

SV3 Pre-Launch Checklist

Date	2024-01-23T21:56:41.690Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-110, sn=466563798, 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, GPSasRudderCompass, LogAlarmReporter, PortForwarder, RudderParametersManager, ThruderDiagnosticsFixer, ThrusterAdjuster

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (20h20m27.716s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=8, w=4902, sessionAttempts=5170, sessionErrs=263, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.6 (i=5), 1 queued msgs state=TALKING, sent=4902, lastTx=10.465s, avgTxSize=178.2B, totalTx=828.654kB, received=8, lastRx=6m41.601s, avgRxSize=41.6B, totalRx=0.315kB, powerState=ON (20h20m2.427s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]79 blocked messages, totalMessagesDiscarded=384, averageMessageQueueRate=10.998s, sent=4902, totalBytesSent=828.654kB, received=8, totalBytesReceived=0.315kB, lastRx=6m41.617s, 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=8, #handled=8, lastRx=rx=2024-01-		☒
Location	Using GPSUblox, declination=12.620333, failoverCounter=1, timeLastSwitchedGps=2024-01-23T01:38:33Z, clockDt=3.245s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.8 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-110 Hansen replacement			☒
Float name	Tiny 2 copper			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot with MF DAT			☒
S2	GPCTD plus DO			☒
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
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Battery [Wh] > 700 Wh	898.431	//		☒
Solar Power Indicators: > 0	6.705 0.0 14.108 16.125	// // // //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK	32.3	119.4	Uptime: 0 days, 20:25:57		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	32.2	304.0	Uptime: 0 days, 20:18:16		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	24.8	114.7	Uptime: 0 days, 00:44:07		☒

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	440.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-01-23T21:56:41.351Z,desiredHeading=152.3,compass=127.4,rack=11.5,post=13.6rudderSta	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 (20h18m1.133s), 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 338216726 (SHAMAN). Pos=36.814183, -121.787893. t=36:0:NOT_DEFINED, 2024-01-23T21:56:41.087Z, lengthErrs=0, latlonErrs=0, broadcastCount=9294, lastRx=5.358s, numberObserved=15, averageRxRateMillis=0.416s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.7°C, Press=1015.5mb, Wind Speed=4.51kn, Wind Dir=293.8°. Heading=115.3°		☒
UBLOX GPS	2024-01-23T21:56:50Z@36.8022935,-121.7870567,lastRx=0.210s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.525s, lastValidFix=2024-01-23T21:56:50Z@36.8022935,-121.7870567, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.71,std=0.45,min=11.00,max=12.00,n=300,hdop:sma=0.82,std=0.03,min=0.79,max=0.86,n=300,altitude:sma=3.86,std=0.99,min=2.00,max=5.70,		☒
Airmar GPS	2024-01-23T21:56:50.090Z@36.8022683,-121.787065,lastRx=0.106s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.586s, lastValidFix=2024-01-23T21:56:50.090Z@36.8022683,-121.787065, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.38,std=0.48,min=10.00,max=11.00,n=300,hdop:sma=1.00,std=0.00,min=1.00,max=1.00,n=300,altitude:sma=2.53,std=0.33,min=1.70,max=3.10,		☒
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		☒

General Comments

First mission of 2024 for Tiny! Xeos tracker batteries repalced. pH electrode repalced and ph batts replaced.

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