



Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2018-01-16T19:39:10.088Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	s1, s2, s3 and g2	Project	MBTS and LRAUV w/ESP
Ship/Op Area	Paragon MB	Location	Using GPSUblox declination=13.167279, faild

Software Information

Id	Tiny, sn=794595959, Running Regulus 1.1.1, software version of 2016-08-24T17:05:27Z, production
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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.(90/96 success rate) sleepTime=60000 pack	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0,	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 15.63 Report Rate 4 hrs	☒

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		☒
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	866.376	☒
Solar Power Indicators: > 0	2.571 0.0 2.873 9.423	☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	20.5	115.0	Uptime: 0 days, 02:43:58	☒	
Domain_Name=Thruder-1, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	20.4	151.5	Uptime: 0 days, 02:39:39	☒	
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	16.0	113.5	Uptime: 0 days, 00:09:39	☒	

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	302.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2018-01-16T19:39:07.603Z,desiredHeading=341.7,compass=26.4,rack=-13.1,post=-12.5rud	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 367019310 (QUIN DELTA). Pos=36.806217, -121.785707. t=90:0:MOORED, 2018-01-16T19:3	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Init
WX reporting	Temp=14.8°C, Press=1026.6mb, Wind Speed=3.54kn, Wind Dir=131.2°. Heading=35.8°	☒
UBLOX GPS	2018-01-16T19:39:12Z@36.8023368,-121.7871398, lastRx=0.319s, quality=100, clockDt=0.487s	☒
Airmar GPS	2018-01-16T19:39:11.400Z@36.8023417,-121.78714, lastRx=0.722s, quality=80, clockDt=1.087s	☒
Torpedo GPS	2018-01-16T19:39:04Z@36.8023536,-121.7871633, lastRx=7.221s, quality=65, clockDt=8.488s	☒
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	"Out of bounds" red. All yellow/green	☒

Comments

MF modem for LRAUV tracking, confirmed functional with LRAUV Aku's modem
s1 hotspot
s2 ctd plus do
s3 pco2 plus ph
g2 vr2c plus ecopuck

Technician Signature: cwahl

Note: Once vehicle is launched the following tasks must be completed

1. Clear alarms
2. Log vehicle modifications in notebook

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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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