

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-02-14T22:57:56.275Z	Glider Name	SV3-466563798 (SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS and maybe ECOHAB/CANON testing?	Ship/Op Area	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 (19m45.069s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=1, w=45, sessionAttempts=53, sessionErrs=6, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.2 (i=5), 1 queued msgs state=TALKING, sent=45, lastTx=46.746s, avgTxSize=104.3B, totalTx=4.538kB, received=1, lastRx=1m24.822s, totalRx=0.038kB, powerState=ON (19m17.692s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	totalBytesSent=4.538kB, received=1, totalBytesReceived=0.038kB, lastRx=1m24.864s, 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=1, #handled=1, lastRx=rx=2023-02-14T22:56:31.485Z, receiver=iridiumModem, headerByte=0x0A, length=39],UnsupportedMessageHandler[active=true, #handled=0], minimumMTU=338		☒
Location	Using GPSUblox, declination=12.70974, failoverCounter=1, timeLastSwitchedGps=2023-02-14T22:41:04Z, clockDt=2.521s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.63 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		replaced with used umbilical, already has ~300days on it	☒
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	642.327	Will put it on the charger overnight	☒
Solar Power Indicators: > 0	11.96 0.0 12.247 15.751		☒

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	20.1	114.3	Uptime: 0 days, 00:21:41		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c01c On=Y	OK	12.4	127.7	Uptime: 0 days, 00:13:34		☒
Domain_Name=PyldInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	14.4	111.5	Uptime: 0 days, 00:00:-1		☒

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	451.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-02-14T22:57:54.176Z,desiredHeading=64.7,compass=23.1,rack=0,post=-1.7rudderStatus=0	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	Not working contact LR...	☐
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used	kinda worked bring up to LR	☐
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (16m52.405s), 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=36.804320, -121.785167. t=30:0:FISHING, 2023-02-14T22:57:52.276Z, lengthErrs=0, latlonErrs=0, broadcastCount=123, lastRx=0.0.412s, numberObserved=5, averageRxRateMillis=14.999s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=9.1°C, Press=1015.0mb, Wind Speed=5.93kn, Wind Dir=224.0°. Heading=31.4°		☒
UBLOX GPS	2023-02-14T22:58:05Z@36.80241,-121.7871348,lastRx=0.582s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.285s, lastValidFix=2023-02-14T22:58:05Z@36.80241,-121.7871348, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.78,std=0.42,min=9.00,max=10.00,n=300,hdop:sma=0.92,std=0.07,min=0.88,max=1.04,n=300,altitude:sma=1.31,std=0.44,min=0.20,max=2.30,n=300		☒
Airmar GPS	2023-02-14T22:58:04.800Z@36.8024267,-121.7871433,lastRx=0.711s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.023s, lastValidFix=2023-02-14T22:58:04.800Z@36.8024267,-121.7871433, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.99,std=0.10,min=9.00,max=10.00,n=300,hdop:sma=0.90,std=0.01,min=0.90,max=1.00,n=300,altitude:sma=5.09,std=2.01,min=1.90,max=7.70,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

rudder is functional with right, venter, left commands but will not adjust to follow a desired heading... Will de need to fix this before deployment.

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