

Readme

SV3 Pre-Launch Checklist

Date	2022-01-07T00:04:56.461Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon

Software Information

Regulus Version	Tiny, sn=794595959, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, LogAlarmReporter, PortForwarder, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=TALKING, sent=1667, lastTx=57.698s, avgTxSize=199.9B, totalTx=434.774kB, received=5, lastRx=57.656s, avgRxSize=5.0B, totalRx=8.436kB, powerState=ON (1d4m18.861s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false, (64/65 success rate), sleepTime=120000, packetSize=8192, numberOfDoTransactionFailures=16,		☒
WGMS Iridium	IMEI:300434060708190, starts=1, r=2, w=10, sessionAttempts=404, sessionErrs=0, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.0 (i=5), 0 queued msgs state=TALKING, sent=10, lastTx=1d30.972s, totalTx=1.053kB, received=2, lastRx=1h25m37.008s, totalRx=0.091kB, powerState=ON (1d3m51.934s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=54.003s, sent=1677, totalBytesSent=435.827kB, received=7, totalBytesReceived=8.526kB, lastRx=1h25m37.044s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],secureComms[header=A9,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=7, #handled=7, lastRx=rx=2022-01-06T22:39:19.539Z, receiver=iridiumModem,		☒
Location	Using GPSublox, declination=12.814892, failoverCounter=1, timeLastSwitchedGps=2022-01-06T00:03:03.010Z, clockDt=-0.623s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.8 volts 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 v150			☒
Umbilical Length	4m			☒
G1				☐
G2	Ecopuck plus VR2C			☒
G3	JRF APU		dead batteries?	☒
T1				☐
D1				☐
S1	Hotspot 2? with MF DAT			☒
S2	GPCTD plus D0			☒
S3	pCO2 plus pH			☒
S4	Airmar			☒
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	1345.449		☒
Solar Power Indicators: > 0	3.405 0.0 3.567 0.342		☒

Item/Procedure	Readings					Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime			
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	21.0	116.8	Uptime: 1 day, 00:09:39			☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	16.1	141.2	Uptime: 0 days, 23:58:40			☒
Domain_Name=Bat-0x33345106303037350027002c, Node=4, HW_SerNum=0x33345106303037350027002c On=Y	OK	16.6	113.3	Uptime: 0 days, 21:55:24			☒
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=6, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	15.0	111.6	Uptime: 0 days, 00:00:-1			☒

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	Inspect, note condition		☒
	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, lock nuts, and seizing wire		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	451.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-01-07T00:04:55.977Z,desiredHeading=238.7,compass=101.6,rack=13,post=12.8rudderStatus)	Right, Left, Center		☒
Thrudder Compass Correction	Thrudder compass is corrected	recommended NOT corrected	LR says that this is okay	☒
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, waitTime=1m30s, powerState=OFF (1d1m48.670s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand		☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 367766000 (WESTERN FLYER). Pos=36.802402, -121.787057. t=33:0:UNDERWAY_ENGINE, 2022-01-07T00:05:01.897Z, lengthErrs=3, latlonErrs=0, broadcastCount=12859, lastRx=6.904s, numberObserved=7, averageRxRateMillis=11.308s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=11.1°C, Press=1014.4mb, Wind Speed=1.36kn, Wind Dir=311.2°. Heading=218.8°		☒
UBLOX GPS	2022-01-07T00:05:08Z@36.8022887,-121.7870677,lastRx=0.383s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.852s, lastValidFix=2022-01-07T00:05:08Z@36.8022887,-121.7870677, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.77,std=0.42,min=10.00,max=11.00,n=300,hdop:sma=1.00,std=0.03,min=0.94,max=1.15,n=300,altitude:sma=1.22,std=2.08,min=-2.70,max=5.90		☒
Airmar GPS	2022-01-07T00:05:08.110Z@36.8022983,-121.7870633,lastRx=0.172s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.800s, lastValidFix=2022-01-07T00:05:08.110Z@36.8022983,-121.7870633, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=8.00,std=0.00,min=8.00,max=8.00,n=300,hdop:sma=1.11,std=0.03,min=1.10,max=1.20,n=300,altitude:sma=2.71,std=0.53,min=1.70,max=3.50,n=300		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
Obstacle Avoidance Status	Enabled		☒
Check alarms	*Out of bounds* red. All yellow/green		☒

Tiny: SV3 Pre-Launch Checklist
General Comments

Happy New Year!!! First deployment of 2022!

Technician Signature:

- 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