

Tiny: SV3 Pre-Launch Checklist

[Readme](#)

SV3 Pre-Launch Checklist

Date	2019-07-18T16:55:36.425Z	Glider Name	SV3-794595959 (Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	BOG timeseries	Ship/Op Area	Paragon MB

Software Information

Regulus Version	Tiny, sn=794595959, Running Regulus 1.1.3, software version of 2017-09-28T01:02:25Z, production build 32
Plugins	Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is TALKING. (84/88 success rate) sleepTime=60000 packetSize=8192		☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0, sessionErrors=254, writeErrors=0, readErrors=0, 10min ss avg=4.418129		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Set Parameter Command. Have 0 blocked messages., averageMessageQueueRate=1m25.402s		☒
Location	Using GPSUblox declination=13.010154, failoverCounter=1, timeLastSwitchedGps=2019-07-16T00:50:34Z, clockDt=0.445s		☒
Tracker telemetry received	Battery (bars) 16.04 V Report Rate 4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-011 Tiny			☒
Float name	Tiny			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1				☐
G2	Eco Puck plus VR2C			☒
G3				☐
T1				☐
D1				☐
S1				☐
S2	ctd plus D0			☒
S3	Pco2 plus Ph			☒
S4				☐
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	Comments	Initials
Battery [Wh] > 700 Wh	668.275 //	Charging well	☒
Solar Power Indicators: > 0	1.588 // 0.0 // 24.852 // 23.142 //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK //	24.2 //	115.6 //	Uptime: 2 days, 16:09:54 //		
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	21.5 //	160.0 //	Uptime: 2 days, 16:05:02 //		
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK //	20.8 //	120.0 //	Uptime: 2 days, 00:28:03 //		

Mechanical Checks

	Item/Procedure	Specifications	Comments	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		☒
	Umbilical ribbon cable inspection			☒
	Roll pins inserted	Flush with surface		☒
	Wings	Hardware secure with Loctite and Lock Nuts		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments
Thruster Spin	453.0 //	Spins freely, slow and fast speeds	
Rudder Range of Motion		Rudder moves freely and smoothly	
Rudder right, left, center	Rudder(2019-07-18T16:55:36Z,desiredHeading=228.6,compass=12.8,rack=-12.9,post=-7.7rudderSt	Right, Left, Center	
Thrudder Compass Correction	Thrudder compass is NOT corrected	recommended 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, waitTime=30s	Catch release buoy by hand	
	OK //		

Octopus Cable 01		Must Pass	
Octopus Cable 02	OK	Must Pass	
AIS Status	No AIS reports yet received	If in harbor, must see MMSI	no AIS received since regulus upgrad
Photo Document			

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.7°C, Press=1015.7mb, Wind Speed=3.58kn, Wind Dir=241.2°. Heading=27.1°		☒
UBLOX GPS	2019-07-18T16:55:37Z@36.8023137, -121.7868548, lastRx=0.762s, quality=100, clockDt=0.942s, failCount=0, ggaQCount:2=300, numSat:sma=9.97, std=0.16, min=9.00, max=10.00, hdop:sma=0.95, std=0.11, min=0.88, max=1.40, altitude:sma=5.62, std=3.32, min=-0.90, max=10.10		☒
Airmar GPS	2019-07-18T16:55:36.900Z@36.8023117, -121.786835, lastRx=0.716s, quality=80, clockDt=1.054s, failCount=0, ggaQCount:2=300, numSat:sma=8.96, std=0.19, min=8.00, max=9.00, hdop:sma=1.00, std=0.02, min=1.00, max=1.10, altitude:sma=5.31, std=0.40, min=4.40, max=5.90		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false, powerThreadActive=false		☒
Obstacle Avoidance Status	Enabled		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

some damage on umbilical from the last deployment, mechanical/electrical cable look fine!
s2 ctd plus D0, s3 pCO2 plus pH, G2 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

Submit

Print

Clear User Input