

SV3-038: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2026-01-08T00:56:29.324Z	Glider Name	SV3-209609080(SV3-038)
Tech(s)	cwahl	Organization	MBARI
Project	Bioacoustics	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-038, sn=209609080, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-32-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, LogAlarmReporter, PortForwarder, 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=OFF (4h53m4.343s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working, no cell.	☐
WGMS Iridium	IMEI:300434060625300, starts=1, r=5, w=183, sessionAttempts=197, sessionErrs=11, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.9 (i=5), 0 queued msgs state=TALKING, sent=183, lastTx=10.809s, avgTxSize=136.8B, totalTx=23.027kB, received=5, lastRx=1h48m10.041s, totalRx=0.180kB, powerState=ON (4h52m34.368s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]242 blocked messages, averageMessageQueueRate=1m52.743s, sent=183, totalBytesSent=23.027kB, received=5, totalBytesReceived=0.180kB, lastRx=1h48m10.087s, 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=5, #handled=5, lastRx=rx=2026-01-07T23:08:19.378Z, receiver=iridiumModem,		☒
Location	Using GPSublox, declination=12.432508, failoverCounter=1, timeLastSwitchedGps=2026-01-07T20:06:03Z, clockDt=0.479s		☒
Tracker telemetry received	Battery (Volts) 15.9 volts Report Rate 4 hours	batteries replaced for 2026	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-038			☒
Float name	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		☒
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	1506.212	//		☒
Solar Power Indicators: > 0	0.32 0.0 0.507 0.436	// // // //		☒

Item/Procedure	Readings					Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime			
Domain_Name=Host, Node=1, HW_SerNum=0x333247093236303200430026 On=Y	OK //	22.7 //	114.0 //	Uptime: 0 days, 04:57:10 //			☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK //	20.0 //	114.5 //	Uptime: 0 days, 04:58:59 //			☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK //	16.7 //	257.4 //	Uptime: 0 days, 04:49:46 //			☒

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	450.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2026-01-08T00:56:27.971Z,desiredHeading=287.4,compass=286.4,rack=0.7,post=-1.5rudderStat	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)	36.797, 121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (4h50m15.102s), 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 368159560 (NOVA). Pos=36.802185, -121.784917. t=37:0:NOT_DEFINED, 2026-01-08T00:56:13.734Z, lengthErrs=1, latlonErrs=0, broadcastCount=1267, lastRx=22.755s, numberObserved=9, averageRxRateMillis=3.892s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=12.4°C, Press=1017.6mb, Wind Speed=5.91kn, Wind Dir=356.5°. Heading=233.0° //		☒

UBLOX GPS	2026-01-08T00:56:37Z@36.8022838,-121.7871013,lastRx=0.005s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.441s, lastValidFix=2026-01-08T00:56:37Z@36.8022838,-121.7871013, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.06,std=0.45,min=10.00,max=12.00,n=300,hdop:sma=0.83,std=0.04,min=0.81,max=0.93,n=300,altitude:sma=0.79,std=0.75,min=-0.60,max=2.60			
Airmar GPS	2026-01-08T00:56:37Z@36.8021733,-121.786495,lastRx=0.114s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.336s, lastValidFix=2026-01-08T00:56:37Z@36.8021733,-121.786495, gpsWatchdogFailureCounter=0, ggaQCount:1=22,numSat:sma=3.82,std=0.39,min=3.00,max=4.00,n=22,hdop:sma=6.18,std=1.51,min=3.40,max=7.00,n=22,altitude:sma=34.92,std=0.66,min=33.60,max=36.70,n=22			
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

First deployment of 2026. Sealed a couple of dings on Hansen's hull and also replaced Xeos batteries.

Technician Signature: cwahl

- 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