

SV3 Pre-Launch Checklist

Date	2023-11-07T19:12:18.355Z	Glider Name	SV3-1338599832 (SV3-006)
Tech(s)	cwahl	Organization	MBARI
Project	BWO Bioacoustics	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-006, sn=1338599832, 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, RudderParametersManager, 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=ON (1d1h54m13.179s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060022730, starts=1, r=7, w=1234, sessionAttempts=1328, sessionErrs=87, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.2 (i=5), 1 queued msgs state=TALKING, sent=1234, lastTx=2.492s, avgTxSize=122.0B, totalTx=137.547kB, received=7, lastRx=1h22m35.815s, totalRx=0.299kB, powerState=ON (1d1h53m45.642s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]2 blocked messages, totalMessagesDiscarded=241, averageMessageQueueRate=1m4.779s, sent=1234, totalBytesSent=137.547kB, received=7, totalBytesReceived=0.299kB, lastRx=1h22m35.800s, 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=7, #handled=7, lastRx=rx=2023-11-		☒
Location	Using GPSUblox, declination=12.64052, failoverCounter=1, timeLastSwitchedGps=2023-11-06T17:20:27Z, clockDt=2.624s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.6 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-006 Pasithee			☒
Float name	Wave Glider Hansen			☒
Glider name	Wave Glider Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	JRF 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	1556.526	//		☒
Solar Power Indicators: > 0	14.879 0.0 15.311 15.399	// // // //		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3332471430393232001a0024 On=Y	OK	22.9	114.9	Uptime: 1 day, 01:57:09		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	20.6	112.0	Uptime: 6 days, 22:28:45		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	22.6	295.2	Uptime: 1 day, 01:50:22		☒

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	446.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-11-07T19:12:14.450Z,desiredHeading=347.9,compass=13.4,rack=-11.4,post=-12.3rudderSt	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)	20	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (1d1h51m41.758s), 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 338407295 (ONELOVE). Pos=36.802988, -121.785715. t=36:0:MOORED, 2023-11-07T19:12:19.886Z, lengthErrs=4, latLonErrs=0, broadcastCount=8386, lastRx=1.514s, numberObserved=10, averageRxRateMillis=24.181s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=17.6°C, Press=1020.5mb, Wind Speed=1.52kn, Wind Dir=354.1°. Heading=62.4°		☒
UBLOX GPS	2023-11-07T19:12:24Z@36.8024507,-121.7871685,lastRx=0.227s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.591s, lastValidFix=2023-11-07T19:12:24Z@36.8024507,-121.7871685, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat=sma=10.20,std=0.53,min=9.00,max=11.00,n=300,hdop=sma=0.94, std=0.10,min=0.88,max=1.11,n=300,altitude:sma=1.76,std=0.54,min=0.40,max=3.00,n=300		☒
Airmar GPS	2023-11-07T19:12:23.600Z@36.802455,-121.787165,lastRx=0.609s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.177s, lastValidFix=2023-11-07T19:12:23.600Z@36.802455,-121.787165, gpsWatchdogFailureCounter=0, ggaQCount=2=300,numSat=sma=9.19,std=0.39,min=9.00,max=10.00,n=300,hdop=sma=1.19, std=0.05,min=1.10,max=1.30,n=300,altitude:sma=6.90,std=0.96,min=5.50,max=8.30,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

Hansen was unnavigable during its last deployment and had to be recovered early. LR is not sure what happened but recommended cycling power to umbilical if this happens again. Compasses recalibrated and I did multiple hard resets on teh vehicle. Navigation tested throughly on shore and it looks good!

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