

SV3-038: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2026-04-01T21:11:57.449Z	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 (1d1h52m13s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060625300, starts=1, r=1, w=1315, sessionAttempts=1602, sessionErrs=285, wErrs=0, rErrs=0, cErrs=1, 10m ss avg=4.8 (i=5), 1 queued msgs state=ATTEMPTING, sent=1315, lastTx=1m41.136s, avgTxSize=143.5B, totalTx=178.220kB, received=1, lastRx=1d1h29m40.656s, totalRx=0.038kB, powerState=ON (1d1h51m44.139s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]2 blocked messages, totalMessagesDiscarded=51, averageMessageQueueRate=1m1.894s, sent=1315, totalBytesSent=178.220kB, received=1, totalBytesReceived=0.038kB, lastRx=1d1h29m40.645s, 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=2026-03-31T19:22:03Z, clockDt=3.521s		☒
Location	Using GPSUblox, declination=12.41045, failoverCounter=1, timeLastSwitchedGps=2026-03-31T19:22:03Z, clockDt=3.521s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.8 Volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-038 Hansen Tracker			☒
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
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Battery [Wh] > 700 Wh	1374.006		☒
Solar Power Indicators: > 0	25.47 0.0 31.199 29.077		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x333247093236303200430026 On=Y	OK	31.6	117.1	Uptime: 1 day, 01:53:23		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	28.4	116.9	Uptime: 1 day, 01:54:30		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	20.1	264.6	Uptime: 1 day, 01:46:08		☒

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	447.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2026-04-01T21:11:55.388Z,desiredHeading=355.9,compass=21,rack=-12.9,post=-15.5rudderStat	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 (1d1h49m44.666s), 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 368065530 (STELLA MARINA). Pos=36.801713, -121.787292. t=30:0:NOT_DEFINED, 2026-04-01T21:11:55.027Z, lengthErrs=2, latlonErrs=1, broadcastCount=12584, lastRx=7.460s, numberObserved=13, averageRxRateMillis=5.878s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.9°C, Press=1013.7mb, Wind Speed=9.45kn, Wind Dir=220.7°. Heading=330.6°		☒
UBLOX GPS	2026-04-01T21:12:06Z@36.8024163,-121.7871467,lastRx=0.238s, quality=100, timeout=5m, nmeaValid=true, clockDt=3.496s, lastValidFix=2026-04-01T21:12:06Z@36.8024163,-121.7871467, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.12,std=0.40,min=8.00,max=10.00,n=300,hdop:sma=1.13,std=0.02,min=1.02,max=1.13,n=300,altitude:sma=0.92,std=1.00,min=-1.80,max=2.90,n=300		☒
Airmar GPS	2026-04-01T21:12:05.320Z@36.8023617,-121.7870867,lastRx=0.729s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.773s, lastValidFix=2026-04-01T21:12:05.320Z@36.8023617,-121.7870867, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.95,std=0.57,min=8.00,max=11.00,n=300,hdop:sma=1.09,std=0.04,min=1.00,max=1.40,n=300,altitude:sma=7.40,std=1.10,min=4.60,max=9.90,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

Clear for launch!

Technician Signature:

Note: Once vehicle is launched the following tasks must be completed

1. Clear alarms

2. Log vehide 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