacon tested w/receiver	
Check alarms	"Out of bounds" red. All yellow/green

Comments

Replace airmar air temp bad
 Umbilical rubber needs repair
 Batteries were run down still charging
 Morning so solar output is low

Technician Signature: Chris wahl

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*

Save & Submit

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