

SV3 Pre-Launch Checklist

Date	2023-10-30T15:46:24.328Z	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, ThrusterAdjuster Not running: GPSasRudderCompass, RudderParametersManager

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (2d20h11m59.033s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060022730, starts=1, r=8, w=3225, sessionAttempts=3790, sessionErrs=557, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.2 (i=0), 0 queued msgs state=TALKING, sent=3225, lastTx=6.148s, avgTxSize=127.18, totalTx=390.445kB, received=8, lastRx=2d14h47m58.117s, totalRx=0.345kB, powerState=ON (2d20h11m30.004s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]0 blocked messages, averageMessageQueueRate=43.460s, sent=3225, totalBytesSent=390.445kB, received=8, totalBytesReceived=0.345kB, lastRx=2d14h47m58.106s, 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=8, #handled=8, lastRx=rx=2023-10-		☒
Location	Using GPSUblox, declination=12.643164, failoverCounter=1, timeLastSwitchedGps=2023-10-27T19:36:33Z, clockDt=1.632s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.6 4 hours	☒

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	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	JRF APU			☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
S4	Airmar			☒
Event definitions		Compare against standard list	Need to work on this...	☐
Vehicle and tracker op area defined		Note area name(s) and enable alarms	Need to work on this...	☐
Escalation list created/populated			Need to work on this...	☐

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	1484.107		☒

Solar Power Indicators: > 0	7.496 0.0 7.805 8.49	// // // //		☒
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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=0x3332471430393232001a0024 On=Y	OK	16.1	112.3	Uptime: 2 days, 20:13:32		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	16.5	280.7	Uptime: 2 days, 20:06:30		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=4, HW_SerNum=0x33324703313238340031002d On=Y	OK	14.0	109.1	Uptime: 2 days, 20:05:54		☒

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	448.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-10-30T15:46:20.009Z,desiredHeading=314.9,compass=30.9,rack=-12.9,post=-14.4rudderSt	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 (2d20h9m36.879s), 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 338412569 (CALLIE). Pos=36.802600, -121.785920. t=36:0:NOT_DEFINED, 2023-10-30T15:46:12.014Z, lengthErrs=12, latlonErrs=0, broadcastCount=22139, lastRx=15.503s, numberObserved=11, averageRxRateMillis=3.760s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=11.8°C, Press=1021.1mb, Wind Speed=2.22kn, Wind Dir=104.2°. Heading=48.3°		☒
UBLOX GPS	2023-10-30T15:46:29Z@36.8024587,-121.7871158,lastRx=0.481s, quality=100, timeout=1m, nmeaValid=true, clockDt=1.473s, lastValidFix=2023-10-30T15:46:29Z@36.8024587,-121.7871158, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.48,std=0.50,min=10.00,max=11.00,n=300,hdop:sma=0.82,std=0.04,min=0.77,max=0.90,n=300,altitude:sma=2.18,std=0.64,min=1.20,max=3.60,		☒
Airmar GPS	2023-10-30T15:46:28.690Z@36.8024633,-121.78713,lastRx=0.729s, quality=80, timeout=5m, nmeaValid=true, clockDt=1.149s, lastValidFix=2023-10-30T15:46:28.690Z@36.8024633,-121.78713, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,n=300,hdop:sma=0.80,std=0.00,min=0.80,max=0.80,n=300,altitude:sma=7.07,std=0.26,min=6.60,max=7.50,		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
Obstacle Avoidance Status	Enabled		☒
Check alarms	*Out of bounds" red. All yellow/green		☒

General Comments

Nav issues on last mission due to comms dropouts to thruder. Thruder replaced with spare. Also noticed corrosion/electrolysis on CCU port S4 connector. CCU replaced with spare CCU SV3-006.

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