

Readme

SV3 Pre-Launch Checklist

Date	2022-09-08T15:45:57.263Z	Glider Name	SV3-1531399927(SV3-121)
Tech(s)	cwahl	Organization	MBARI
Project	Blue Whale Observatory - Bioacoustics	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-121, sn=1531399927, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-31-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, GPSasRudderCompass, LogAlarmReporter, PortForwarder, RudderParametersManager, ThrusterAdjuster, Winch

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	Wifi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (15h7m42.829s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Cell still not working	☐
WGMS Iridium	IMEI:300434060771430, starts=1, r=4, w=742, sessionAttempts=897, sessionErrs=152, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.0 (i=3), 0 queued msgs state=TALKING, sent=742, lastTx=10.979s, avgTxSize=81.2B, totalTx=68.294kB, received=4, lastRx=14h12m32.753s, totalRx=0.125kB, powerState=ON (15h7m14.495s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, totalMessagesDiscarded=411, averageMessageQueueRate=1m18.708s, sent=742, totalBytesSent=68.294kB, received=4, totalBytesReceived=0.125kB, lastRx=14h12m32.759s, 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=4, #handled=4, lastRx=rx=2022-09-		☒
Location	Using GPSublox, declination=12.751205, failoverCounter=1, timeLastSwitchedGps=2022-09-08T00:40:32.970Z, clockDt=0.690s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.7 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-121 MBARI Spare			☒
Float name	WG Hansen			☒
Glider name	WG Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	APU			☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
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	1690.689	//		☒
Solar Power Indicators: > 0	2.647 0.0 2.741 2.158	// // // //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x474850072038384d00390021 On=Y	OK	22.9	120.0	Uptime: 0 days, 15:09:49		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=3, HW_SerNum=0x474850072038384d00380042 On=Y	OK	19.4	111.0	Uptime: 0 days, 15:02:19		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	17.5	257.5	Uptime: 0 days, 15:02:17		☒

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		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	463.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2022-09-08T15:45:52.864Z,desiredHeading=350.4,compass=15.3,rack=-11.4,post=-11.9rudderSt	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)	41	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (15h5m12.560s), 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 367766000 (WESTERN FLYER). Pos=36.802407, -121.787048. t=33:0:UNDERWAY_ENGINE, 2022-09-08T15:45:57.353Z, lengthErrs=0, latlonErrs=0, broadcastCount=7265, lastRx=4.928s, numberObserved=6, averageRxRateMillis=10.525s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=17.5°C, Press=1026.5mb, Wind Speed=0.70kn, Wind Dir=178.0°. Heading=355.0°		☒
UBLOX GPS	2022-09-08T15:46:03Z@36.8024272,-121.7871453,lastRx=0.282s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.702s, lastValidFix=2022-09-08T15:46:03Z@36.8024272,-121.7871453, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.45,std=0.50,min=10.00,max=11.00,n=300,hdop:sma=0.98,std=0.13,min=0.77,max=1.08,n=300,altitude:sma=1.75,std=1.49,min=-0.40,max=6.30		☒
Airmar GPS	2022-09-08T15:46:02.600Z@36.8023967,-121.7871283,lastRx=0.668s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.288s, lastValidFix=2022-09-08T15:46:02.600Z@36.8023967,-121.7871283, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.22,std=0.41,min=9.00,max=10.00,n=300,hdop:sma=0.82,std=0.06,min=0.80,max=1.10,n=300,altitude:sma=8.09,std=4.43,min=-2.10,max=19.10,		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00	Turned off	☒
Obstacle Avoidance Status	Enabled		☒
Check alarms	*Out of bounds* red. All yellow/green		☒

General Comments

Replaced upper umbilical (the large ones) dog ear bushings last evening due to excessive wear. Inspect/replace the other bushings when the vehicle is back onshore.

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