

Readme

SV3 Pre-Launch Checklist

Date	2025-04-15T00:12:00.954Z	Glider Name	SV3-16977098(SV3-034)
Tech(s)	cwahl	Organization	MBARI
Project	KBB Acoustics	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-034, sn=16977098, 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, GPSasRudderCompass, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (4h36m54.011s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Still not working...	☒
WGMS Iridium	IMEI:30043406000860, starts=1, r=2, w=274, sessionAttempts=309, sessionErrs=33, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.1 (i=4), 1 queued msgs state=TALKING, sent=274, lastTx=1m52.230s, avgTxSize=147.7B, totalTx=38.135kB, received=2, lastRx=4h14m34.085s, totalRx=0.076kB, powerState=ON (4h36m27.386s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	totalBytesSent=38.135kB, received=2, totalBytesReceived=0.076kB, lastRx=4h14m34.096s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=2, #handled=2, lastRx=rx=2025-04-14T19:57:26.893Z, receiver=iridiumModem, headerByte=0x0A, length=39],UnsupportedMessageHandler[active=true, #handled=0], minimumMTU=338		☒
Location	Using GPSUblox, declination=12.503079, failoverCounter=1, timeLastSwitchedGps=2025-04-14T19:37:27Z, clockDt=2.988s		☒
Tracker telemetry received	Battery (Volts)15.8 Volts Report Rate4 hours		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-034 Hansen			☒
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	1570.134		☒
Solar Power Indicators: > 0	4.023 0.0 2.976 4.742		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x3332470b32363032001e0022 On=Y	OK	24.6	111.0	Uptime: 0 days, 04:41:10		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK	26.2	116.8	Uptime: 0 days, 04:43:58		☒
Domain_Name=Thrudder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	17.3	268.7	Uptime: 0 days, 04:33:56		☒

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	445.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2025-04-15T00:12:00.306Z,desiredHeading=347.2,compass=12,rack=-11.4,post=-10.7rudderStat	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 (4h34m24.249s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	Not working replace.	☐
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 366934770 (NOAHS ARK). Pos=36.804192, -121.785248. t=30:0:FISHING, 2025-04-15T00:11:58.296Z, lengthErrs=0, latlonErrs=0, broadcastCount=3575, lastRx=5.661s, numberObserved=13, averageRxRateMillis=10.073s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.2°C, Press=1013.4mb, Wind Speed=3.18kn, Wind Dir=240.5°. Heading=324.3°		☒

UBLOX GPS	2025-04-15T00:12:07Z@36.8024328,-121.7871318,lastRx=0.376s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.036s, lastValidFix=2025-04-15T00:12:07Z@36.8024328,-121.7871318, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.66,std=0.47,min=10.00,max=11.00,n=300,hdop:sma=0.99,std=0.00,min=0.98,max=0.99,n=300,altitude:sma=1.46,std=1.08,min=-0.40,max=3.20			
Airmar GPS	2025-04-15T00:12:06.800Z@36.802435,-121.7871633,lastRx=0.498s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.808s, lastValidFix=2025-04-15T00:12:06.800Z@36.802435,-121.7871633, gpsWatchdogFailureCounter=0, ggaQCount:1=300,numSat:sma=9.99,std=0.11,min=9.00,max=10.00,n=300,hdop:sma=1.00,std=0.01,min=1.00,max=1.10,n=300,altitude:sma=-1.30,std=1.06,min=-3.80,max=0.20,			
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

Recovery Float release not working.

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