

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2022-12-09T17:22:38.847Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	WetWiFi	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, LogAlarmReporter, PortForwarder, RudderParametersManager, ThrudderDiagnosticsFixer, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (15m52.439s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=2, w=34, sessionAttempts=37, sessionErrs=2, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.6 (i=5), 0 queued msgs state=TALKING, sent=34, lastTx=28.888s, avgTxSize=105.7B, totalTx=3.460kB, received=2, lastRx=8m37.039s, avgRxSize=46.5B, totalRx=0.091kB, powerState=ON (15m23.406s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=25.584s, sent=34, totalBytesSent=3.460kB, received=2, totalBytesReceived=0.091kB, lastRx=8m37.095s, 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=2, #handled=2, lastRx=rx=2022-12-		☒
Location	Using GPSUblox, declination=12.727112, failoverCounter=1, timeLastSwitchedGps=2022-12-09T17:09:03Z, clockDt=-0.060s		☒
Tracker telemetry received	Battery (Volts) Report Rate	16.08 votls 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	WG Tiny			☒
Glider name	WG Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot with MF DAT			☒
S2	GPCTD plus D0			☒
S3	WetWiFi Ocean comms modem			☒
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	803.88		☒

Solar Power Indicators: > 0	3.717	//		☒
	0.0	//		
	3.614	//		
	3.99	//		

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK //	16.1 //	112.9 //	Uptime: 0 days, 00:17:19 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	13.9 //	132.9 //	Uptime: 0 days, 00:10:09 //		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK //	15.0 //	111.9 //	Uptime: 0 days, 00:04:33 //		☒

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		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	0.0 //	Spins freely, slow and fast speeds	Wifi page down, did not test	☐
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-12-09T17:22:35.808Z,desiredHeading=314.6,compass=40.3,rack=-14.4,post=-10rudderStat	Right, Left, Center	Wifi page down, did not do, rudder appears to be working from WQMS commands	☐
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says 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 (13m29.046s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Wifi page down did not test	☐
Octopus Cable 01	OK //	Must Pass		☒
Octopus Cable 02	OK //	Must Pass		☒
AIS Status	lastSeen=MMSI 368141640 (F/V VALERIE). Pos=36.801073, -121.784360. t=30:0:NOT_DEFINED, 2022-12-09T17:22:42.992Z, lengthErrs=0, latLonErrs=0, broadcastCount=30, lastRx=6.891s, numberObserved=4, averageRxRateMillis=37.355s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=NaN°C, Press=NaNmb, Wind Speed=NaNkn, Wind Dir=NaN°. Heading=NaN° //	Airmar off	☒
UBLOX GPS	timeout=1m, nmeaValid=true, clockDt=0.090s, lastValidFix=2022-12-09T17:22:50Z@36.802364, -121.7872023, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat:sma=9.98,std=0.13,min=9.00,max=10.00,n=300,hdop:sma=1.05, std=0.06,min=0.99,max=1.75,n=300,altitude:sma=-0.98,std=2.57,min=-7.50,max=6.30,n=300		☒
Airmar GPS	Not Available! //		☒
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

Vehicle wifi struggling...
Hotspot MF DAT modem and Ocean comms modem both on CCU HV port.

Technician Signature: cwah1

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