

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-03-01T21:04:53.926Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	PIE/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, 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 (1h41m28.457s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=11, w=116, sessionAttempts=144, sessionErrs=24, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.9 (i=5), 1 queued msgs state=TALKING, sent=116, lastTx=3.819s, avgTxSize=94.9B, totalTx=11.401kB, received=11, lastRx=10m1.749s, avgRxSize=34.3B, totalRx=0.419kB, powerState=ON (1h41m4.573s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]627 blocked messages, averageMessageQueueRate=11.597s, sent=116, totalBytesSent=11.401kB, received=11, totalBytesReceived=0.419kB, lastRx=10m1.762s, 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=11, #handled=11, lastRx=rx=2023-03-01T20:54:52.221Z, receiver=iridiumModem,		☒
Location	Using GPSublox, declination=12.705746, failoverCounter=1, timeLastSwitchedGps=2023-03-01T19:25:33Z, cLockDt=3.998s		☒
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			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 3 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
----------------	----------	----------	----------

Battery [Wh] > 700 Wh	888.985		☒
Solar Power Indicators: > 0	3.48 0.0 3.402 6.961		☒

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	21.4	115.0	Uptime: 0 days, 01:45:50		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	15.9	138.8	Uptime: 0 days, 01:38:09		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	18.0	112.9	Uptime: 0 days, 01:12:29		☒

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	446.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-03-01T21:04:50.830Z,desiredHeading=265.5,compass=21.7,rack=-14.9,post=-11.2rudderSt	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	not really working on the dock...	☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (1h38m59.722s), 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 366934770 (NOAHS ARK). Pos=36.804318, -121.785233. t=30:0:FISHING, 2023-03-01T21:04:42.308Z, lengthErrs=0, latlonErrs=0, broadcastCount=765, lastRx=15.246s, numberObserved=6, averageRxRateMillis=10.392s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=11.0°C, Press=1012.5mb, Wind Speed=3.26kn, Wind Dir=124.9°. Heading=27.1°		☒
UBLOX GPS	2023-03-01T21:05:02Z@36.8024245,-121.7871443,lastRx=0.059s, quality=100, timeout=1m, nmeaValid=true, clockDt=4.386s, lastValidFix=2023-03-01T21:05:02Z@36.8024245,-121.7871443, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat=sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop=sma=0.83,std=0.00,min=0.82,max=0.83,n=300,altitude=sma=0.25,std=0.56,min=-0.80,max=1.10		☒
Airmar GPS	2023-03-01T21:05:01.200Z@36.8024267,-121.787155,lastRx=0.946s, quality=80, timeout=5m, nmeaValid=true, clockDt=3.545s, lastValidFix=2023-03-01T21:05:01.200Z@36.8024267,-121.787155, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat=sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop=sma=0.85,std=0.05,min=0.80,max=0.90,n=300,altitude=sma=5.36,std=1.89,min=2.50,max=10.40		☒
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

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