



Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2018-07-27T22:42:59.966Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	s1, s2, s3, g2	Project	Station M
Ship/Op Area	Paragon MB	Location	Using GPSUblox declination=13.11219, failov

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.(101/102 success rate) sleepTime=60000 ps	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0,	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) Need to change batts Report Rate	☐

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		☒
Thruster 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	842.025	☒
Solar Power Indicators: > 0	4.364 0.0 7.049 1.174	☒

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	28.0	118.3	Uptime: 0 days, 05:25:01	☒	
Domain_Name=Thruster-1, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	21.1	146.2	Uptime: 0 days, 05:20:35	☒	
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	25.8	117.5	Uptime: 0 days, 03:40:39	☒	

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	455.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2018-07-27T22:42:57.266Z,desiredHeading=317.9,compass=2.1,rack=-13.1,post=-13.3rudd	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=1	Catch release buoy by hand	☒
Octopus Cable 01	OK	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 367375360 (OCEAN ANGEL 3). Pos=36.804353, -121.785153. t=30:0:UNDERWAY_SAILING	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Init
WX reporting	Temp=17.9°C, Press=1039.9mb, Wind Speed=4.88kn, Wind Dir=225.5°. Heading=26.0°	☒
UBLOX GPS	2018-07-27T22:43:02Z@36.8024935,-121.7870932, lastRx=0.177s, quality=100, clockDt=0.347s	☒
Airmar GPS	2018-07-27T22:43:01.600Z@36.8025033,-121.7870833, lastRx=0.398s, quality=80, clockDt=0.756s	☒
Torpedo GPS	2018-07-27T22:42:53Z@36.8024879,-121.7870809, lastRx=9.177s, quality=65, clockDt=9.358s	☒
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

s1 hotspot with 1f directional ducer
s2 ctd plus do
s3 pCO2 plus ph
g2 ecopuck plus and vr2c
Had issues with ecopuck on shore and hints during last deployment, cable failure again, not convinced... cable and ecopuck replaced!

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*

Save & Submit

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