

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-06-01T23:16:40.293Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS/SES/PIE	Ship/Op Area	MB Paragon

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 (1h4m18.339s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Cell still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=12, w=118, sessionAttempts=135, sessionErrs=10, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.1 (i=5), 1 queued msgs state=TALKING, sent=118, lastTx=1.064s, avgTxSize=100.5B, totalTx=11.652kB, received=12, lastRx=2m12.358s, avgRxSize=37.2B, totalRx=0.436kB, powerState=ON (1h3m50.370s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]668 blocked messages, averageMessageQueueRate=19.848s, sent=118, totalBytesSent=11.652kB, received=12, totalBytesReceived=0.436kB, lastRx=2m12.374s, 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=12, #handled=12, lastRx=rx=2023-06-01T23:14:27.982Z, receiver=iridiumModem,		☒
Location	Using GPSUblox, declination=12.681753, failoverCounter=1, timeLastSwitchedGps=2023-06-01T22:15:03Z, clockDt=0.594s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 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 v2 copper from JRF			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 3 with MF DAT and LF directional			☒
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
Battery [Wh] > 700 Wh	927.071		☒

Solar Power Indicators: > 0	5.889 0.0 6.153 2.868	// // // //		☒
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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 //	22.5 //	115.9 //	Uptime: 0 days, 01:09:37 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	18.9 //	140.4 //	Uptime: 0 days, 00:57:46 //		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK //	21.5 //	114.7 //	Uptime: 0 days, 00:39:47 //		☒

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	452.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-06-01T23:16:37.639Z,desiredHeading=220.4,compass=195.6,rack=11.5,post=14.7rudderSta	Right, Left, Center		☒
Thruder Compass Correction	Thruder 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)	36.797 -121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (1h1m30.378s), 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 367416790 (NATALIE ROSE). Pos=36.801845, -121.787188. t=30:0:NOT_DEFINED, 2023-06-01T23:15:18.785Z, lengthErrs=0, latLonErrs=0, broadcastCount=195, lastRx=1m31.519s, numberObserved=6, //	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=13.5°C, Press=1013.0mb, Wind Speed=3.96kn, Wind Dir=232.9°. Heading=207.9° //		☒
UBLOX GPS	2023-06-01T23:16:51Z@36.802516,-121.7870773,lastRx=0.155s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.636s, lastValidFix=2023-06-01T23:16:51Z@36.802516,-121.7870773, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop:sma=0.87,std=0.00,min=0.86,max=0.87,n=300,altitude:sma=1.47,std=0.72,min=-0.10,max=3.00 //		☒
Airmar GPS	2023-06-01T23:16:50.500Z@36.8025267,-121.7870967,lastRx=0.645s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.086s, lastValidFix=2023-06-01T23:16:50.500Z@36.8025267,-121.7870967, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.99,std=0.08,min=9.00,max=10.00,n=300,hdop:sma=0.90,std=0.01,min=0.90,max=1.10,n=300,altitude:sma=1.50,std=0.49,min=-0.20,max=2.10,n=300, //		☒
Torpedo GPS	Not Available! //		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00 //		☒
Obstacle Avoidance Status	Disabled //		☒
Check alarms	*Out of bounds* red. All yellow/green //		☒

General Comments

LF transducer installed for SES check in at MARS.

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