

Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2018-12-17T17:49:13.865Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	s1, s2, s3 and g1	Project	BOG timeseries
Ship/Op Area	Paragon MB	Location	Using GPSUblox declination=13.070902, 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.(91/91 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) 15.6 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	SV3-011 Tiny		☒
Float name	Tiny		☒
Glider name	Tiny v200		☒
Thruder 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	Initials
Battery [Wh] > 700 Wh	875.794	☒
Solar Power Indicators: > 0	7.533 0.0 5.629 7.705	☒

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	20.7	114.4	Uptime: 0 days, 01:30:16	☒	
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x333451063030373500530054 On=Y	OK	16.5	157.8	Uptime: 0 days, 01:24:40	☒	
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	16.5	110.7	Uptime: 0 days, 00:01:24	☒	

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(2018-12-17T17:49:10.414Z,desiredHeading=170,compass=120,rack=20,post=21.2rudderS	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 367375360 (OCEAN ANGEL 3). Pos=36.804362, -121.785143. 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=15.0°C, Press=1024.5mb, Wind Speed=3.72kn, Wind Dir=128.1°. Heading=121.4°	☒
UBLOX GPS	2018-12-17T17:49:15Z@36.8023093,-121.7871393, lastRx=0.894s, quality=100, clockDt=1.055s	☒
Airmar GPS	2018-12-17T17:49:15.200Z@36.802295,-121.787155, lastRx=0.544s, quality=80, clockDt=0.856s	☒
Torpedo GPS	2018-12-17T17:49:08Z@36.8022968,-121.7871469, lastRx=7.825s, quality=65, clockDt=8.056s	☒
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

Thruster not working...
 Last deployment of the year!!!
 S1 Hotspot with LF, S2 GPCTD plus D0
 S3 pCO2 plus pH, G1 Ecopuck plus VR2C

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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