

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-09-08T16:13:11.773Z	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, ThrudderDiagnosticsFixer, 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 (16h44.156s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=13, w=781, sessionAttempts=865, sessionErrs=72, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.5 (i=5), 1 queued msgs state=TALKING, sent=781, lastTx=1.261s, avgTxSize=120.00, totalTx=83.458kB, received=13, lastRx=14m25.564s, avgRxSize=49.5B, totalRx=0.499kB, powerState=ON (16h19.806s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]373 blocked messages, totalMessagesDiscarded=357, averageMessageQueueRate=35.351s, sent=781, totalBytesSent=83.458kB, received=13, totalBytesReceived=0.499kB, lastRx=14m25.564s, 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=13, #handled=13, lastRx=rx=2023-09-		☒
Location	Using GPSublox, declination=12.656156, failoverCounter=1, timeLastSwitchedGps=2023-09-08T00:14:33Z, clockDt=4.160s		☒
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	CCU SV3-110			☒
Float name	Tiny too			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 3 with MF DAT			☒
S2	GPCTD plus D0			☒
S3	pCO2			☒
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	837.634		☒

Solar Power Indicators: > 0	14.761 0.0 18.855 20.85	// // // //		☐	☒
-----------------------------	----------------------------------	----------------------	--	--------------------------	-------------------------------------

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	22.2	115.9	Uptime: 0 days, 16:06:07		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3333470736373634002c001c On=Y	OK	20.1	135.8	Uptime: 0 days, 15:58:13		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	18.8	112.9	Uptime: 0 days, 02:03:17		☒

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	450.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-09-08T16:13:10.435Z,desiredHeading=358.9,compass=24,rack=-11.4,post=-15.9rudderStat	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 (15h58m15.393s), 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 338353207 (AMITY). Pos=36.803682, -121.785015. t=36:0:NOT_DEFINED, 2023-09-08T16:13:15.336Z, lengthErrs=0, latlonErrs=0, broadcastCount=3956, lastRx=0.633s, numberObserved=9, averageRxRateMillis=6.084s	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=1016.8mb, Wind Speed=2.93kn, Wind Dir=212.7°. Heading=27.0°		☒
UBLOX GPS	2023-09-08T16:13:20Z@36.8023508,-121.7871567,lastRx=0.585s, quality=100, timeout=1m, nmeaValid=true, clockDt=4.013s, lastValidFix=2023-09-08T16:13:20Z@36.8023508,-121.7871567, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.83,std=0.37,min=10.00,max=11.00,n=300,hdop:sma=1.00,std=0.01,min=0.99,max=1.02,n=300,altitude:sma=2.75,std=1.12,min=0.80,max=5.20,		☒
Airmar GPS	2023-09-08T16:13:19.900Z@36.8023717,-121.78716,lastRx=0.648s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.907s, lastValidFix=2023-09-08T16:13:19.900Z@36.8023717,-121.78716, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.96,std=0.20,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=7.52,std=0.31,min=6.80,max=8.10,		☒
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

Finally!

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